

# Components

PCB Terminal Blocks  
Interconnection  
Fuses and Fuse-Holders  
LED's and Indicators  
Miniature Switches  
Limit & Safety Switches  
Control Products  
Interface Modules & Supports  
Relay Bases  
Enclosures  
Batteries  
Transformers

**CAMDENBOSS**  
ELECTRONICS & ENCLOSURES

# CAMDENBOSS

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CamdenBoss prides itself on being your Number 1 Electro-Mechanical Partner.

We operate Design, Engineering, Production, Sales, Customer Service and Distribution within totally customer focussed processes supporting our Worldwide Sales network.

We deliver an extensive range of innovative and cost effective Electro-Mechanical components, electronic housings and 19" cabinet solutions globally, capitalising on our 40+ years of heritage.

With over 25% of the UK PCB Terminal Block market, ranging from 2.54mm-10.16mm pitch, wire protected or rising clamp, 4A-57A rated, PCB mounted and pluggable terminal blocks and other interconnection solutions, CamdenBoss has a PCB connection solution for every application.

Electro-mechanical components such as Fuses & Fuse-holders, Batteries, LEDs & Indicators, Miniature Switches, Limit & Safety Switches, DIN Rail mounted Interface Modules, Control Products and Transformers complete our extensive range of components.

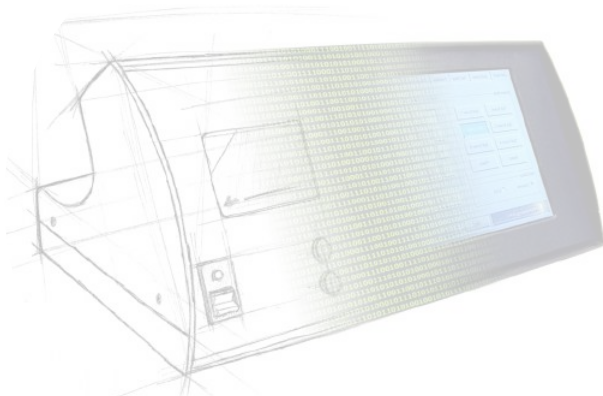
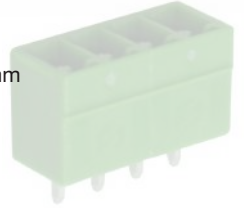
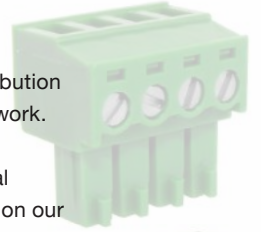
A housing solution can always be found for assemblies with one of our universal housings, hand-held enclosures, die-cast boxes, potting boxes, desktop cases, instrument cases, DIN rail enclosures or interface supports. Our unique and robust Flat-Pack Logic Server Cabinets are efficiently stored, easily moved on site and assembled single-handed in 5 minutes! This range is complemented by our wall mountable WIT racks, 19" enclosures and 19" modular constructed sub-racks.

We offer a full customisation service for all our enclosures; with custom colours, surface coating & RFI shielding, engraving & silk-screening, labels & membrane keypads, as well as milling for all types of connectors and control components.

Custom enclosures are designed, prototyped and manufactured to specific and exacting requirements with rapid lead-times using our Tool-Free Flat Sheet Plastic Technology process that we call Custom Design. This is an innovative solution for unique enclosure requirements that can now be achieved without the expensive tooling costs historically associated with bespoke designs.

For medium and high volume enclosure requirement we offer the complete product design and manufacturing solution, which includes 3D modelling, design, tooling, manufacturing, component sourcing, assembly and packaging.

As market leaders regular new product introductions ensure we always have the latest mainstream technology on offer.



# WELCOME

# TO OUR

# COMPONENTS

# CATALOGUE

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**With a heritage of over 30 years in Electromechanical components, CamdenBoss' components catalogue is the ideal place to look for Terminal Blocks, Interconnect, Fuses, Lead Acid Batteries, Miniature Switches, LEDS, Transformers and Indicators. This book also contains our extensive range of Control Products such as 22mm Switches, Foot Switches, Limit Switches and DIN Rail Interface Supports. All CamdenBoss Components offer the latest market requirements, manufactured and assembled to the highest quality in the UK, Europe and China and all offered with competitive pricing.**

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# PCB TERMINAL BLOCKS

## 3.5mm Pitch Ultra Low Profile Commercial Screw Terminal

- Ultra low profile
- Stainless steel wire protector
- 2-12 pole interlocking
- 4-12 pole pre-assembled
- UL94-V0 flame retardant PA
- Double interlock mechanism for increased strength
- 1mm<sup>2</sup> cable entry
- Anti solder wicking terminals
- Captive screws
- Guided pin alignment
- Standard colour black
- Other colours available
-  approved

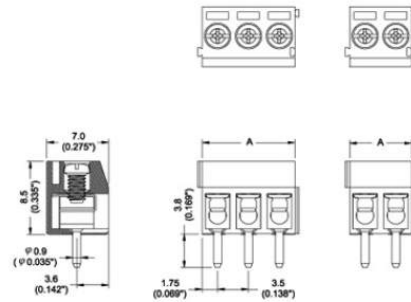
CTB3051



### SPECIFICATION

Rating	6A/300V
Dielectric strength	1.5kV
Working temperature	105°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated copper flash
Screw/torque	Brass
Recommended PCB hole size	M2 steel zinc plated, 0.4Nm max ø1.2mm

TYPE NO.	POLES	LENGTH
CTB3051/2BK	2	7mm
CTB3051/3BK	3	10.5mm
CTB3051/4BK	4	14mm
CTB3051/5BK	5	17.5mm
CTB3051/6BK	6	21mm
CTB3051/7BK	7	24.5mm
CTB3051/8BK	8	28mm
CTB3051/9BK	9	31.5mm
CTB3051/10BK	10	35mm
CTB3051/11BK	11	38.5mm
CTB3051/12BK	12	42mm



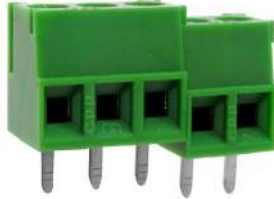
- PCB TERMINAL BLOCKS
- INTER-CONNECTION
- FUSES & FUSE-HOLDERS
- LEDs & INDICATORS
- MINIATURE SWITCHES
- LIMIT & SAFETY SWITCHES
- CONTROL PRODUCTS
- INTERFACE MODULES & SUPPORTS
- RELAY BASES
- ENCLOSURES
- BATTERIES
- TRANSFORMERS

# PCB TERMINAL BLOCKS

## 3.5mm Pitch Ultra Low Profile Rising Clamp Terminal

- 2-12 pole interlocking
- 4-12 pole pre-assembled
- Ultra low profile
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-1.5mm<sup>2</sup> (30-16AWG) solid cable
- 0.2-1.0mm<sup>2</sup> (30-16AWG) stranded cable
- Captive screws
- Guided pin alignment
- Double interlock mechanism for increased strength
- cULus, CE, RoHS, approved

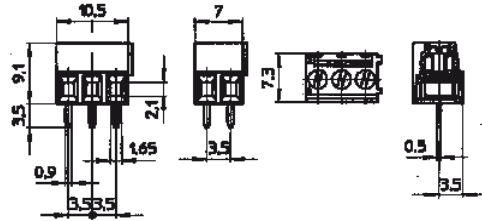
CTB0305



TYPE NO.	POLES	LENGTH
CTB0305/2	2	7mm
CTB0305/3	3	10.5mm
CTB0305/4	4	14mm
CTB0305/5	5	17.5mm
CTB0305/6	6	21mm
CTB0305/7	7	24.5mm
CTB0305/8	8	28mm
CTB0305/9	9	31.5mm
CTB0305/10	10	35mm
CTB0305/11	11	38.5mm
CTB0305/12	12	42mm

### SPECIFICATION

Rating	10A/160V UL=10A/300V, VDE&IMQ=10A/130V
Dielectric strength	2.5kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Screw/torque	M2 steel zinc plated, 0.3Nm
Recommended PCB hole size	ø1.1mm



PCB  
TERMINAL  
BLOCKS

INTER-  
CONNECTION

FUSES &  
FUSE-  
HOLDERS

LEDs &  
INDICATORS

MINIATURE  
SWITCHES

LIMIT &  
SAFETY  
SWITCHES

CONTROL  
PRODUCTS

INTERFACE  
MODULES &  
SUPPORTS

RELAY  
BASES

ENCLOSURES

BATTERIES

TRANS-  
FORMERS

## 3.5mm Pitch Ultra Low Profile 90° Rising Clamp Terminal

- 2-12 pole interlocking
- 4-12 pole pre-assembled
- Ultra low profile
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-1.5mm<sup>2</sup> (30-16AWG) solid cable
- 0.2-1.0mm<sup>2</sup> (30-16AWG) stranded cable
- Captive screws
- Guided pin alignment
- Double interlock mechanism for increased strength
- cULus, CE, RoHS, approved

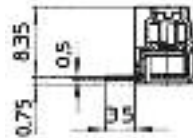
CTB0355



TYPE NO.	POLES	LENGTH
CTB0355/2	2	7mm
CTB0355/3	3	10.5mm
CTB0355/4	4	14mm
CTB0355/5	5	17.5mm
CTB0355/6	6	21mm
CTB0355/7	7	24.5mm
CTB0355/8	8	28mm
CTB0355/9	9	31.5mm
CTB0355/10	10	35mm
CTB0355/11	11	38.5mm
CTB0355/12	12	42mm


### SPECIFICATION

Rating	10A/160V UL=10A/300V, VDE&IMQ=10A/130V
Dielectric strength	
Impulse withstand voltage	2.5kV
Working temperature	
Moulding	UL94-V0 flame retardant PA
Pin/terminal	
Rising clamp	Nickel plated brass
Screw/torque	
Recommended PCB hole size	ø1.1mm



# PCB TERMINAL BLOCKS

## 3.81mm Pitch Ultra Low Profile Rising Clamp Terminal

- 2-3 pole Interlocking
- 4-12 pole solid block
- Ultra low profile
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-1.5mm<sup>2</sup> (30-16AWG) solid cable
- 0.2-1.0mm<sup>2</sup> (30-16AWG) stranded cable
- Captive screws
- Guided pin alignment
- Double interlock mechanism for increased strength
-  approved

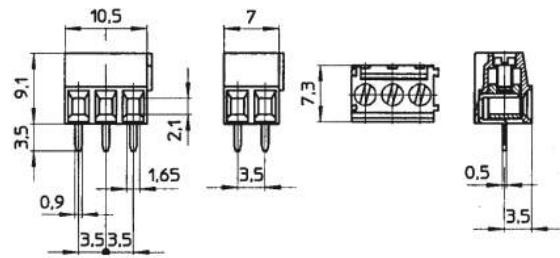
CTB0308




TYPE NO.	POLES	LENGTH
CTB0308/2	2	7.6mm
CTB0308/3	3	11.4mm
CTB0308/4	4	15.2mm
CTB0308/5	5	19.1mm
CTB0308/6	6	22.9mm
CTB0308/7	7	26.7mm
CTB0308/8	8	30.5mm
CTB0308/9	9	34.3mm
CTB0308/10	10	38.1mm
CTB0308/11	11	41.9mm
CTB0308/12	12	45.7mm

### SPECIFICATION

Rating	10A/130V UL=10A, IMQ=10A, VDE=10A
Dielectric strength	1.25kV
Impulse withstand voltage	2.5kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Nickel plated brass
Screw/torque	M2 steel zinc plated, 0.3Nm
Recommended PCB hole size	ø1.1mm



## 3.81mm Pitch Ultra Low Profile 90° Rising Clamp Terminal

- 2-12 pole interlocking
- 4-12 pole solid block
- Ultra low profile
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-1.5mm<sup>2</sup> (30-16AWG) solid cable
- 0.2-1.0mm<sup>2</sup> (30-16AWG) stranded cable
- Captive screws
- Guided pin alignment
- Double interlock mechanism for increased strength
-  approved

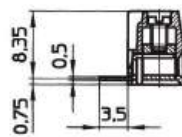
CTB0358



TYPE NO.	POLES	LENGTH
CTB0358/2	2	7.6mm
CTB0358/3	3	11.4mm
CTB0358/4	4	15.2mm
CTB0358/5	5	19.1mm
CTB0358/6	6	22.9mm
CTB0358/7	7	26.7mm
CTB0358/8	8	30.5mm
CTB0358/9	9	34.3mm
CTB0358/10	10	38.1mm
CTB0358/11	11	41.9mm
CTB0358/12	12	45.7mm

### SPECIFICATION


Rating	10A/130V UL=10A/300V, VDE&IMQ=10A/130V
Dielectric strength	1.25kV
Impulse withstand voltage	2.5kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Nickel plated brass
Screw/torque	M2 steel zinc plated, 1.5Nm
Recommended PCB hole size	ø1.1mm



For other dimensions see CTB0308

# PCB TERMINAL BLOCKS

## 5mm Pitch Low Profile Screw Terminal

- 2 & 3 pole interlocking
- 4-12 pole solid block end stackable
- Test probe facility
- Moulded in grey UL94-V0 flame retardant PC
- Wire protector terminals
- 0.5-1.5mm<sup>2</sup> (30-14AWG) solid cable
- 0.5-1.0mm<sup>2</sup> (30-14AWG) stranded cable
- Guided pin alignment
- Anti solder wicking terminal
-  approved

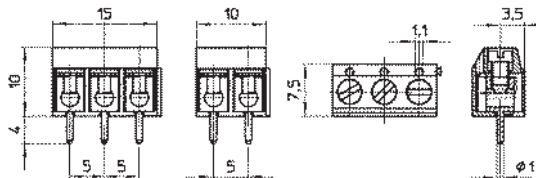
CTB5000



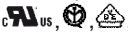
TYPE NO.	POLES	LENGTH
CTB5000/2	2	10mm
CTB5000/3	3	15mm
CTB5000/4	4	20mm
CTB5000/5	5	25mm
CTB5000/6	6	30mm
CTB5000/7	7	35mm
CTB5000/8	8	40mm
CTB5000/9	9	45mm
CTB5000/10	10	50mm
CTB5000/11	11	55mm
CTB5000/12	12	60mm

### SPECIFICATION

Rating	29A/250V UL=14A/300V, VDE&IMQ=13.5A/250V
Dielectric strength	≥2kV
Impulse withstand voltage	4kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Wire protector	Tin plated phosphor bronze
Screw/torque	M2.5 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.1mm



## 5mm Pitch Low Profile 90° Screw Terminal

- 2 & 3 pole interlocking
- 4-12 pole solid block
- Test probe facility
- 90° Mounting
- Moulded in grey UL94-V0 flame retardant PC
- Wire protector terminals
- 0.5-1.5mm<sup>2</sup> (30-14AWG) solid cable
- 0.5-1.0mm<sup>2</sup> (30-14AWG) stranded cable
- Anti solder wicking terminal
- Guided pin alignment
-  approved

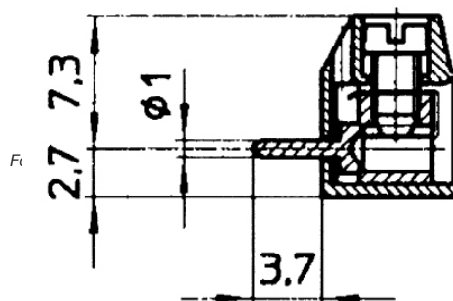
CTB5050



TYPE NO.	POLES	LENGTH
CTB5050/2	2	10mm
CTB5050/3	3	15mm
CTB5050/4	4	20mm
CTB5050/5	5	25mm
CTB5050/6	6	30mm
CTB5050/7	7	35mm
CTB5050/8	8	40mm
CTB5050/9	9	45mm
CTB5050/10	10	50mm
CTB5050/11	11	55mm
CTB5050/12	12	60mm

### SPECIFICATION

Rating	29A/250V UL=14A/300V, VDE&IMQ=13.5A/250V
Dielectric strength	≥2kV
Impulse withstand voltage	4kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Wire protector	Tin plated phosphor bronze
Screw/torque	M2.5 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.1mm



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# PCB TERMINAL BLOCKS

## 5mm Pitch Commercial Low Profile Screw Terminal

- 2-12 pole solid block
- End stackable
- Moulded in green UL94-V0 flame retardent PA
- Wire protector terminals
- 0.5-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.5-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Captive screws
- Anti solder wicking terminal
- Guided pin alignment
-  approved

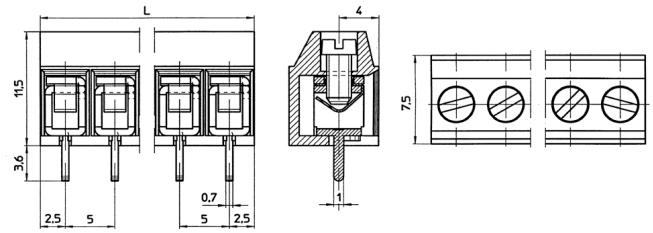
CTB55VG



TYPE NO.	POLES	LENGTH
CTB55VG/2	2	10mm
CTB55VG/3	3	15mm
CTB55VG/4	4	20mm
CTB55VG/5	5	25mm
CTB55VG/6	6	30mm
CTB55VG/7	7	35mm
CTB55VG/8	8	40mm
CTB55VG/9	9	45mm
CTB55VG/10	10	50mm
CTB55VG/11	11	55mm
CTB55VG/12	12	60mm

### SPECIFICATION


Rating	24A/250V UL=16A/300V, VDE&IMQ=24A/250V
Dielectric strength	≥2kV
Impulse withstand voltage	2kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Screw/torque	M2.5 steel zinc plated, 0.4Nm
Recommended PCB hole size	ø1.3mm





# PCB TERMINAL BLOCKS

## 5mm Pitch Low Profile Rising Clamp Terminal

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole solid block end stackable
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-2.5mm<sup>2</sup> (30-14AWG) solid cable
- 0.2-1.5mm<sup>2</sup> (30-14AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved

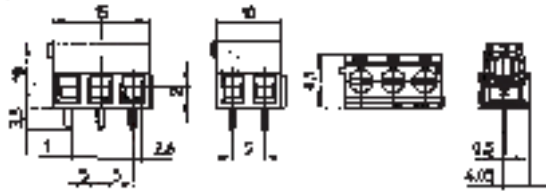
CTB0500




TYPE NO.	POLES	LENGTH
CTB0500/2	2	10mm
CTB0500/3	3	15mm
CTB0500/4	4	20mm
CTB0500/5	5	25mm
CTB0500/6	6	30mm
CTB0500/7	7	35mm
CTB0500/8	8	40mm
CTB0500/9	9	45mm
CTB0500/10	10	50mm
CTB0500/11	11	55mm
CTB0500/12	12	60mm

### SPECIFICATION

Rating	14A/250V UL=14A/300V, VDE&IMQ=14A/250V
Dielectric strength	≥2kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



## 5mm Pitch Low Profile 90° Rising Clamp Terminal

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole solid block and end stackable
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-2.5mm<sup>2</sup> (30-14AWG) solid cable
- 0.2-1.5mm<sup>2</sup> (30-14AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved

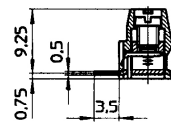
CTB0550



TYPE NO.	POLES	LENGTH
CTB0550/2	2	10mm
CTB0550/3	3	15mm
CTB0550/4	4	20mm
CTB0550/5	5	25mm
CTB0550/6	6	30mm
CTB0550/7	7	35mm
CTB0550/8	8	40mm
CTB0550/9	9	45mm
CTB0550/10	10	50mm
CTB0550/11	11	55mm

### SPECIFICATION

Rating	14A/250V UL=14A/300V, VDE&IMQ=14A/250V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



For other dimensions see CTB0500

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# PCB TERMINAL BLOCKS

## 5mm Pitch Low Profile 45° Rising Clamp Terminal

- 2 & 3 pole interlocking
- 4-12 pole pre-assembled
- 45° mounting
- Moulded in grey UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Captive screw
-  approved

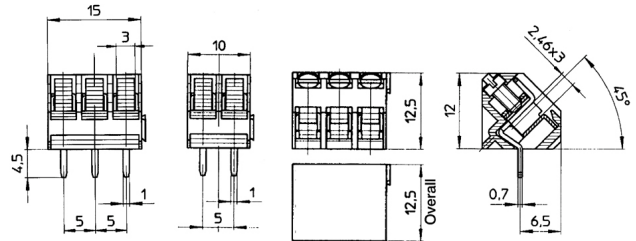
CTB3000




TYPE NO.	POLES	LENGTH
CTB3000/2	2	10mm
CTB3000/3	3	15mm
CTB3000/4	4	20mm
CTB3000/5	5	25mm
CTB3000/6	6	30mm
CTB3000/7	7	35mm
CTB3000/8	8	40mm
CTB3000/9	9	45mm
CTB3000/10	10	50mm
CTB3000/11	11	55mm
CTB3000/12	12	60mm

### SPECIFICATION

Rating	24A/160V UL=16A/300V, VDE&IMQ=24A/130V
Dielectric strength	≥1.25kV
Impulse withstand voltage	2.5kV-
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.4Nm
Recommended PCB hole size	ø1.3mm



## 5mm Pitch Standard Profile Screw Terminal

- 2 & 3 pole interlocking
- 4-12 pole solid block end stackable
- Guided pin alignment
- Moulded in grey UL94-V0 flame retardant PC
- Wire protector terminals
- 0.5-4.0mm<sup>2</sup> (30-14AWG) solid cable
- 0.5-2.5mm<sup>2</sup> (30-14AWG) stranded cable
- Anti solder wicking terminals
-  approved

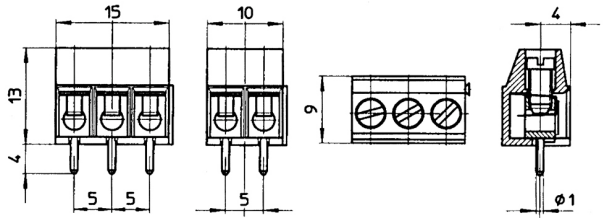
CTB1000



TYPE NO.	POLES	LENGTH
CTB1000/2	2	10mm
CTB1000/3	3	15mm
CTB1000/4	4	20mm
CTB1000/5	5	25mm
CTB1000/6	6	30mm
CTB1000/7	7	35mm
CTB1000/8	8	40mm
CTB1000/9	9	45mm
CTB1000/10	10	50mm
CTB1000/11	11	55mm
CTB1000/12	12	60mm

### SPECIFICATION

Rating	24A/250V UL=16A/300V, VDE&IMQ=24A/450V
Dielectric strength	≥2.5kV
Impulse withstand voltage	6kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.1mm





# PCB TERMINAL BLOCKS

## 5mm Pitch Standard Profile 90° Screw Terminal

- 2 & 3 pole interlocking
- 2-12 pole solid block end stackable
- Guided pin alignment
- Moulded in grey UL94-V0 flame retardant PC
- Wire protector terminals
- 0.5-4.0mm<sup>2</sup> (30-14AWG) solid cable
- 0.5-2.5mm<sup>2</sup> (30-14AWG) stranded cable
- Anti solder wicking terminals
- cULus, CE, RoHS, approved

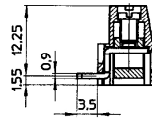
CTB1050



TYPE NO.	POLES	LENGTH
CTB1050/2	2	10mm
CTB1050/3	3	15mm
CTB1050/4	4	20mm
CTB1050/5	5	25mm
CTB1050/6	6	30mm
CTB1050/7	7	35mm
CTB1050/8	8	40mm
CTB1050/9	9	45mm
CTB1050/10	10	50mm
CTB1050/11	11	55mm
CTB1050/12	12	60mm

### SPECIFICATION

Rating	24A/250V UL=16A/300V, VDE&IMQ=24A/450V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.1mm



For other dimensions see CTB1000

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## 5mm Pitch Commercial Standard Profile Screw Terminal

- 2-12 pole solid block
- End stackable
- Moulded in grey UL94-V0 flame retardant PC
- Wire protector terminals
- 0.5-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.5-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Captive screw
- Anti solder wicking terminal
- Guided pin alignment
- 13 & 14 pole available on request
- cULus, CE, RoHS, approved

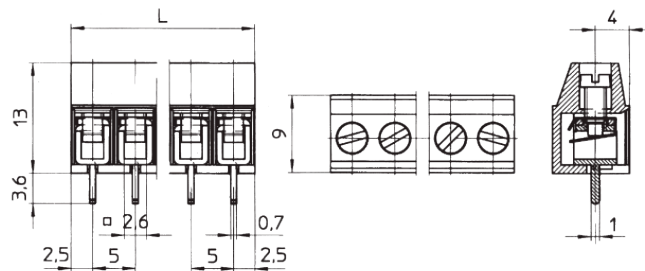
CTB1500



TYPE NO.	POLES	LENGTH
CTB1500/2	2	10mm
CTB1500/3	3	15mm
CTB1500/4	4	20mm
CTB1500/5	5	25mm
CTB1500/6	6	30mm
CTB1500/7	7	35mm
CTB1500/8	8	40mm
CTB1500/9	9	45mm
CTB1500/10	10	50mm
CTB1500/11	11	55mm
CTB1500/12	12	60mm

### SPECIFICATION

Rating	24A/250V UL=18A/300V, VDE&IMQ=24A/250V
Dielectric strength	≥2kV
Impulse withstand voltage	4kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Wire protector	Nickel plated brass
Screw/torque	M2.5 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.1mm



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# PCB TERMINAL BLOCKS

## 5mm Pitch Standard Profile Rising Clamp Terminal

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- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole solid block end stackable
- Moulded in green UL94-V0 flame retardant PA
- Also moulded in grey UL94-V0 flame retardant PA (CTB0101)
- Professional rising clamp terminals
- 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Guided pin alignment
- Captive screws
-  approved

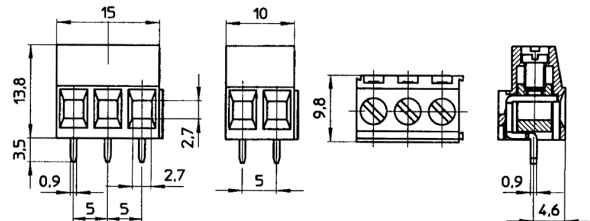
CTB0100




TYPE NO.	POLES	LENGTH
CTB0100/2	2	10mm
CTB0100/3	3	15mm
CTB0100/4	4	20mm
CTB0100/5	5	25mm
CTB0100/6	6	30mm
CTB0100/7	7	35mm
CTB0100/8	8	40mm
CTB0100/9	9	45mm
CTB0100/10	10	50mm
CTB0100/11	11	55mm
CTB0100/12	12	60mm

### SPECIFICATION

Rating	24A/250V UL=14A/300V, VDE&IMQ=24A/250V
Dielectric strength	≥2kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



## 5mm Pitch Standard Profile 90° Rising Clamp Terminal

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole solid block end stackable
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Guided pin alignment
- Captive screws
-  approved

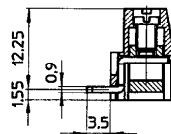
CTB0150



TYPE NO.	POLES	LENGTH
CTB0150/2	2	10mm
CTB0150/3	3	15mm
CTB0150/4	4	20mm
CTB0150/5	5	25mm
CTB0150/6	6	30mm
CTB0150/7	7	35mm
CTB0150/8	8	40mm
CTB0150/9	9	45mm
CTB0150/10	10	50mm
CTB0150/11	11	55mm
CTB0150/12	12	60mm

### SPECIFICATION


Rating	24A/250V UL=14A/300V, VDE&IMQ=24A/250V
Dielectric strength	≥2kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



For other dimensions see CTB0100

# PCB TERMINAL BLOCKS

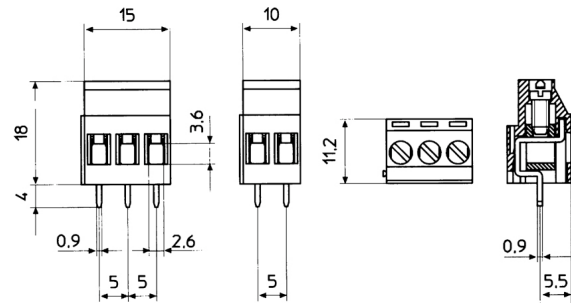
## 5mm Pitch High Power Rising Clamp Terminal

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole solid block
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved




TYPE NO.	POLES	LENGTH
CTB0700/2	2	10mm
CTB0700/3	3	15mm
CTB0700/4	4	20mm
CTB0700/5	5	25mm
CTB0700/6	6	30mm
CTB0700/7	7	35mm
CTB0700/8	8	40mm
CTB0700/9	9	45mm
CTB0700/10	10	50mm
CTB0700/11	11	55mm
CTB0700/12	12	60mm

SPECIFICATION	
Rating	24A/320V UL=16A/300V, VDE&IMQ=24A/450V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



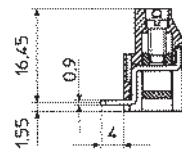
## 5mm Pitch High Power 90° Rising Clamp Terminal

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole solid block
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved



TYPE NO.	POLES	LENGTH
CTB0750/2	2	10mm
CTB0750/3	3	15mm
CTB0750/4	4	20mm
CTB0750/5	5	25mm
CTB0750/6	6	30mm
CTB0750/7	7	35mm
CTB0750/8	8	40mm
CTB0750/9	9	45mm
CTB0750/10	10	50mm
CTB0750/11	11	55mm
CTB0750/12	12	60mm

SPECIFICATION	
Rating	24A/320V UL=16A/300V, VDE&IMQ=24A/450V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



For other dimensions see CTB0700

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# PCB TERMINAL BLOCKS

## 5mm Pitch 36 Pole Rising Clamp Terminal

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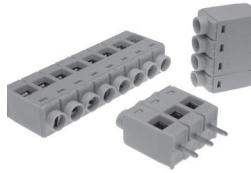
ENCLOSURES

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- Unique 36 pole strip
- Easily cut to required number of poles
- Can be supplied pre-cut
- Anti solder wicking
- Moulded in grey UL94-V0 flame retardant PC
- Professional rising clamp terminals
- 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved

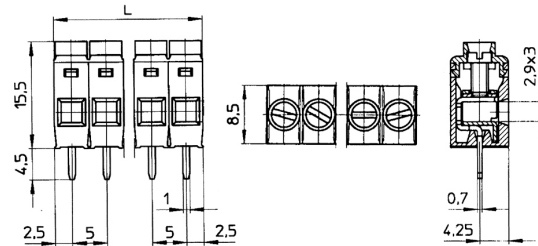
CTB7000




TYPE NO.	POLES	LENGTH
CTB7000/1	1	5mm
CTB7000/2	2	10mm
CTB7000/3	3	15mm
CTB7000/4	4	20mm
CTB7000/5	5	25mm
CTB7000/6	6	30mm
CTB7000/7	7	35mm
CTB7000/8	8	40mm
CTB7000/9	9	45mm
CTB7000/10	10	50mm
CTB7000/11	11	55mm
CTB7000/12	12	60mm
CTB7000/18	18	90mm
CTB7000/36	36	180mm

### SPECIFICATION

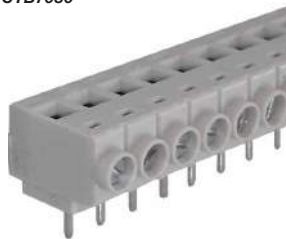
Rating	22A/250V UL=16A/300V, VDE&IMQ=22A/450V
Dielectric strength	≥3kV
Impulse withstand voltage	4kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M2.5 steel zinc plated, 0.4Nm
Recommended PCB hole size	ø1.3mm



## 5mm Pitch 36 Pole 90° Rising Clamp Terminal

- Unique 36 pole strip
- Easily cut to required number of poles
- Can be supplied pre-cut
- Anti solder wicking
- Moulded in grey UL94-V0 flame retardant PC
- Professional rising clamp terminals
- 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved

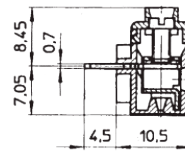
CTB7050



TYPE NO.	POLES	LENGTH
CTB7050/1	1	5mm
CTB7050/2	2	10mm
CTB7050/3	3	15mm
CTB7050/4	4	20mm
CTB7050/5	5	25mm
CTB7050/6	6	30mm
CTB7050/7	7	35mm
CTB7050/8	8	40mm
CTB7050/9	9	45mm
CTB7050/10	10	50mm
CTB7050/11	11	55mm
CTB7050/12	12	60mm
CTB7050/18	18	90mm
CTB7050/36	36	180mm

### SPECIFICATION


Rating	22A/250V UL=16A/300V, VDE&IMQ=22A/450V
Dielectric strength	≥3kV
Impulse withstand voltage	4kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M2.5 steel zinc plated, 0.4Nm
Recommended PCB hole size	ø1.3mm



For other dimensions see CTB7000

# PCB TERMINAL BLOCKS

## 5mm Pitch Horizontal Access Inline Screw PCB Terminal

- 1 to 24 pole solid block terminals in 5mm pitch
- Screw clamp system provides same-side access to terminal screws as wire entry
- Useful in applications with restricted vertical access, e.g. covered enclosures
- Moulded in green UL94-V0 flame retardant PA66
- 0.2-4.0mm<sup>2</sup> (28-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (28-12AWG) stranded cable
- Double row pins for enhanced board stability
-  approved

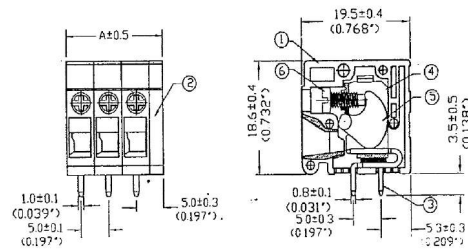
CTB90VG



TYPE NO.	POLES	LENGTH
CTB90VG/2	2	12.5mm
CTB90VG/3	3	17.5mm
CTB90VG/4	4	22.5mm
CTB90VG/5	5	27.5mm
CTB90VG/6	6	32.5mm
CTB90VG/7	7	37.5mm
CTB90VG/8	8	42.5mm
CTB90VG/9	9	47.5mm
CTB90VG/10	10	52.5mm
CTB90VG/11	11	57.5mm
CTB90VG/12	12	62.5mm
CTB90VG/13	13	67.5mm
CTB90VG/14	14	72.5mm
CTB90VG/15	15	77.5mm
CTB90VG/16	16	82.5mm
CTB90VG/17	17	87.5mm
CTB90VG/18	18	92.5mm
CTB90VG/19	19	97.5mm
CTB90VG/20	20	102.5mm
CTB90VG/21	21	107.5mm
CTB90VG/22	22	112.5mm
CTB90VG/23	23	117.5mm
CTB90VG/24	24	122.5mm

### SPECIFICATION

Rating	24A/320V UL=24A/320V
Dielectric strength	≥2kV
Impulse withstand voltage	4kV
Working temperature	-40°C to +105°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Cage clamp	Steel, Zinc plated
Screw/torque	M2.6 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm



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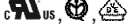
TRANS-  
FORMERS





# PCB TERMINAL BLOCKS

## 5mm Pitch Large Cable Entry Rising Clamp Terminal

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole pre-assembled
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 2x 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 2x 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
-  approved

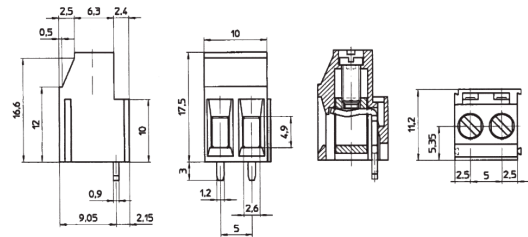
CTB09VG



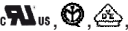
TYPE NO.	POLES	LENGTH
CTB09VG/2	2	10mm
CTB09VG/3	3	15mm
CTB09VG/4	4	20mm
CTB09VG/5	5	25mm
CTB09VG/6	6	30mm
CTB09VG/7	7	35mm
CTB09VG/8	8	40mm
CTB09VG/9	9	45mm
CTB09VG/10	10	50mm
CTB09VG/11	11	55mm
CTB09VG/12	12	60mm

### SPECIFICATION

Rating	24A/250VAC UL=16A/300V, VDE&IMQ=24A/250V
Dielectric strength	≥2kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm



## 5mm Pitch Large Cable Entry 90° Rising Clamp Terminal

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole pre-assembled
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 2x 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 2x 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
-  approved

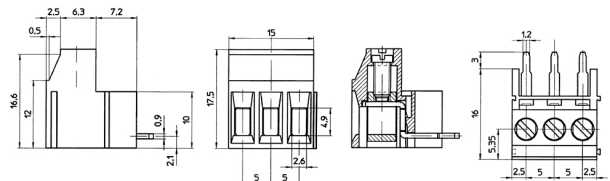
CTB09HG



TYPE NO.	POLES	LENGTH
CTB09HG/2	2	10mm
CTB09HG/3	3	15mm
CTB09HG/4	4	20mm
CTB09HG/5	5	25mm
CTB09HG/6	6	30mm
CTB09HG/7	7	35mm
CTB09HG/8	8	40mm
CTB09HG/9	9	45mm
CTB09HG/10	10	50mm
CTB09HG/11	11	55mm
CTB09HG/12	12	60mm

### SPECIFICATION




Rating	24A/250VAC UL=16A/300V, VDE&IMQ=24A/250V
Dielectric strength	≥2kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm



# PCB TERMINAL BLOCKS

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## 5mm Pitch Double Decker Rising Clamp Terminal

- 4(2x2) & 6(2x3) pole double interlocking mechanism for increased strength
- Double decker
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4mm<sup>2</sup> (30-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Guided pin alignment
-   , approved

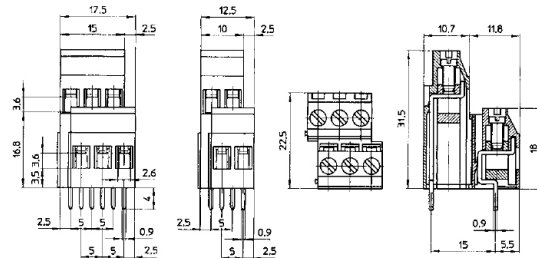
CTBDDVG



TYPE NO.	POLES	LENGTH
CTBDDVG/2	4	12.5mm
CTBDDVG/3	6	17.5mm

### SPECIFICATION

Rating	24A/320V UL=16A/300V, VDE&IMQ=24/450V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel, zinc plated 0.5Nm
Recommended PCB hole size	∅1.3mm



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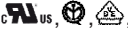
BATTERIES

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# PCB TERMINAL BLOCKS

## 5.08mm Pitch Low Profile Rising Clamp Terminal

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 solid block end stackable
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-2.5mm<sup>2</sup> (30-14AWG) solid cable
- 0.2-1.5mm<sup>2</sup> (30-14AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved

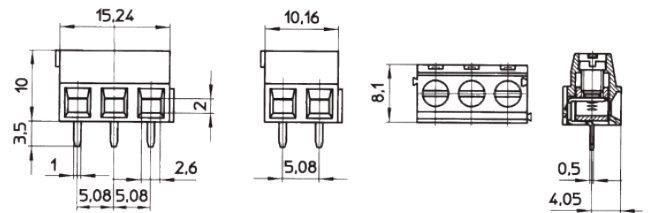
CTB0508




TYPE NO.	POLES	LENGTH
CTB0508/2	2	10.2mm
CTB0508/3	3	15.2mm
CTB0508/4	4	20.3mm
CTB0508/5	5	25.4mm
CTB0508/6	6	30.5mm
CTB0508/7	7	35.6mm
CTB0508/8	8	40.6mm
CTB0508/9	9	45.7mm
CTB0508/10	10	50.8mm
CTB0508/11	11	55.9mm
CTB0508/12	12	61mm

### SPECIFICATION

Rating	14A/250V UL=14A/300V, VDE&IMQ=14A/250V
Dielectric strength	≥2kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm



## 5.08mm Pitch Low Profile 90° Rising Clamp Terminal

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 solid block end stackable
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-2.5mm<sup>2</sup> (30-14AWG) solid cable
- 0.2-1.5mm<sup>2</sup> (30-14AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved

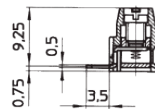
CTB0558



TYPE NO.	POLES	LENGTH
CTB0558/2	2	10.2mm
CTB0558/3	3	15.2mm
CTB0558/4	4	20.3mm
CTB0558/5	5	25.4mm
CTB0558/6	6	30.5mm
CTB0558/7	7	35.6mm
CTB0558/8	8	40.6mm
CTB0558/9	9	45.7mm
CTB0558/10	10	50.8mm
CTB0558/11	11	55.9mm
CTB0558/12	12	61mm

### SPECIFICATION

Rating	14A/250V UL=14A/300V, VDE&IMQ=14A/250V
Dielectric strength	≥2kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm

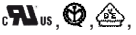


For other dimensions see CTB0508



# PCB TERMINAL BLOCKS

## 5.08mm Pitch Low Profile 45° Rising Clamp Terminal

- 2 & 3 pole interlocking
- 4-12 pole pre-assembled
- 45° mounting
- Moulded in grey UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Captive screw
-  approved

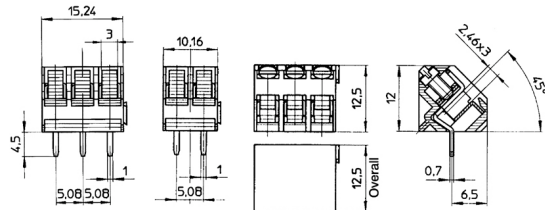
CTB3008



TYPE NO.	POLES	LENGTH
CTB3008/2	2	10.2mm
CTB3008/3	3	15.2mm
CTB3008/4	4	20.3mm
CTB3008/5	5	25.4mm
CTB3008/6	6	30.5mm
CTB3008/7	7	35.6mm
CTB3008/8	8	40.64mm
CTB3008/9	9	45.7mm
CTB3008/10	10	50.8mm
CTB3008/11	11	55.9mm
CTB3008/12	12	61mm

### SPECIFICATION

Rating	24A/160V UL=16A/300V, VDE&IMQ=24A/130V
Dielectric strength	≥1.25kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



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# PCB TERMINAL BLOCKS

## 5.08mm Pitch Standard Profile Rising Clamp Terminal

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole solid block end stackable
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Guided pin alignment
- Captive screws
-  approved

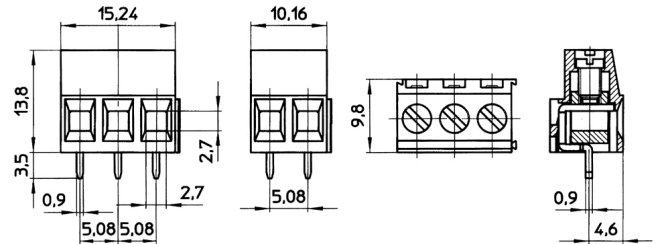
CTB0108




TYPE NO.	POLES	LENGTH
CTB0108/2	2	10.2mm
CTB0108/3	3	15.2mm
CTB0108/4	4	20.3mm
CTB0108/5	5	25.4mm
CTB0108/6	6	30.5mm
CTB0108/7	7	35.6mm
CTB0108/8	8	40.6mm
CTB0108/9	9	45.7mm
CTB0108/10	10	50.8mm
CTB0108/11	11	55.9mm
CTB0108/12	12	60mm

### SPECIFICATION

Rating	24A/250V UL=14A/300V, VDE&IMQ=24A/250V
Dielectric strength	≥2kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



## 5.08mm Pitch Standard Profile 90° Rising Clamp Terminal

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole solid block end stackable
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved

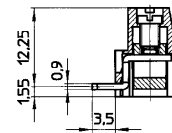
CTB0158



TYPE NO.	POLES	LENGTH
CTB0158/2	2	10.2mm
CTB0158/3	3	15.2mm
CTB0158/4	4	20.3mm
CTB0158/5	5	25.4mm
CTB0158/6	6	30.5mm
CTB0158/7	7	35.60mm
CTB0158/8	8	40.6mm
CTB0158/9	9	45.7mm
CTB0158/10	10	50.8mm
CTB0158/11	11	55.9mm
CTB0158/12	12	61mm

### SPECIFICATION


Rating	24A/250V UL=14A/300V, VDE&IMQ=24A/250V
Dielectric strength	≥2kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



For other dimensions see CTB0108

# PCB TERMINAL BLOCKS

## 5.08mm Pitch High Power Rising Clamp Terminal

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole solid block
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved

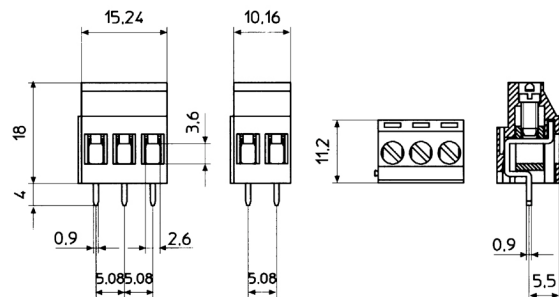
CTB0708



TYPE NO.	POLES	LENGTH
CTB0708/2	2	10.2mm
CTB0708/3	3	15.2mm
CTB0708/4	4	20.3mm
CTB0708/5	5	25.4mm
CTB0708/6	6	30.5mm
CTB0708/7	7	35.6mm
CTB0708/8	8	40.6mm
CTB0708/9	9	45.7mm
CTB0708/10	10	50.8mm
CTB0708/11	11	55.9mm
CTB0708/12	12	61mm

### SPECIFICATION

Rating	24A/320V UL=16A/300V, VDE&IMQ=24A/450V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm



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## 5.08mm Pitch High Power 90° Rising Clamp Terminal

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole solid block
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved

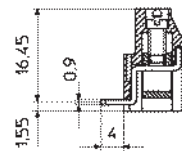
CTB0758



TYPE NO.	POLES	LENGTH
CTB0758/2	2	10.2mm
CTB0758/3	3	15.2mm
CTB0758/4	4	20.3mm
CTB0758/5	5	25.4mm
CTB0758/6	6	30.5mm
CTB0758/7	7	35.6mm
CTB0758/8	8	40.6mm
CTB0758/9	9	45.7mm
CTB0758/10	10	50.8mm
CTB0758/11	11	55.9mm
CTB0758/12	12	61mm

### SPECIFICATION

Rating	24A/320V UL=16A/300V, VDE&IMQ=24A/450V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



For other dimensions see CTB0708



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

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# PCB TERMINAL BLOCKS

## 5.08mm pitch Triple Decker Terminal Block

- 6(3x2) & 9(3x3) pole triple interlocking mechanism for increased strength
- Triple decker
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Guided pin alignment
- Available as a double deck with lower and middle or middle and upper elements only
- Rear interlocks enable right to left or left to right element orientation
-    approved

CTBTDVJ

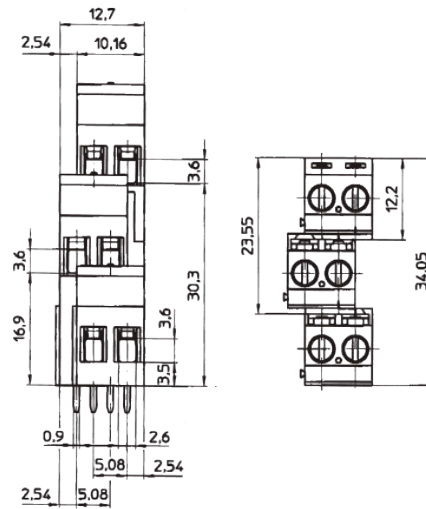


TYPE NO.	POLES	LENGTH
CTBTDVJ/2	6	12.7mm
CTBTDVJ/3	9	17.8mm

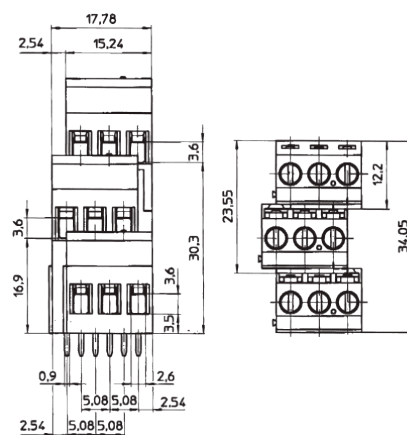
### SPECIFICATION

Rating	20A/320V
	UL=20A/300V, VDE&IMQ=20A/450V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm

CTBTDVJ/2




CTBTDVJ/3



# PCB TERMINAL BLOCKS

## 6.35mm Pitch High Power Rising Clamp Terminal

- 2 & 3 pole double interlocking mechanism for increased strength
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-6.0mm<sup>2</sup> (30-10AWG) solid & stranded cable
- Guided pin alignment
- Captive screws
-  approved

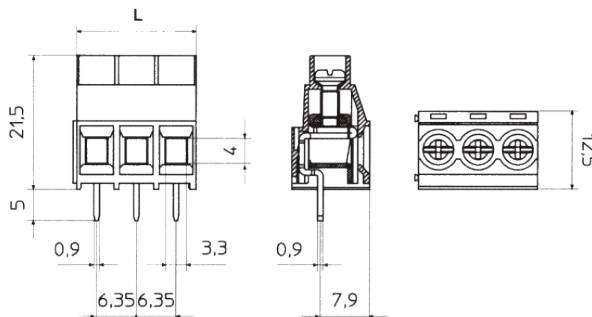
CTB04VY



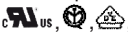
TYPE NO.	POLES	LENGTH
CTB04VY/2	2	12.7mm
CTB04VY/3	3	19.1mm
CTB04VY/4	4	25.4mm
CTB04VY/5	5	31.8mm
CTB04VY/6	6	38.1mm
CTB04VY/7	7	44.5mm
CTB04VY/8	8	50.8mm
CTB04VY/9	9	57.2mm
CTB04VY/10	10	63.5mm
CTB04VY/11	11	69.9mm
CTB04VY/12	12	76.2mm

### SPECIFICATION

Rating	32A/400V UL=24A/300V, VDE&IMQ=32A/450V
Dielectric strength	≥2kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Clamp	Zinc plated steel
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.1mm



## 7.5mm Pitch Commercial Low Profile Screw Terminal

- 2 pole solid block
- End stackable
- Moulded in green UL94-V0 flame retardant PA
- Wire protector terminals
- 0.5-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.5-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Captive screws
- Anti solder wicking terminal
- Guided pin alignment
-  approved

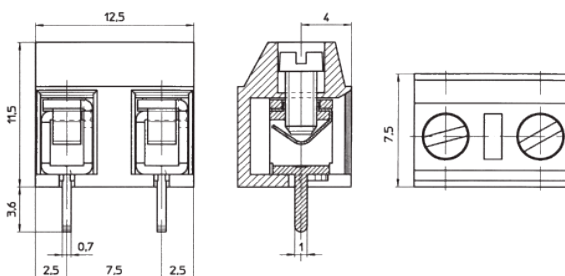
CTB55VK



TYPE NO.	POLES	LENGTH
CTB55VK/2	2	12.5mm

### SPECIFICATION

Rating	24A/500V UL=16A/300V, VDE&IMQ=24A/750V
Dielectric strength	≥2kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Screw/torque	M2.5 steel zinc/colour plated, 0.4Nm
Recommended PCB hole size	ø1.3mm



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# PCB TERMINAL BLOCKS

## 7.5mm Pitch Standard Profile Rising Clamp Terminal

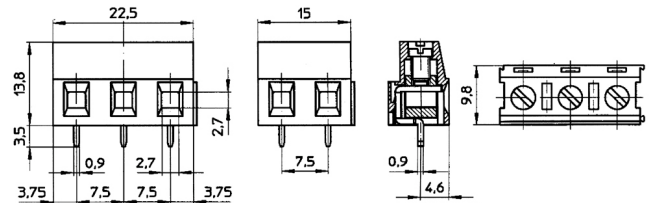
- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole solid block
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Guided pin alignment
-  approved




TYPE NO.	POLES	LENGTH
CTB0110/2	2	15mm
CTB0110/3	3	22.5mm
CTB0110/4	4	30mm
CTB0110/5	5	37.5mm
CTB0110/6	6	45mm
CTB0110/7	7	52.5mm
CTB0110/8	8	60mm
CTB0110/9	9	67.5mm
CTB0110/10	10	75mm
CTB0110/11	11	82.5mm
CTB0110/12	12	90mm

### SPECIFICATION

Rating	24A/500V
	UL=14A/300V, VDE&IMQ=24A/750V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



## 7.5mm Pitch Standard Profile 90° Rising Clamp Terminal

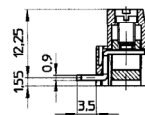
- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole pre-assembled
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Guided pin alignment
-  approved



TYPE NO.	POLES	LENGTH
CTB0115/2	2	15mm
CTB0115/3	3	22.5mm
CTB0115/4	4	30mm
CTB0115/5	5	37.5mm
CTB0115/6	6	45mm
CTB0115/7	7	52.5mm
CTB0115/8	8	60mm
CTB0115/9	9	67.5mm
CTB0115/10	10	75mm
CTB0115/11	11	82.5mm
CTB0115/12	12	90mm

### SPECIFICATION


Rating	24A/750V
	UL=14A/300V, VDE&IMQ=24A/750V
Dielectric strength	≥3kV
Insulation resistance	≥5MΩ
Working temperature	125°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



For other dimensions see CTB0110

# PCB TERMINAL BLOCKS

## 7.5mm Pitch High Power Rising Clamp Terminal

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole pre-assembled
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved

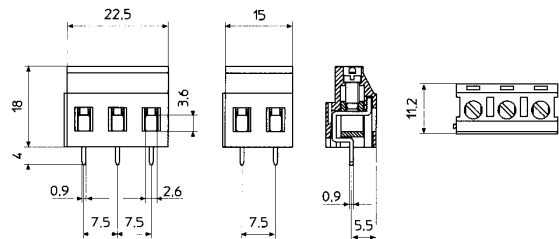
CTB07VK




TYPE NO.	POLES	LENGTH
CTB07VK/2	2	15mm
CTB07VK/3	3	22.5mm
CTB07VK/4	4	30mm
CTB07VK/5	5	37.5mm
CTB07VK/6	6	45mm
CTB07VK/7	7	52.5mm
CTB07VK/8	8	60mm
CTB07VK/9	9	67.5mm
CTB07VK/10	10	75mm
CTB07VK/11	11	82.5mm
CTB07VK/12	12	90mm

### SPECIFICATION

Rating	24A/500V UL=16A/300V, VDE&IMQ=24A/750V
Dielectric strength	≥2.5kV
Impulse strength	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



## 7.5mm Pitch High Power 90° Rising Clamp Terminal

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole pre-assembled
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved

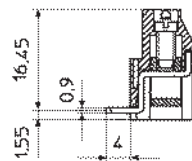
CTB07HK



TYPE NO.	POLES	LENGTH
CTB07HK/2	2	15mm
CTB07HK/3	3	22.5mm
CTB07HK/4	4	30mm
CTB07HK/5	5	37.5mm
CTB07HK/6	6	45mm
CTB07HK/7	7	52.5mm
CTB07HK/8	8	60mm
CTB07HK/9	9	67.5mm
CTB07HK/10	10	75mm
CTB07HK/11	11	82.5mm
CTB07HK/12	12	90mm

### SPECIFICATION

Rating	24A/500V UL=16A/300V, VDE&IMQ=24A/750V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



For other dimensions see CTB07VK

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# PCB TERMINAL BLOCKS

## 7.62mm Pitch Standard Profile Rising Clamp Terminal

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- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole pre-assembled
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Guided pin alignment
-  approved

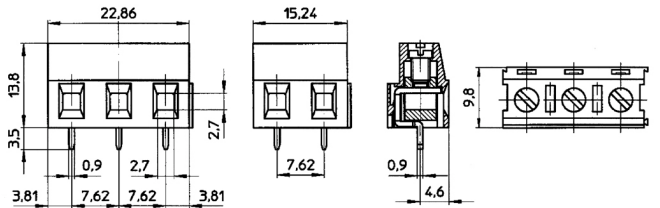
CTB0118




TYPE NO.	POLES	LENGTH
CTB0118/2	2	15.2mm
CTB0118/3	3	22.9mm
CTB0118/4	4	30.5mm
CTB0118/5	5	38.1mm
CTB0118/6	6	45.7mm
CTB0118/7	7	53.3mm
CTB0118/8	8	61mm
CTB0118/9	9	68.6mm
CTB0118/10	10	76.2mm
CTB0118/11	11	83.8mm
CTB0118/12	12	91.4mm

### SPECIFICATION

Rating	24A/500V UL=14A/300V, VDE&IMQ=24A/750V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



## 7.62mm Pitch Standard Profile 90° Rising Clamp Terminal

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole pre-assembled
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Guided pin alignment
-  approved

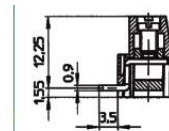
CTB01HL



TYPE NO.	POLES	LENGTH
CTB01HL/2	2	15.2mm
CTB01HL/3	3	22.9mm
CTB01HL/4	4	30.5mm
CTB01HL/5	5	38.1mm
CTB01HL/6	6	45.7mm
CTB01HL/7	7	53.3mm
CTB01HL/8	8	61mm
CTB01HL/9	9	68.6mm
CTB01HL/10	10	76.2mm
CTB01HL/11	11	83.8mm
CTB01HL/12	12	91.4mm

### SPECIFICATION

Rating	24A/500V UL=16A/300V, VDE&IMQ=24A/750V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm




For other dimensions see CTB0118



# PCB TERMINAL BLOCKS

## 7.62mm Pitch High Power Rising Clamp Terminal

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole pre-assembled
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved

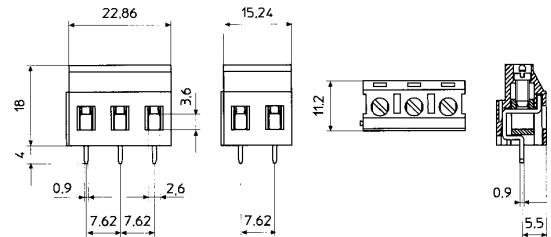
CTB07VL




TYPE NO.	POLES	LENGTH
CTB07VL/2	2	15.2mm
CTB07VL/3	3	22.9mm
CTB07VL/4	4	30.5mm
CTB07VL/5	5	38.1mm
CTB07VL/6	6	45.7mm
CTB07VL/7	7	53.3mm
CTB07VL/8	8	61mm
CTB07VL/9	9	68.6mm
CTB07VL/10	10	76.2mm
CTB07VL/11	11	83.8mm
CTB07VL/12	12	91.4mm

### SPECIFICATION

Rating	24A/500V UL=16A/300V, VDE&IMQ=24A/750V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



## 7.62mm Pitch High Power 90° Rising Clamp Terminal

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole pre-assembled
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved

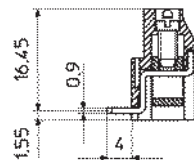
CTB07HL



TYPE NO.	POLES	LENGTH
CTB07HL/2	2	15.2mm
CTB07HL/3	3	22.9mm
CTB07HL/4	4	30.5mm
CTB07HL/5	5	38.1mm
CTB07HL/6	6	45.7mm
CTB07HL/7	7	53.3mm
CTB07HL/8	8	61mm
CTB07HL/9	9	68.6mm
CTB07HL/10	10	76.2mm
CTB07HL/11	11	83.8mm
CTB07HL/12	12	91.4mm

### SPECIFICATION

Rating	24A/750V UL=16A/300V, VDE&IMQ=24A/750V
Dielectric strength	≥3kV
Insulation resistance	≥5MΩ
Working temperature	-20°C to 125°C
Short period	160°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



For other dimensions see CTB07VL

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# PCB TERMINAL BLOCKS

## 10mm Pitch Low Profile Screw Terminal

- 1 & 2 pole interlocking
- 1 pole in 10mm & 15mm length
- 3-12 pole solid block end stackable
- Moulded in grey UL94-V0 flame retardant PC
- Wire protector terminals
- 0.5-1.5mm<sup>2</sup> (30-14AWG) solid cable
- 0.5-1.0mm<sup>2</sup> (30-14AWG) stranded cable
- Guided pin alignment
- Captive screw
- Anti solder wicking terminals
-  approved

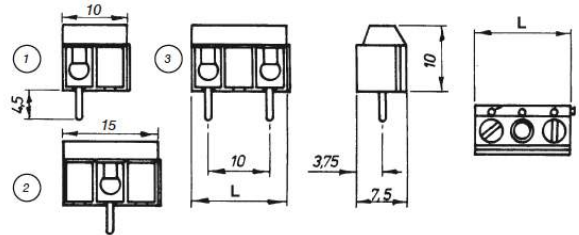
CTB6000



TYPE NO.	POLES	LENGTH
CTB6000/1	1	10mm
CTB6000/1/15	1	15mm
CTB6000/2	2	15mm
CTB6000/3	3	25mm
CTB6000/4	4	35mm
CTB6000/5	5	45mm
CTB6000/6	6	55mm
CTB6000/7	7	65mm
CTB6000/8	8	75mm
CTB6000/9	9	85mm
CTB6000/10	10	95mm
CTB6000/11	11	105mm
CTB6000/12	12	115mm


### SPECIFICATION

Rating	13.5A/500V UL=14A/300V, VDE&IMQ=13.5A/750V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Wire protector	Tin plated, phosphor bronze
Screw/torque	M2.5 steel zinc plated, 0.4Nm
Recommended PCB hole size	ø1.1mm



- 1 - CTB6000/1
- 2 - CTB6000/1/15
- 3 - CTB6000/2

## 10mm Pitch Low Profile 90° Screw Terminal

- 1 & 2 pole interlocking
- 1 pole in 10mm & 15mm length
- 2-12 pole solid block
- Test probe facility
- 90° mounting
- Moulded in grey UL94-V0 flame retardant PC
- Wire protector terminals
- 0.5-1.5mm<sup>2</sup> (30-14AWG) solid cable
- 0.5-1.0mm<sup>2</sup> (30-14AWG) stranded cable
- Guided pin alignment
- Captive screw
- Anti solder wicking terminals
-  approved

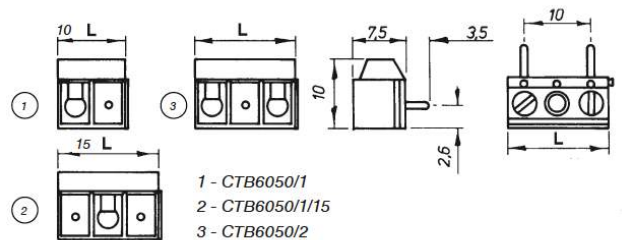
CTB6050



TYPE NO.	POLES	LENGTH
CTB6050/1	1	10mm
CTB6050/1/15	1	15mm
CTB6050/2	2	15mm
CTB6050/3	3	25mm
CTB6050/4	4	35mm
CTB6050/5	5	45mm
CTB6050/6	6	55mm
CTB6050/7	7	65mm
CTB6050/8	8	75mm
CTB6050/9	9	85mm
CTB6050/10	10	95mm
CTB6050/11	11	105mm
CTB6050/12	12	115mm

### SPECIFICATION




Rating	13.5A/500V UL=14A/300V, VDE&IMQ=13.5A/750V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Wire protector	Tin plated, phosphor bronze
Screw/torque	M2.5 steel zinc plated, 0.4Nm
Recommended PCB hole size	ø1.1mm



- 1 - CTB6050/1
- 2 - CTB6050/1/15
- 3 - CTB6050/2

# PCB TERMINAL BLOCKS

## 10mm Pitch Low Profile 45° Rising Clamp Terminal

- 1-12 pole interlocking
- 1 Pole in 10mm & 15mm length
- 45° mounting
- Captive screws
- Moulded in grey UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
-    approved

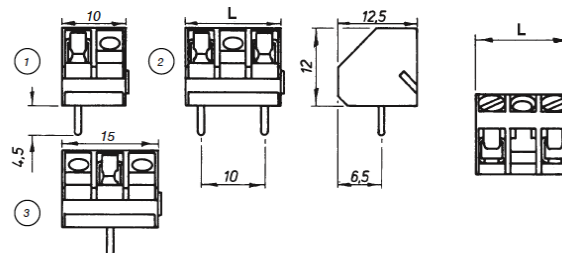
CTB4000



TYPE NO.	POLES	LENGTH
CTB4000/1	1	10mm
CTB4000/1/15	1	15mm
CTB4000/2	2	15mm
CTB4000/3	3	25mm
CTB4000/4	4	35mm
CTB4000/5	5	45mm
CTB4000/6	6	55mm
CTB4000/7	7	65mm
CTB4000/8	8	75mm
CTB4000/9	9	85mm
CTB4000/10	10	95mm
CTB4000/11	11	105mm
CTB4000/12	12	115mm




### SPECIFICATION

Rating	15A/300V UL=16A/300V, VDE&IMQ=24A/750V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Zinc plated steel
Screw/torque	M3 steel zinc plated, 0.4Nm
Recommended PCB hole size	ø1.3mm



1 - CTB4000/1  
2 - CTB4000/1/15  
3 - CTB4000/2

## 10mm Pitch Commercial Low Profile Screw Terminal

- 2-6 pole solid block
- End stackable
- Moulded in green UL94-V0 flame retardant PA
- Wire protector terminals
- 0.5-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.5-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Captive screws
- Anti solder wicking terminal
- Guided pin alignment
-    approved

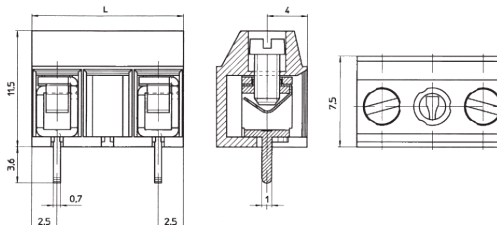
CTB55VN



TYPE NO.	POLES	LENGTH
CTB55VN/2	2	15mm
CTB55VN/3	3	25mm
CTB55VN/4	4	35mm
CTB55VN/5	5	45mm
CTB55VN/6	6	55mm

### SPECIFICATION

Rating	24A/630V UL=16A/300V, VDE&IMQ=24A/750V
Dielectric strength	≥2kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire protector	Tin plated, phosphor bronze
Screw/torque	M2.5 steel zinc plated, 0.4Nm
Recommended PCB hole size	ø1.3mm



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# PCB TERMINAL BLOCKS

## 10mm Pitch Standard Profile Screw Terminal

- 1 & 2 pole interlocking
- 1 pole in 10mm & 15mm length
- 3-12 pole solid block end stackable
- Moulded in grey UL94-V0 flame retardant PC
- Wire protector terminals
- 0.5-4.0mm<sup>2</sup> (30-14AWG) solid cable
- 0.5-2.5mm<sup>2</sup> (30-14AWG) stranded cable
- Guided pin alignment
- Captive screw
- Anti solder wicking terminals
-  approved

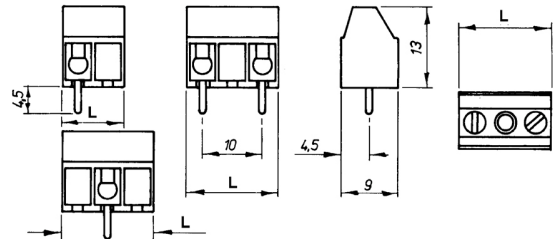
CTB2000



TYPE NO.	POLES	LENGTH
CTB2000/1	1	10mm
CTB2000/1/15	1	15mm
CTB2000/2	2	15mm
CTB2000/3	3	25mm
CTB2000/4	4	35mm
CTB2000/5	5	45mm
CTB2000/6	6	55mm
CTB2000/7	7	65mm
CTB2000/8	8	75mm
CTB2000/9	9	85mm
CTB2000/10	10	95mm
CTB2000/11	11	105mm
CTB2000/12	12	115mm

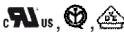
### SPECIFICATION

Rating	24A/500V UL=16A/300V, VDE&IMQ=24A/750V
Dielectric strength	≥2.5kV
Impulse withstand voltage	6kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Wire protector	Tin plated, phosphor bronze
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.1mm



1 - CTB2000/1  
2 - CTB2000/1/15  
3 - CTB2000/2

## 10mm Pitch Standard Profile 90° Screw Terminal

- 1 & 2 pole interlocking
- 3-6 pole solid block end stackable
- 1 pole in 10mm & 15mm length
- Moulded in grey UL94-V0 flame retardant PC
- Wire protector terminals
- 0.5-4.0mm<sup>2</sup> (30-14AWG) solid cable
- 0.5-2.5mm<sup>2</sup> (30-14AWG) stranded cable
- Guided pin alignment
- Captive screw
- Anti solder wicking terminals
-  approved

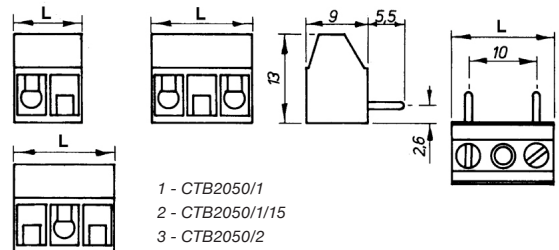
CTB2050



TYPE NO.	POLES	LENGTH
CTB2050/1	1	10mm
CTB2050/1/15	1	15mm
CTB2050/2	2	15mm
CTB2050/3	3	25mm
CTB2050/4	4	35mm
CTB2050/5	5	45mm
CTB2050/6	6	55mm

### SPECIFICATION


Rating	24A/500V UL=16A/300V, VDE&IMQ=24A/750V
Dielectric strength	≥2.5kV
Impulse withstand voltage	6kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Wire protector	Tin plated, phosphor bronze
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.1mm



1 - CTB2050/1  
2 - CTB2050/1/15  
3 - CTB2050/2

# PCB TERMINAL BLOCKS

## 9.52mm Pitch High Power Rising Clamp Terminal

- 2 & 3 pole double interlocking mechanism for increased strength
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-6.0mm<sup>2</sup> (30-10AWG) solid & stranded cable
- Guided pin alignment
- Captive screws
-  approved

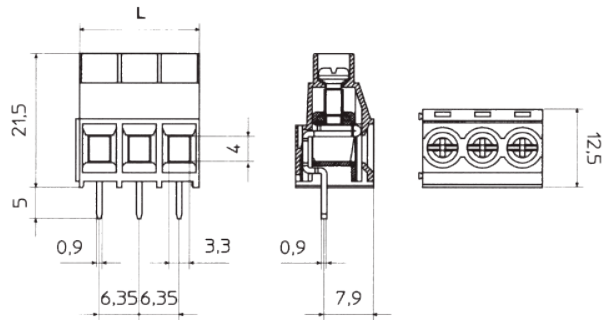
CTB04VZ




TYPE NO.	POLES	LENGTH
CTB04VZ/2	2	19.04mm
CTB04VZ/3	3	28.56mm
CTB04VZ/4	4	38.08mm
CTB04VZ/5	5	47.6mm
CTB04VZ/6	6	57.12mm
CTB04VZ/7	7	66.64mm
CTB04VZ/8	8	76.16mm
CTB04VZ/9	9	85.68mm
CTB04VZ/10	10	95.2mm
CTB04VZ/11	11	104.72mm
CTB04VZ/12	12	114.24mm

### SPECIFICATION

Rating	32A/630V UL=24A/300V, VDE&IMQ=32A/750V
Dielectric strength	≥2kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Clamp	Zinc plated steel
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.1mm



## 10mm Pitch Commercial Standard Profile Screw Terminal

- 1 Pole in 10mm & 15mm length
- 1-12 pole solid block
- Moulded in grey UL94-V0 flame retardant PC
- Wire protector terminals
- 0.5-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.5-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Guided pin alignment
- Captive screws
- Anti solder wicking terminals
-  approved

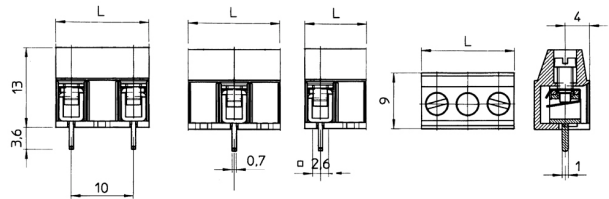
CTB2500



TYPE NO.	POLES	LENGTH
CTB2500/1	1	10mm
CTB2500/1/15	1	15mm
CTB2500/2	2	15mm
CTB2500/3	3	25mm
CTB2500/4	4	35mm
CTB2500/5	5	45mm

### SPECIFICATION

Rating	24A/250V UL=18A/300V, VDE&IMQ=24A/250V
Dielectric strength	≥2.5kV
Impulse withstand voltage	6kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Wire protector	Tin plated, phosphor bronze
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



- 1 - CTB2500/1
- 2 - CTB2500/1/15
- 3 - CTB2500/2

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# PCB TERMINAL BLOCKS

## 10mm Pitch 18 Pole Rising Clamp Terminal

- Unique 18 pole strip
- Easily cut to required number of poles
- Can be supplied pre-cut
- 1 pole in 10mm & 15mm length
- Moulded in grey UL94-V0 flame retardant PC
- Professional rising clamp terminals
- 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Guided pin alignment
- Captive screws
- Anti solder wicking terminals
-    approved

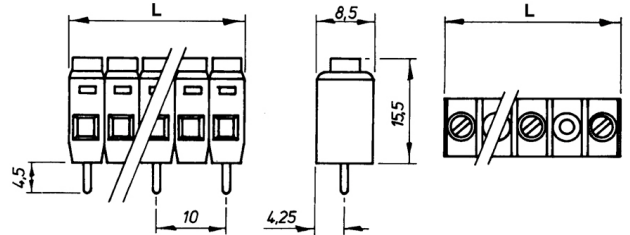
CTB8000






TYPE NO.	POLES	LENGTH
CTB8000/1	1	10mm
CTB8000/1/15	1	15mm
CTB8000/2	2	15mm
CTB8000/3	3	25mm
CTB8000/4	4	35mm
CTB8000/5	5	45mm
CTB8000/6	6	55mm
CTB8000/7	7	65mm
CTB8000/8	8	75mm
CTB8000/9	9	85mm
CTB8000/10	10	95mm
CTB8000/11	11	105mm
CTB8000/12	12	115mm
CTB8000/18	18	175mm

### SPECIFICATION

Rating	22A/500V
	UL=16A/300V, VDE&IMQ=22A/750V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Zinc plated steel
Screw/torque	M2.5 steel zinc plated, 0.4Nm
Recommended PCB hole size	ø1.3mm



## 10mm Pitch 18 Pole 90° Rising Clamp Terminal

- Unique 18 pole strip
- Easily cut to required number of poles
- Can be supplied pre-cut
- 1 pole in 10mm & 15mm length
- Moulded in grey UL94-V0 flame retardant PC
- Professional rising clamp terminals
- 0.2-4.0mm<sup>2</sup> (30-12AWG) solid cable
- 0.2-2.5mm<sup>2</sup> (30-12AWG) stranded cable
- Guided pin alignment
- Captive screws
- Anti solder wicking terminals
-    approved

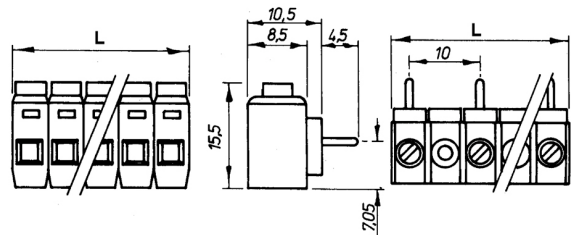
CTB8050



TYPE NO.	POLES	LENGTH
CTB8050/1	1	10mm
CTB8050/1/15	1	15mm
CTB8050/2	2	15mm
CTB8050/3	3	25mm
CTB8050/4	4	35mm
CTB8050/5	5	45mm
CTB8050/6	6	55mm
CTB8050/7	7	65mm
CTB8050/8	8	75mm
CTB8050/9	9	85mm
CTB8050/10	10	95mm
CTB8050/11	11	105mm
CTB8050/12	12	115mm
CTB8050/18	18	175mm

### SPECIFICATION

Rating	22A/500V
	UL=16A/300V, VDE&IMQ=22A/750V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Zinc plated steel
Screw/torque	M2.5 steel zinc plated, 0.4Nm
Recommended PCB hole size	ø1.3mm



# PCB TERMINAL BLOCKS

## 10.16mm Pitch Very High Power Rising Clamp Terminal Block

- 2 & 3 pole double interlocking mechanism for increased strength
- 4 to 12 pole solid block
- Captive screws
- Moulded in grey UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.5-16mm<sup>2</sup> (20-6AWG) solid cable
- 0.5-10mm<sup>2</sup> (20-6AWG) stranded cable



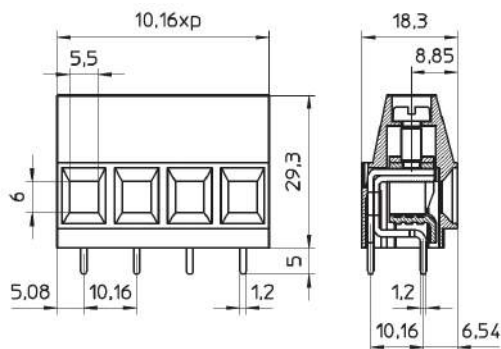
CTB77VP



TYPE NO.	POLES	LENGTH
CTB77VP/2	2	20.3mm
CTB77VP/3	3	30.5mm
CTB77VP/4	4	40.6mm
CTB77VP/5	5	51mm
CTB77VP/6	6	61mm
CTB77VP/7	7	71.1mm
CTB77VP/8	8	81.3mm
CTB77VP/9	9	91.4mm
CTB77VP/10	10	101.6mm
CTB77VP/11	11	111.8mm
CTB77VP/12	12	121.9mm

### SPECIFICATION

Rating	57A/630V UL=58A/300V, VDE&IMQ=57A/750V
Dielectric strength	≥3kV
Impulse withstand voltage	8kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant Lexan
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Zinc plated steel
Screw/torque	M2.5 steel zinc plated, 0.4Nm
Recommended PCB hole size	ø1.5mm



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# PCB TERMINAL BLOCKS

## Polarising Key for Pluggable Terminal Blocks

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- Prevents mis-mating of adjacent connectors
- Orange colour

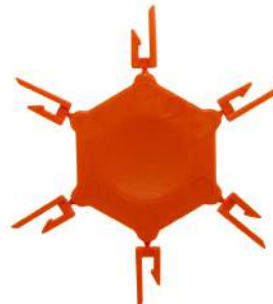
CTB92C



For all pluggable terminal block pitches except 3.5mm and 3.81mm, use CTB92C in female connectors and CTB93C in male connectors

For pluggable terminal block pitches 3.5mm and 3.81mm, use CTB92C in male connectors only


CTB93C





# PCB TERMINAL BLOCKS

## 3.5mm Pitch Pluggable Rising Clamp Terminal

- 2-20 pole solid block
- Pluggable male-female connectors
- Closed headers
- Horizontal female plug style
- Vertical female plug style available on request
- Polarised mouldings
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-1.0mm<sup>2</sup> (30-16AWG) solid & stranded cable
- Anti solder wicking
- Captive screws
- Guided pin alignment
-  approved

### SPECIFICATION

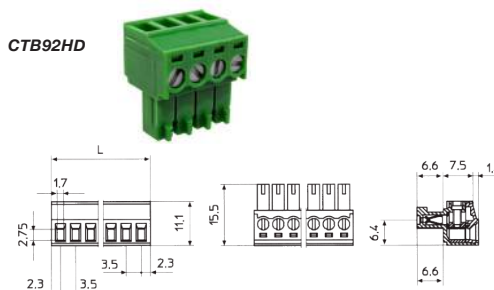
Rating	10A/200V UL=8A/300V, VDE&IMQ=10A/200V
Dielectric strength	≥2.5kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned phosphor bronze
Rising clamp	Nickel copper flash brass
Screw/torque	M2 steel zinc plated, 0.3Nm
Recommended PCB hole size	ø1.2mm

### Female connector

TYPE NO.	POLES	LENGTH
CTB92HD/2	2	7mm
CTB92HD/3	3	10.5mm
CTB92HD/4	4	14mm
CTB92HD/5	5	17.5mm
CTB92HD/6	6	21mm
CTB92HD/7	7	24.5mm
CTB92HD/8	8	28mm
CTB92HD/9	9	31.5mm
CTB92HD/10	10	35mm
CTB92HD/11	11	38.5mm

TYPE NO.	POLES	LENGTH
CTB92HD/12	12	42mm
CTB92HD/13	13	45.5mm
CTB92HD/14	14	49mm
CTB92HD/15	15	52.5mm
CTB92HD/16	16	56mm
CTB92HD/17	17	59.5mm
CTB92HD/18	18	63mm
CTB92HD/19	19	66.5mm
CTB92HD/20	20	70mm

CTB92HD

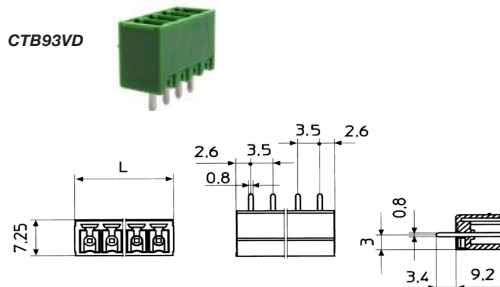


### PCB mounting male vertical (closed ended)

TYPE NO.	POLES	LENGTH
CTB93VD/2	2	8.4mm
CTB93VD/3	3	11.9mm
CTB93VD/4	4	15.4mm
CTB93VD/5	5	18.9mm
CTB93VD/6	6	22.4mm
CTB93VD/7	7	25.9mm
CTB93VD/8	8	29.4mm
CTB93VD/9	9	32.9mm
CTB93VD/10	10	36.4mm
CTB93VD/11	11	39.9mm

TYPE NO.	POLES	LENGTH
CTB93VD/12	12	43.4mm
CTB93VD/13	13	46.9mm
CTB93VD/14	14	50.4mm
CTB93VD/15	15	53.9mm
CTB93VD/16	16	57.4mm
CTB93VD/17	17	60.9mm
CTB93VD/18	18	64.4mm
CTB93VD/19	19	67.9mm
CTB93VD/20	20	71.4mm

CTB93VD

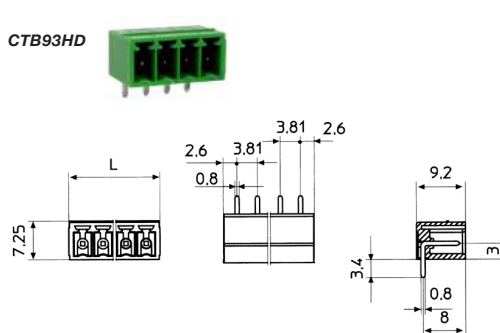


### PCB mounting male horizontal (closed ended)

TYPE NO.	POLES	LENGTH
CTB93HD/2	2	8.4mm
CTB93HD/3	3	11.9mm
CTB93HD/4	4	15.4mm
CTB93HD/5	5	18.9mm
CTB93HD/6	6	22.4mm
CTB93HD/7	7	25.9mm
CTB93HD/8	8	29.4mm
CTB93HD/9	9	32.9mm
CTB93HD/10	10	36.4mm
CTB93HD/11	11	39.9mm

TYPE NO.	POLES	LENGTH
CTB93HD/12	12	43.4mm
CTB93HD/13	13	46.9mm
CTB93HD/14	14	50.4mm
CTB93HD/15	15	53.9mm
CTB93HD/16	16	57.4mm
CTB93HD/17	17	60.9mm
CTB93HD/18	18	64.4mm
CTB93HD/19	19	67.9mm
CTB93HD/20	20	71.4mm

CTB93HD



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# PCB TERMINAL BLOCKS

## 3.81mm Pitch Pluggable Rising Clamp Terminal

- 2-20 pole solid block
- Pluggable male-female connectors
- Closed headers
- Horizontal & vertical female plug styles
- Polarised mouldings
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-1.0mm<sup>2</sup> (30-16AWG)0 solid & stranded cable
- Anti solder wicking
- Captive screws
- Guided pin alignment
-  , approved

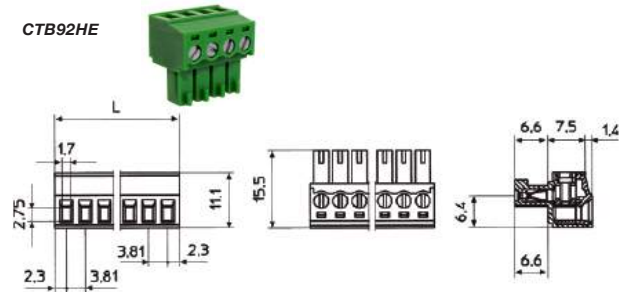
### SPECIFICATION

Rating	10A/200V UL=8A/300V, VDE&IMQ=10A/200V
Dielectric strength	≥1.25kV
Impulse withstand voltage	2.5kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned phosphor bronze
Rising clamp	Nickel copper flash brass
Screw/torque	M2 steel zinc plated, 0.3Nm
Recommended PCB hole size	ø1.2mm

### Female connector

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB92HE/2	2	8.4mm	CTB92HE/12	12	46.5mm
CTB92HE/3	3	12.2mm	CTB92HE/13	13	50.3mm
CTB92HE/4	4	16mm	CTB92HE/14	14	54.1mm
CTB92HE/5	5	19.8mm	CTB92HE/15	15	57.9mm
CTB92HE/6	6	23.7mm	CTB92HE/16	16	61.8mm
CTB92HE/7	7	27.5mm	CTB92HE/17	17	65.6mm
CTB92HE/8	8	31.3mm	CTB92HE/18	18	69.4mm
CTB92HE/9	9	35.1mm	CTB92HE/19	19	73.3mm
CTB92HE/10	10	38.9mm	CTB92HE/20	20	77mm
CTB92HE/11	11	42.7mm			

CTB92HE



### Female connector vertical (standard)

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB92VE/2S	2	8.4mm	CTB92VE/12S	12	46.5mm
CTB92VE/3S	3	12.2mm	CTB92VE/13S	13	50.3mm
CTB92VE/4S	4	16mm	CTB92VE/14S	14	54.1mm
CTB92VE/5S	5	19.8mm	CTB92VE/15S	15	57.9mm
CTB92VE/6S	6	23.7mm	CTB92VE/16S	16	61.8mm
CTB92VE/7S	7	27.5mm	CTB92VE/17S	17	65.6mm
CTB92VE/8S	8	31.3mm	CTB92VE/18S	18	69.4mm
CTB92VE/9S	9	35.1mm	CTB92VE/19S	19	73.3mm
CTB92VE/10S	10	38.9mm	CTB92VE/20S	20	77mm
CTB92VE/11S	11	42.7mm			

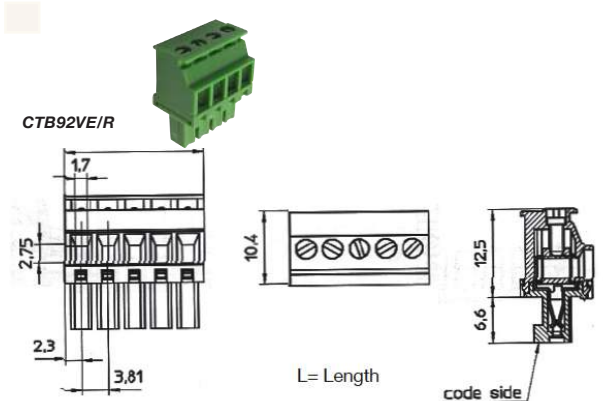
CTB92VE/S



### Female connector vertical (reversed)

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB92VE/2R	2	8.4mm	CTB92VE/12R	12	46.5mm
CTB92VE/3R	3	12.2mm	CTB92VE/13R	13	50.3mm
CTB92VE/4R	4	16mm	CTB92VE/14R	14	54.1mm
CTB92VE/5R	5	19.8mm	CTB92VE/15R	15	57.9mm
CTB92VE/6R	6	23.7mm	CTB92VE/16R	16	61.8mm
CTB92VE/7R	7	27.5mm	CTB92VE/17R	17	65.6mm
CTB92VE/8R	8	31.3mm	CTB92VE/18R	18	69.4mm
CTB92VE/9R	9	35.1mm	CTB92VE/19R	19	73.3mm
CTB92VE/10R	10	38.9mm	CTB92VE/20R	20	77mm
CTB92VE/11R	11	42.7mm			

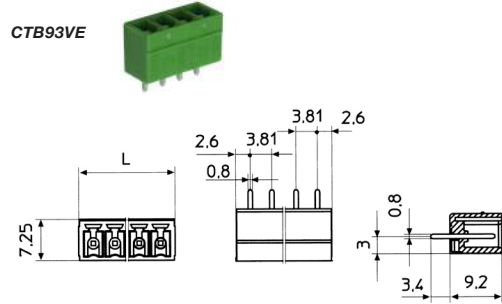
CTB92VE/R



# PCB TERMINAL BLOCKS

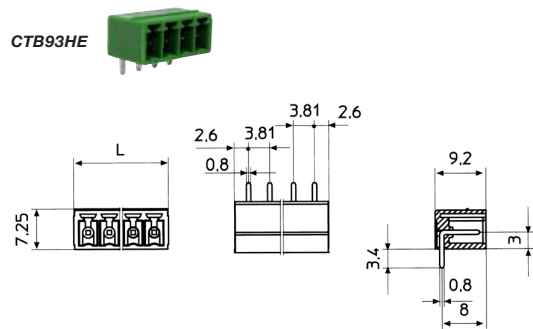
## PCB mounting male vertical (closed ended)

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB93VE/2	2	9mm	CTB93VE/12	12	47.1mm
CTB93VE/3	3	12.8mm	CTB93VE/13	13	50.9mm
CTB93VE/4	4	16.6mm	CTB93VE/14	14	54.7mm
CTB93VE/5	5	20.4mm	CTB93VE/15	15	58.5mm
CTB93VE/6	6	24.3mm	CTB93VE/16	16	62.4mm
CTB93VE/7	7	28.1mm	CTB93VE/17	17	66.2mm
CTB93VE/8	8	31.9mm	CTB93VE/18	18	70mm
CTB93VE/9	9	35.4mm	CTB93VE/19	19	73.8mm
CTB93VE/10	10	39.5mm	CTB93VE/20	20	77.6mm
CTB93VE/11	11	43.3mm			



## PCB mounting male horizontal (closed ended)

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB93HE/2	2	9mm	CTB93HE/12	12	47.1mm
CTB93HE/3	3	12.8mm	CTB93HE/13	13	50.9mm
CTB93HE/4	4	16.6mm	CTB93HE/14	14	54.7mm
CTB93HE/5	5	20.4mm	CTB93HE/15	15	58.5mm
CTB93HE/6	6	24.3mm	CTB93HE/16	16	62.4mm
CTB93HE/7	7	28.1mm	CTB93HE/17	17	66.2mm
CTB93HE/8	8	31.9mm	CTB93HE/18	18	70mm
CTB93HE/9	9	35.4mm	CTB93HE/19	19	73.8mm
CTB93HE/10	10	39.5mm	CTB93HE/20	20	77.6mm
CTB93HE/11	11	43.3mm			



## PCB Mounting Male Double Decker

- Space saving
- Double Deck
- 4-24 pole solid block
- Closed ends
- Coding keys available
- Moulded from green UL94 - V0 flame retardant PA

CTBDD93VE



CTBDD93HE

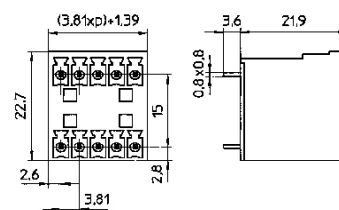


### Vertical

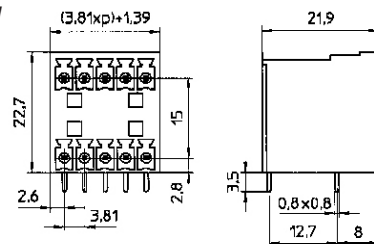
TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTBDD93VE/2	2	9mm	CTBDD93HE/2	2	9mm
CTBDD93VE/3	3	12.8mm	CTBDD93HE/3	3	12.8mm
CTBDD93VE/4	4	16.6mm	CTBDD93HE/4	4	16.6mm
CTBDD93VE/5	5	20.4mm	CTBDD93HE/5	5	20.4mm
CTBDD93VE/6	6	24.30mm	CTBDD93HE/6	6	24.30mm
CTBDD93VE/7	7	28.1mm	CTBDD93HE/7	7	28.1mm
CTBDD93VE/8	8	31.9mm	CTBDD93HE/8	8	31.9mm
CTBDD93VE/9	9	35.7mm	CTBDD93HE/9	9	35.7mm
CTBDD93VE/10	10	39.50mm	CTBDD93HE/10	10	39.50mm
CTBDD93VE/11	11	43.3mm	CTBDD93HE/11	11	43.3mm
CTBDD93VE/12	12	47.1mm	CTBDD93HE/12	12	47.1mm

### Horizontal

### Vertical



### Horizontal



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# PCB TERMINAL BLOCKS

## 5mm Pitch Pluggable Rising Clamp Terminal

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- 2-24 pole solid block
- Pluggable male-female connectors
- Open & closed headers
- Horizontal & vertical female plug styles
- Polarised mouldings
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-2.5mm<sup>2</sup> (30-12AWG) solid & stranded cable
- Anti solder wicking
- Captive screws
- Guided pin alignment
-  approved

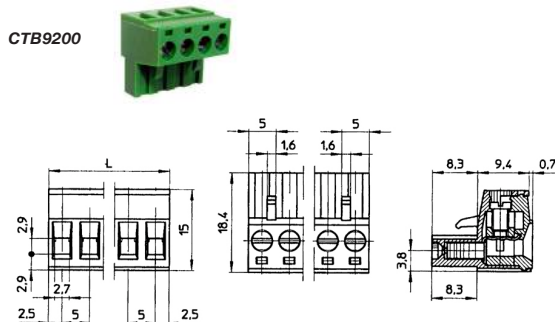
### SPECIFICATION

Rating	12A/320V UL=12A/300V, VDE&IMQ=20A/320V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	100°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned phosphor bronze
Rising clamp	Nickel copper flash brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.4mm

### Female connector

TYPE NO.	POLES	LENGTH
CTB9200/2A	2	10mm
CTB9200/3A	3	15mm
CTB9200/4A	4	20mm
CTB9200/5A	5	25mm
CTB9200/6A	6	30mm
CTB9200/7A	7	35mm
CTB9200/8A	8	40mm
CTB9200/9A	9	45mm
CTB9200/10A	10	50mm
CTB9200/11A	11	55mm
CTB9200/12A	12	60mm
CTB9200/13A	13	65mm

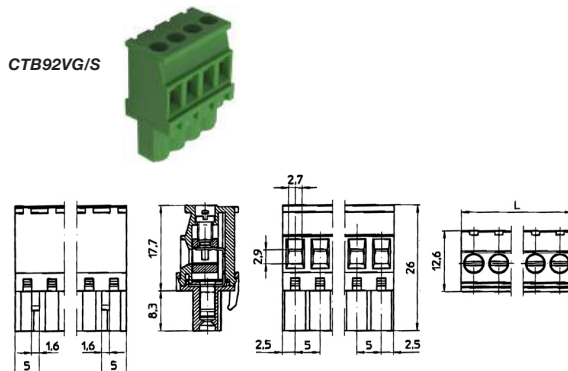
TYPE NO.	POLES	LENGTH
CTB9200/14A	14	70mm
CTB9200/15A	15	75mm
CTB9200/16A	16	80mm
CTB9200/17A	17	85mm
CTB9200/18A	18	90mm
CTB9200/19A	19	95mm
CTB9200/20A	20	100mm
CTB9200/21A	21	105mm
CTB9200/22A	22	110mm
CTB9200/23A	23	115mm
CTB9200/24A	24	120mm



### Female connector vertical (standard)

TYPE NO.	POLES	LENGTH
CTB92VG/2S	2	10mm
CTB92VG/3S	3	15mm
CTB92VG/4S	4	20mm
CTB92VG/5S	5	25mm
CTB92VG/6S	6	30mm
CTB92VG/7S	7	35mm
CTB92VG/8S	8	40mm
CTB92VG/9S	9	45mm
CTB92VG/10S	10	50mm
CTB92VG/11S	11	55mm
CTB92VG/12S	12	60mm
CTB92VG/13S	13	65mm

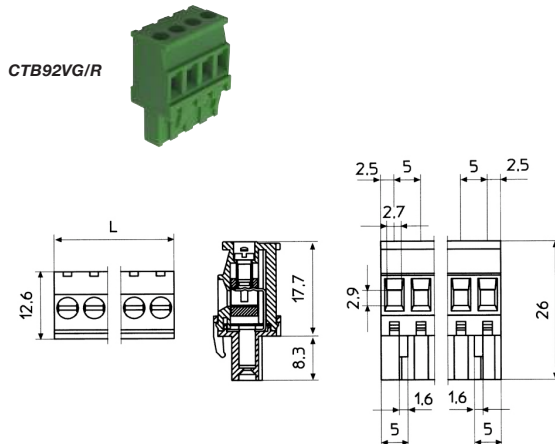
TYPE NO.	POLES	LENGTH
CTB92VG/14S	14	70mm
CTB92VG/15S	15	75mm
CTB92VG/16S	16	80mm
CTB92VG/17S	17	85mm
CTB92VG/18S	18	90mm
CTB92VG/19S	19	95mm
CTB92VG/20S	20	100mm
CTB92VG/21S	21	105mm
CTB92VG/22S	22	110mm
CTB92VG/23S	23	115mm
CTB92VG/24S	24	120mm



### Female connector vertical (reversed)

TYPE NO.	POLES	LENGTH
CTB92VG/2R	2	10mm
CTB92VG/3R	3	15mm
CTB92VG/4R	4	20mm
CTB92VG/5R	5	25mm
CTB92VG/6R	6	30mm
CTB92VG/7R	7	35mm
CTB92VG/8R	8	40mm
CTB92VG/9R	9	45mm
CTB92VG/10R	10	50mm
CTB92VG/11R	11	55mm
CTB92VG/12R	12	60mm
CTB92VG/13R	13	65mm

TYPE NO.	POLES	LENGTH
CTB92VG/14R	14	70mm
CTB92VG/15R	15	75mm
CTB92VG/16R	16	80mm
CTB92VG/17R	17	85mm
CTB92VG/18R	18	90mm
CTB92VG/19R	19	95mm
CTB92VG/20R	20	100mm
CTB92VG/21R	21	105mm
CTB92VG/22R	22	110mm
CTB92VG/23R	23	115mm
CTB92VG/24R	24	120mm

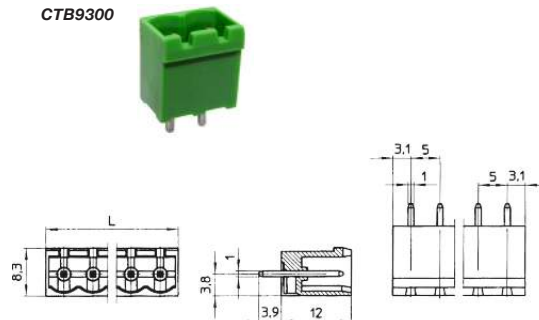


# PCB TERMINAL BLOCKS

## PCB mounting male vertical (closed ended)

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB9300/2A	2	11.2mm	CTB9300/14A	14	71.2mm
CTB9300/3A	3	16.2mm	CTB9300/15A	15	76.2mm
CTB9300/4A	4	21.2mm	CTB9300/16A	16	81.2mm
CTB9300/5A	5	26.2mm	CTB9300/17A	17	86.2mm
CTB9300/6A	6	31.2mm	CTB9300/18A	18	91.2mm
CTB9300/7A	7	36.2mm	CTB9300/19A	19	96.2mm
CTB9300/8A	8	41.2mm	CTB9300/20A	20	101.2mm
CTB9300/9A	9	46.2mm	CTB9300/21A	21	106.2mm
CTB9300/10A	10	51.2mm	CTB9300/22A	22	111.2mm
CTB9300/11A	11	56.2	CTB9300/23A	23	116.2mm
CTB9300/12A	12	61.2mm	CTB9300/24A	24	121.2mm
CTB9300/13A	13	66.2mm			

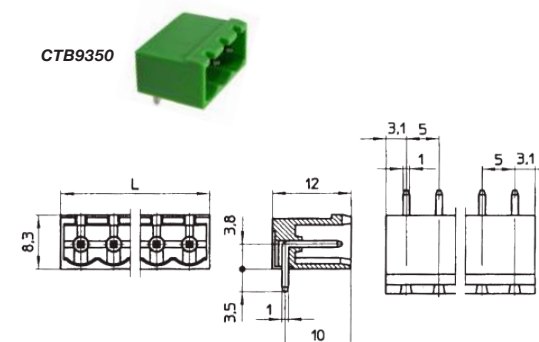
CTB9300



## PCB mounting male horizontal (closed ended)

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB9350/2A	2	11.2mm	CTB9350/14A	14	71.2mm
CTB9350/3A	3	16.2mm	CTB9350/15A	15	76.2mm
CTB9350/4A	4	21.2mm	CTB9350/16A	16	81.2mm
CTB9350/5A	5	26.2mm	CTB9350/17A	17	86.2mm
CTB9350/6A	6	31.2mm	CTB9350/18A	18	91.2mm
CTB9350/7A	7	36.2mm	CTB9350/19A	19	96.2mm
CTB9350/8A	8	41.2mm	CTB9350/20A	20	101.2mm
CTB9350/9A	9	46.2mm	CTB9350/21A	21	106.2mm
CTB9350/10A	10	51.2mm	CTB9350/22A	22	111.2mm
CTB9350/11A	11	56.2	CTB9350/23A	23	116.2mm
CTB9350/12A	12	61.2mm	CTB9350/24A	24	121.2mm
CTB9350/13A	13	66.2mm			

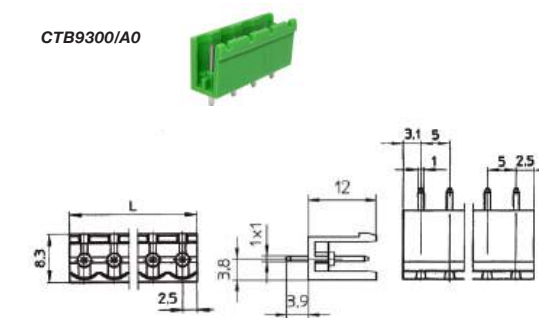
CTB9350



## PCB mounting male vertical (open ended)

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB9300/2AO	2	10mm	CTB9300/14AO	14	70mm
CTB9300/3AO	3	15mm	CTB9300/15AO	15	75mm
CTB9300/4AO	4	20mm	CTB9300/16AO	16	80mm
CTB9300/5AO	5	25mm	CTB9300/17AO	17	85mm
CTB9300/6AO	6	30mm	CTB9300/18AO	18	90mm
CTB9300/7AO	7	35mm	CTB9300/19AO	19	95mm
CTB9300/8AO	8	40mm	CTB9300/20AO	20	100mm
CTB9300/9AO	9	45mm	CTB9300/21AO	21	105mm
CTB9300/10AO	10	50mm	CTB9300/22AO	22	110mm
CTB9300/11AO	11	55mm	CTB9300/23AO	23	115mm
CTB9300/12AO	12	60mm	CTB9300/24AO	24	120mm
CTB9300/13AO	13	65mm			

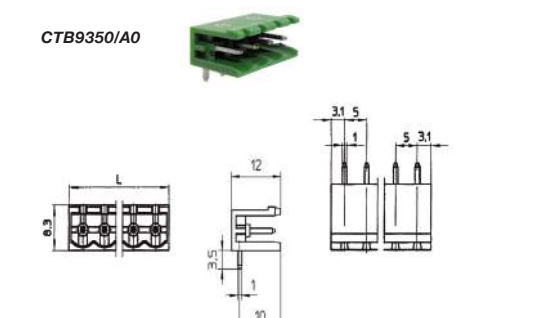
CTB9300/AO



## PCB mounting male horizontal (open ended)

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB9350/2AO	2	10mm	CTB9350/14AO	14	70mm
CTB9350/3AO	3	15mm	CTB9350/15AO	15	75mm
CTB9350/4AO	4	20mm	CTB9350/16AO	16	80mm
CTB9350/5AO	5	25mm	CTB9350/17AO	17	85mm
CTB9350/6AO	6	30mm	CTB9350/18AO	18	90mm
CTB9350/7AO	7	35mm	CTB9350/19AO	19	95mm
CTB9350/8AO	8	40mm	CTB9350/20AO	20	100mm
CTB9350/9AO	9	45mm	CTB9350/21AO	21	105mm
CTB9350/10AO	10	50mm	CTB9350/22AO	22	110mm
CTB9350/11AO	11	55mm	CTB9350/23AO	23	115mm
CTB9350/12AO	12	60mm	CTB9350/24AO	24	120mm
CTB9350/13AO	13	65mm			

CTB9350/AO



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# PCB TERMINAL BLOCKS

## 5.08mm Pitch Pluggable Rising Clamp Terminal

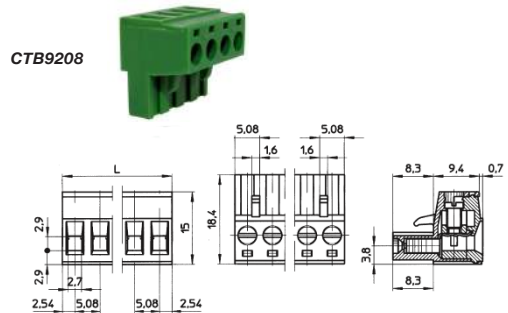
- 2-24 pole solid block
- Pluggable male-female connectors
- Open & closed headers
- Horizontal & vertical female plug styles
- Polarised mouldings
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-2.5mm<sup>2</sup> (30-12AWG) solid & stranded cable
- Anti solder wicking
- Captive screws
- Guided pin alignment
-  approved

### SPECIFICATION

Rating	12A/320V UL=12A/300V, VDE&IMQ=20A/320V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned brass
Rising clamp	Nickel copper flash brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.4mm

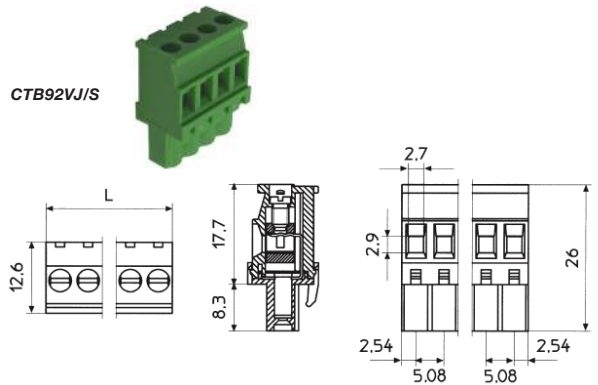
### Female connector

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB9208/2	2	10.2mm	CTB9208/14	14	71.1mm
CTB9208/3	3	15.2mm	CTB9208/15	15	76.2mm
CTB9208/4	4	20.3mm	CTB9208/16	16	81.3mm
CTB9208/5	5	25.4mm	CTB9208/17	17	86.4mm
CTB9208/6	6	30.5mm	CTB9208/18	18	91.4mm
CTB9208/7	7	35.6mm	CTB9208/19	19	96.5mm
CTB9208/8	8	40.6mm	CTB9208/20	20	101.6mm
CTB9208/9	9	45.7mm	CTB9208/21	21	106.7mm
CTB9208/10	10	50.8mm	CTB9208/22	22	111.8mm
CTB9208/11	11	55.9mm	CTB9208/23	23	116.8mm
CTB9208/12	12	61mm	CTB9208/24	24	121.9mm
CTB9208/13	13	66mm			



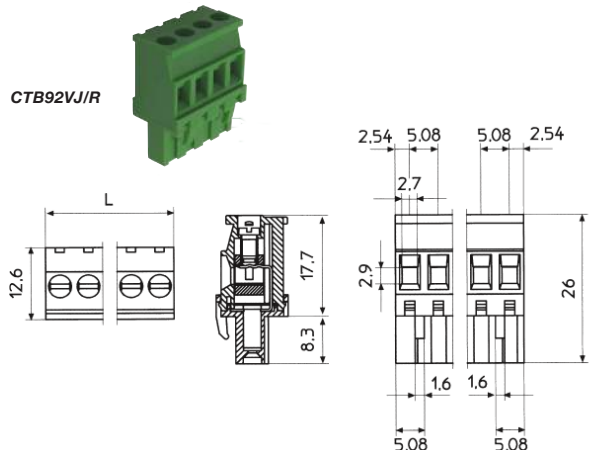
### Female connector vertical (standard)

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB92VJ/2S	2	10.2mm	CTB92VJ/14S	14	71.1mm
CTB92VJ/3S	3	15.2mm	CTB92VJ/15S	15	76.2mm
CTB92VJ/4S	4	20.3mm	CTB92VJ/16S	16	81.3mm
CTB92VJ/5S	5	25.4mm	CTB92VJ/17S	17	86.4mm
CTB92VJ/6S	6	30.5mm	CTB92VJ/18S	18	91.4mm
CTB92VJ/7S	7	35.6mm	CTB92VJ/19S	19	96.5mm
CTB92VJ/8S	8	40.6mm	CTB92VJ/20S	20	101.6mm
CTB92VJ/9S	9	45.7mm	CTB92VJ/21S	21	106.7mm
CTB92VJ/10S	10	50.8mm	CTB92VJ/22S	22	111.8mm
CTB92VJ/11S	11	55.9mm	CTB92VJ/23S	23	116.8mm
CTB92VJ/12S	12	61mm	CTB92VJ/24S	24	121.9mm
CTB92VJ/13S	13	66mm			



### Female connector vertical (reversed)

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB92VJ/2R	2	10.2mm	CTB92VJ/14R	14	71.1mm
CTB92VJ/3R	3	15.2mm	CTB92VJ/15R	15	76.2mm
CTB92VJ/4R	4	20.3mm	CTB92VJ/16R	16	81.3mm
CTB92VJ/5R	5	25.4mm	CTB92VJ/17R	17	86.4mm
CTB92VJ/6R	6	30.5mm	CTB92VJ/18R	18	91.4mm
CTB92VJ/7R	7	35.6mm	CTB92VJ/19R	19	96.5mm
CTB92VJ/8R	8	40.6mm	CTB92VJ/20R	20	101.6mm
CTB92VJ/9R	9	45.7mm	CTB92VJ/21R	21	106.7mm
CTB92VJ/10R	10	50.8mm	CTB92VJ/22R	22	111.8mm
CTB92VJ/11R	11	55.9mm	CTB92VJ/23R	23	116.8mm
CTB92VJ/12R	12	61mm	CTB92VJ/24R	24	121.9mm
CTB92VJ/13R	13	66mm			

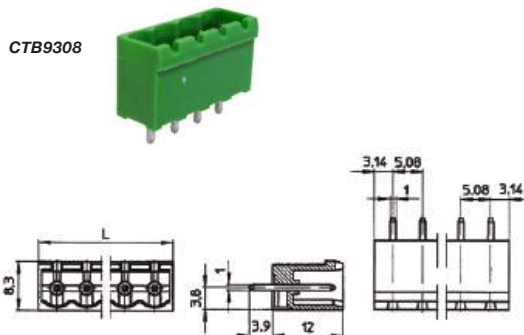




# PCB TERMINAL BLOCKS

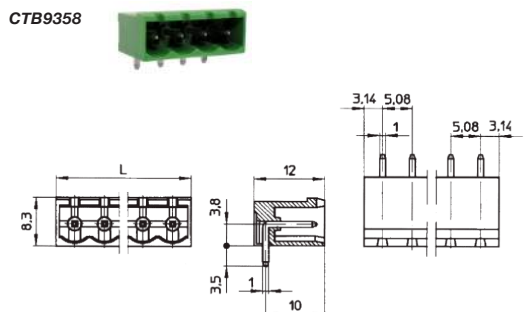
## PCB mounting male vertical (closed end)

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB9308/2	2	11.4mm	CTB9308/14	14	72.3mm
CTB9308/3	3	16.4mm	CTB9308/15	15	77.4mm
CTB9308/4	4	21.5mm	CTB9308/16	16	82.5mm
CTB9308/5	5	26.6mm	CTB9308/17	17	87.6mm
CTB9308/6	6	31.7mm	CTB9308/18	18	92.6mm
CTB9308/7	7	36.78mm	CTB9308/19	19	97.7mm
CTB9308/8	8	41.8mm	CTB9308/20	20	102.8mm
CTB9308/9	9	46.9mm	CTB9308/21	21	107.9mm
CTB9308/10	10	52mm	CTB9308/22	22	113mm
CTB9308/11	11	57.1mm	CTB9308/23	23	118mm
CTB9308/12	12	67.2mm	CTB9308/24	24	123.1mm
CTB9308/13	13	67.2mm			



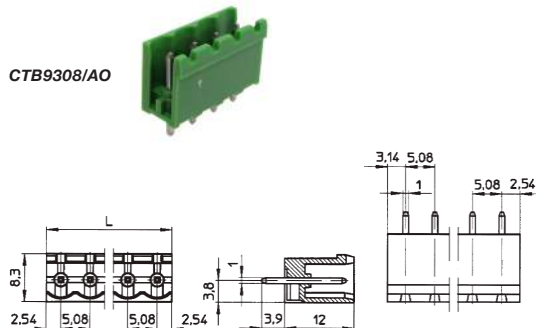
## PCB mounting male horizontal (closed end)

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB9358/2	2	11.4mm	CTB9358/14	14	72.3mm
CTB9358/3	3	16.4mm	CTB9358/15	15	77.4mm
CTB9358/4	4	21.5mm	CTB9358/16	16	82.5mm
CTB9358/5	5	26.6mm	CTB9358/17	17	87.6mm
CTB9358/6	6	31.7mm	CTB9358/18	18	92.6mm
CTB9358/7	7	36.78mm	CTB9358/19	19	97.7mm
CTB9358/8	8	41.8mm	CTB9358/20	20	102.8mm
CTB9358/9	9	46.9mm	CTB9358/21	21	107.9mm
CTB9358/10	10	52mm	CTB9358/22	22	113mm
CTB9358/11	11	57.1mm	CTB9358/23	23	118mm
CTB9358/12	12	67.2mm	CTB9358/24	24	123.1mm
CTB9358/13	13	67.2mm			



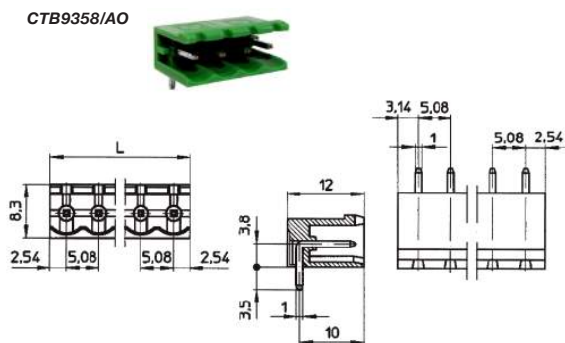
## PCB mounting male vertical (open ended)

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB9308/2AO	2	10.2mm	CTB9308/14AO	14	71.1mm
CTB9308/3AO	3	15.2mm	CTB9308/15AO	15	76.2mm
CTB9308/4AO	4	20.3mm	CTB9308/16AO	16	81.3mm
CTB9308/5AO	5	25.4mm	CTB9308/17AO	17	86.4mm
CTB9308/6AO	6	30.5mm	CTB9308/18AO	18	91.4mm
CTB9308/7AO	7	35.6mm	CTB9308/19AO	19	96.5mm
CTB9308/8AO	8	40.6mm	CTB9308/20AO	20	101.6mm
CTB9308/9AO	9	45.7mm	CTB9308/21AO	21	106.7mm
CTB9308/10AO	10	50.8mm	CTB9308/22AO	22	111.7mm
CTB9308/11AO	11	55.9mm	CTB9308/23AO	23	116.8mm
CTB9308/12AO	12	61mm	CTB9308/24AO	24	121.9mm
CTB9308/13AO	13	66mm			



## PCB mounting male horizontal (open ended)

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB9358/2AO	2	10.2mm	CTB9358/14AO	14	71.1mm
CTB9358/3AO	3	15.2mm	CTB9358/15AO	15	76.2mm
CTB9358/4AO	4	20.3mm	CTB9358/16AO	16	81.3mm
CTB9358/5AO	5	25.4mm	CTB9358/17AO	17	86.4mm
CTB9358/6AO	6	30.5mm	CTB9358/18AO	18	91.4mm
CTB9358/7AO	7	35.6mm	CTB9358/19AO	19	96.5mm
CTB9358/8AO	8	40.6mm	CTB9358/20AO	20	101.6mm
CTB9358/9AO	9	45.7mm	CTB9358/21AO	21	106.7mm
CTB9358/10AO	10	50.8mm	CTB9358/22AO	22	111.7mm
CTB9358/11AO	11	55.9mm	CTB9358/23AO	23	116.8mm
CTB9358/12AO	12	61mm	CTB9358/24AO	24	121.9mm
CTB9358/13AO	13	66mm			



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ELECTRONICS & ENCLOSURES

# PCB TERMINAL BLOCKS

## 5.08mm Pitch Panel Mounting Terminal Block

- Panel mounting pluggable terminal block header
- Compatible with CTB9208 and CTB92VJ female plugs
- Polarised mouldings
- Rising clamp terminals accept wires of 0.2mm<sup>2</sup> to 3.3mm<sup>2</sup> (24-12AWG)
- Moulded in green UL94-V0 flame retardant PA
- Captive screws

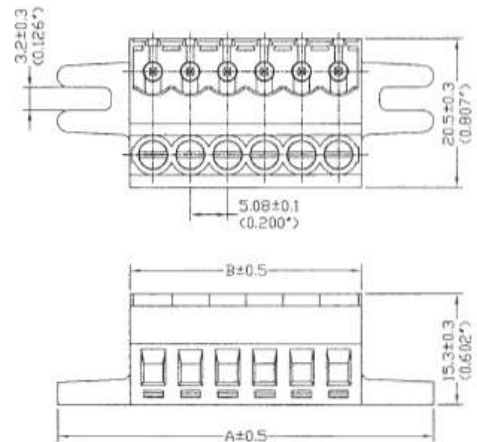
CTBA9308/P



### SPECIFICATION


Rating	10A/300V
Working temperature	-40°C to +105°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Brass, tin plated
Wire clamp	Brass, tin plated
Screw/torque	M3 steel zinc plated, 4.5lb-inch

TYPE NO.	POLES	LENGTH	
		A (mm)	B (mm)
CTBA9308/2P	2	31.24	11.44
CTBA9308/3P	3	36.32	16.52
CTBA9308/4P	4	41.40	21.60
CTBA9308/5P	5	46.48	26.68
CTBA9308/6P	6	51.56	31.76
CTBA9308/7P	7	56.64	36.84
CTBA9308/8P	8	61.72	41.92
CTBA9308/9P	9	66.80	47.00
CTBA9308/10P	10	71.88	52.08
CTBA9308/11P	11	76.96	57.16
CTBA9308/12P	12	82.04	62.24
CTBA9308/13P	13	87.12	67.32
CTBA9308/14P	14	92.20	72.40
CTBA9308/15P	15	97.28	77.48
CTBA9308/16P	16	102.36	82.56
CTBA9308/17P	17	107.44	87.64
CTBA9308/18P	18	112.52	92.72
CTBA9308/19P	19	117.60	97.80
CTBA9308/20P	20	122.68	102.88
CTBA9308/21P	21	127.76	107.96
CTBA9308/22P	22	132.84	113.04
CTBA9308/23P	23	137.92	118.12
CTBA9308/24P	24	143.00	123.20



# PCB TERMINAL BLOCKS

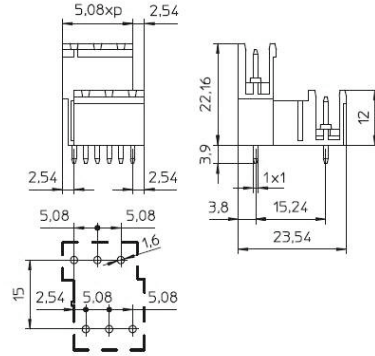
## 5.08mm PCB Mounting Double Decker Block

- Space saving
- Double deck
- 4(2x2) and 6(2x3) pole interlocking
- Open ended modules
- Professional rising clamp terminals
- Guided pin alignment
- Available pre-assembled
- Polarised mouldings
-  approved

CTBDD93HJ



CTBDD93VJ



### Vertical

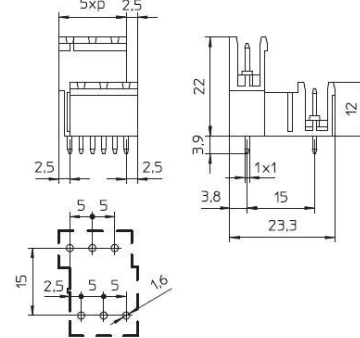
#### 5.08mm

TYPE NO.	POLES	LENGTH
CTBDD93VJ/2	4	12.7mm
CTBDD93VJ/3	6	17.8mm
CTBDD93VJ/4	8	22.9mm
CTBDD93VJ/5	10	27.9mm
CTBDD93VJ/6	12	33mm
CTBDD93VJ/7	14	38.1mm
CTBDD93VJ/8	16	43.2mm
CTBDD93VJ/9	18	48.3mm
CTBDD93VJ/10	20	53.3mm
CTBDD93VJ/11	22	58.4mm
CTBDD93VJ/12	24	63.5mm

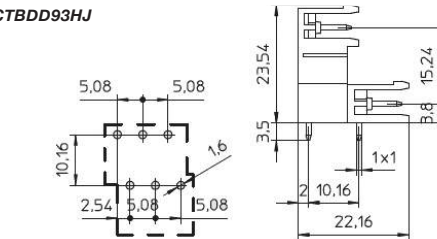
#### 5mm

TYPE NO.	POLES	LENGTH
CTBDD93VG/2	4	12.5mm
CTBDD93VG/3	6	17.5mm
CTBDD93VG/4	8	22.5mm
CTBDD93VG/5	10	27.5mm
CTBDD93VG/6	12	32.5mm
CTBDD93VG/7	14	37.5mm
CTBDD93VG/8	16	42.5mm
CTBDD93VG/9	18	47.5mm
CTBDD93VG/10	20	52.5mm
CTBDD93VG/11	22	57.5mm
CTBDD93VG/12	24	62.5mm

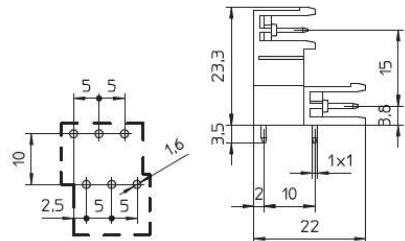
CTBDD93VG



CTBDD93HJ



CTBDD93HG



### Horizontal

#### 5.08mm

TYPE NO.	POLES	LENGTH
CTBDD93HJ/2	4	12.7mm
CTBDD93HJ/3	6	17.8mm
CTBDD93HJ/4	8	22.9mm
CTBDD93HJ/5	10	27.9mm
CTBDD93HJ/6	12	33mm
CTBDD93HJ/7	14	38.1mm
CTBDD93HJ/8	16	43.2mm
CTBDD93HJ/9	18	48.3mm
CTBDD93HJ/10	20	53.3mm
CTBDD93HJ/11	22	58.4mm
CTBDD93HJ/12	24	63.5mm

#### 5mm

TYPE NO.	POLES	LENGTH
CTBDD93HG/2	4	12.5mm
CTBDD93HG/3	6	17.5mm
CTBDD93HG/4	8	22.5mm
CTBDD93HG/5	10	27.5mm
CTBDD93HG/6	12	32.5mm
CTBDD93HG/7	14	37.5mm
CTBDD93HG/8	16	42.5mm
CTBDD93HG/9	18	47.5mm
CTBDD93HG/10	20	52.5mm
CTBDD93HG/11	22	57.5mm
CTBDD93HG/12	24	62.5mm

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# PCB TERMINAL BLOCKS

## 5.08mm Pitch Female Plugs, PCB Mount

PCB mounting female plugs for mating with male headers for board to board connections.

- 2 and 3 pole interlockable
- Flanged option (not interlockable)
- Horizontal & vertical orientations
- Polarised mouldings
- Moulded in green UL94-V0 flame retardant PA
- Dual pin row for stability on the PCB
- Mate with PCB headers such as CTB9308(FL) and CTB9358(FL) and male screwless pluggable CSTB9308
- GWT and THR materials on request
- Guided pin alignment
-  us approved
-  approvals pending

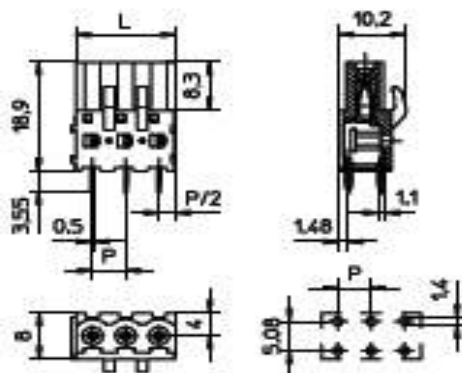
### SPECIFICATION

Rating	20A/320V
Working temperature	+110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned brass

### Vertical connector

TYPE NO.	POLES	LENGTH
CTB97VJ/2	2	10.16mm
CTB97VJ/3	3	15.24mm
CTB97VJ/4	4	20.32mm
CTB97VJ/5	5	25.4mm
CTB97VJ/6	6	30.48mm
CTB97VJ/7	7	35.56mm
CTB97VJ/8	8	40.64mm
CTB97VJ/9	9	45.72mm
CTB97VJ/10	10	50.8mm
CTB97VJ/11	11	55.88mm
CTB97VJ/12	12	60.96mm

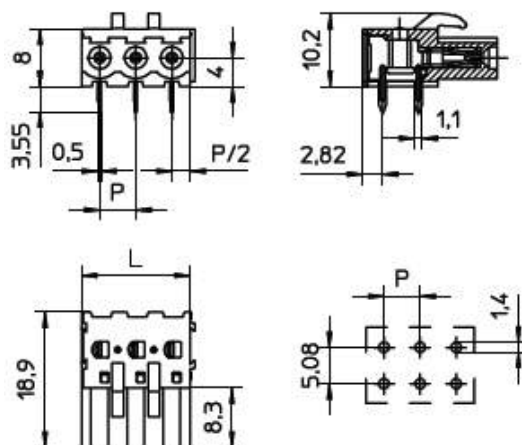
CTB97VJ



### Horizontal connector

TYPE NO.	POLES	LENGTH
CTB97HJ/2	2	10.16mm
CTB97HJ/3	3	15.24mm
CTB97HJ/4	4	20.32mm
CTB97HJ/5	5	25.4mm
CTB97HJ/6	6	30.48mm
CTB97HJ/7	7	35.56mm
CTB97HJ/8	8	40.64mm
CTB97HJ/9	9	45.72mm
CTB97HJ/10	10	50.8mm
CTB97HJ/11	11	55.88mm
CTB97HJ/12	12	60.96mm

CTB97HJ

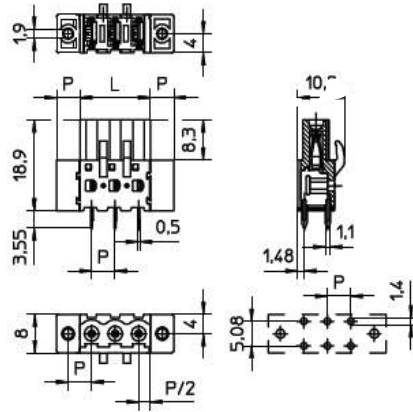


# PCB TERMINAL BLOCKS

## Vertical connector, Flanged

TYPE NO.	POLES	LENGTH
CTB97VJ/2FL	2	20.32mm
CTB97VJ/3FL	3	25.4mm

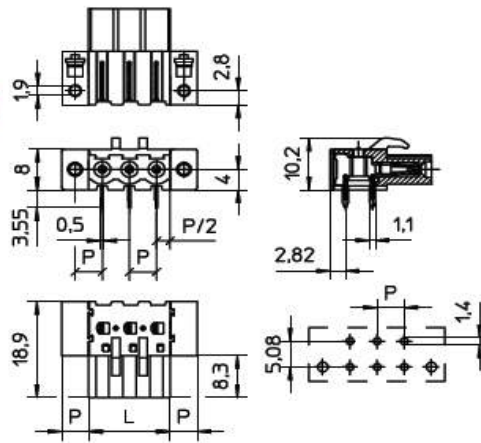
CTB97VJ/FL



## Horizontal connector, Flanged

TYPE NO.	POLES	LENGTH
CTB97HJ/2FL	2	20.32mm
CTB97HJ/3FL	3	25.4mm

CTB97HJ/FL



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# PCB TERMINAL BLOCKS

## Top Entry Pluggable Terminal Blocks

- Vertical plug-in terminal blocks with wire entry inline with screw orientation
- Cage clamp connection
- Screw flange option
- Polarised mouldings mate with CTB93XX and CTB93XX/FL series headers
- Moulded in green UL94-V0 flame retardant PA66
- 0.2-2mm<sup>2</sup> (24-12AWG) stranded cable

### SPECIFICATION

Rating	16A/320V UL=300V, VDE=380V
Dielectric strength	2kV
Insulation resistance	>2MΩ
Working temperature	-40°C to +105°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned phosphor bronze
Cage clamp	Nickel copper flash brass
Screw/torque	M3 steel zinc plated, 0.5Nm

### 5mm, 5.08mm Vertical Top Entry Plug

#### 5mm

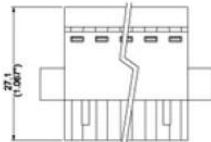
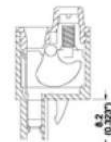
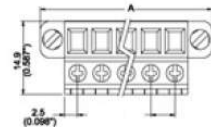
TYPE NO.	POLES	LENGTH
CTB92TG/2	2	10mm
CTB92TG/3	3	15mm
CTB92TG/4	4	20mm
CTB92TG/5	5	25mm
CTB92TG/6	6	30mm
CTB92TG/7	7	35mm
CTB92TG/8	8	40mm
CTB92TG/9	9	45mm
CTB92TG/10	10	50mm
CTB92TG/11	11	55mm
CTB92TG/12	12	60mm
CTB92TG/13	13	65mm
CTB92TG/14	14	70mm
CTB92TG/15	15	75mm
CTB92TG/16	16	80mm
CTB92TG/17	17	85mm
CTB92TG/18	18	90mm
CTB92TG/19	19	95mm
CTB92TG/20	20	100mm
CTB92TG/21	21	105mm
CTB92TG/22	22	110mm
CTB92TG/23	23	115mm
CTB92TG/24	24	120mm

#### 5.08mm

TYPE NO.	POLES	LENGTH
CTB92TJ/2	2	10.2mm
CTB92TJ/3	3	15.2mm
CTB92TJ/4	4	20.3mm
CTB92TJ/5	5	25.4mm
CTB92TJ/6	6	30.5mm
CTB92TJ/7	7	35.6mm
CTB92TJ/8	8	40.6mm
CTB92TJ/9	9	45.7mm
CTB92TJ/10	10	50.8mm
CTB92TJ/11	11	55.9mm
CTB92TJ/12	12	61mm
CTB92TJ/13	13	66mm
CTB92TJ/14	14	71.1mm
CTB92TJ/15	15	76.2mm
CTB92TJ/16	16	81.3mm
CTB92TJ/17	17	86.4mm
CTB92TJ/18	18	91.4mm
CTB92TJ/19	19	96.5mm
CTB92TJ/20	20	101.6mm
CTB92TJ/21	21	106.7mm
CTB92TJ/22	22	111.8mm
CTB92TJ/23	23	116.8mm
CTB92TJ/24	24	121.9mm

CTB92TG

CTB92TJ



### 5mm, 5.08mm Flanged Vertical Top Entry Plug

#### 5mm

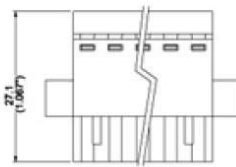
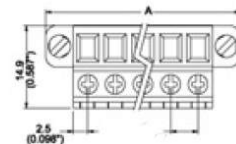
TYPE NO.	POLES	LENGTH
CTB92TG/2FL	2	20mm
CTB92TG/3FL	3	25mm
CTB92TG/4FL	4	30mm
CTB92TG/5FL	5	35mm
CTB92TG/6FL	6	40mm
CTB92TG/7FL	7	45mm
CTB92TG/8FL	8	50mm
CTB92TG/9FL	9	55mm
CTB92TG/10FL	10	60mm
CTB92TG/11FL	11	65mm
CTB92TG/12FL	12	70mm
CTB92TG/13FL	13	75mm
CTB92TG/14FL	14	80mm
CTB92TG/15FL	15	85mm
CTB92TG/16FL	16	90mm
CTB92TG/17FL	17	95mm
CTB92TG/18FL	18	100mm
CTB92TG/19FL	19	105mm
CTB92TG/20FL	20	110mm
CTB92TG/21FL	21	115mm
CTB92TG/22FL	22	120mm
CTB92TG/23FL	23	125mm
CTB92TG/24FL	24	130mm

#### 5.08mm

TYPE NO.	POLES	LENGTH
CTB92TJ/2FL	2	20.3
CTB92TJ/3FL	3	25.4
CTB92TJ/4FL	4	30.5
CTB92TJ/5FL	5	35.6
CTB92TJ/6FL	6	40.6
CTB92TJ/7FL	7	45.7
CTB92TJ/8FL	8	50.8
CTB92TJ/9FL	9	55.9
CTB92TJ/10FL	10	61.0
CTB92TJ/11FL	11	66.0
CTB92TJ/12FL	12	71.1
CTB92TJ/13FL	13	76.2
CTB92TJ/14FL	14	81.3
CTB92TJ/15FL	15	86.4
CTB92TJ/16FL	16	91.4
CTB92TJ/17FL	17	96.5
CTB92TJ/18FL	18	101.6
CTB92TJ/19FL	19	106.7
CTB92TJ/20FL	20	111.8
CTB92TJ/21FL	21	116.8
CTB92TJ/22FL	22	121.9
CTB92TJ/23FL	23	127.0
CTB92TJ/24FL	24	132.0

CTB92TG/FL


CTB92TJ/FL





# PCB TERMINAL BLOCKS

## 5.08mm Pitch Screwless Pluggable Terminal

- 2-24 pole solid block (female)
- 2-16 pole solid block (male)
- Pluggable female and male connectors
- Also compatible with conventional 5.08mm pluggable terminal blocks
- Screwless - wire retained by cage spring
- Optional mounting clip, CSTB9C can be removed after fitting
- Polarised mouldings
- Moulded in green UL94-V0 flame retardant PA
- 0.2-2.5mm<sup>2</sup> (24-14AWG) solid & stranded cable
-  approved
- GWT compliant version also

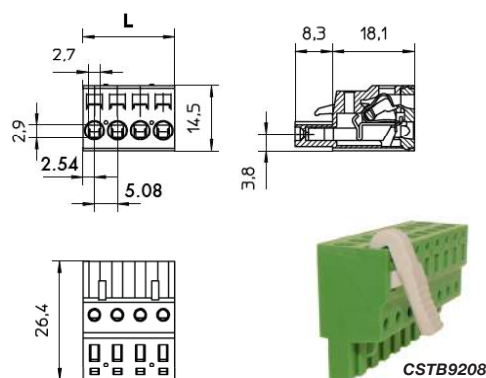
### SPECIFICATION

Rating	18A/320V
	UL=14A/300V, IMQ=18A/320V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Clamp/spring	Nickel copper flash brass

### Female connector

TYPE NO.	POLES	LENGTH
CSTB9208/2	2	10.2mm
CSTB9208/3	3	15.2mm
CSTB9208/4	4	20.3mm
CSTB9208/5	5	25.4mm
CSTB9208/6	6	30.5mm
CSTB9208/7	7	35.6mm
CSTB9208/8	8	40.6mm
CSTB9208/9	9	45.7mm
CSTB9208/10	10	50.8mm
CSTB9208/11	11	55.9mm
CSTB9208/12	12	61mm
CSTB9208/13	13	66mm

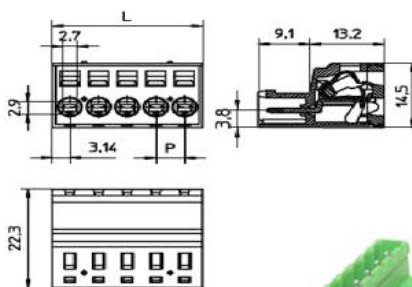
TYPE NO.	POLES	LENGTH
CSTB9208/14	14	71.1mm
CSTB9208/15	15	76.2mm
CSTB9208/16	16	81.3mm
CSTB9208/17	17	86.4mm
CSTB9208/18	18	91.4mm
CSTB9208/19	19	96.5mm
CSTB9208/20	20	101.6mm
CSTB9208/21	21	106.7mm
CSTB9208/22	22	111.8mm
CSTB9208/23	23	116.8mm
CSTB9208/24	24	121.9mm



### Male connector

TYPE NO.	POLES	LENGTH
CSTB9308/2	2	11.36mm
CSTB9308/3	3	16.44mm
CSTB9308/4	4	21.52mm
CSTB9308/5	5	26.6mm
CSTB9308/6	6	31.68mm
CSTB9308/7	7	36.76mm
CSTB9308/8	8	41.84mm
CSTB9308/9	9	46.92mm
CSTB9308/10	10	52mm
CSTB9308/11	11	57.08mm
CSTB9308/12	12	62.16mm
CSTB9308/13	13	67.24mm

TYPE NO.	POLES	LENGTH
CSTB9308/14	14	72.32mm
CSTB9308/15	15	77.4mm
CSTB9308/16	16	82.48mm



CSTB9308

### Mounting Clip

TYPE NO.
CSTB9C



PCB  
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ELECTRONICS & ENCLOSURES

# PCB TERMINAL BLOCKS

## 7.5mm & 7.62mm Pitch Pluggable Rising Clamp Terminal

- 2-12 pole solid block
- Pluggable male-female connectors
- Open & closed headers
- Horizontal female plug style
- Polarised mouldings
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-2.5mm<sup>2</sup> (30-12AWG) solid & stranded cable
- Anti solder wicking
- Captive screws
- Guided pin alignment
-    approved

### SPECIFICATION

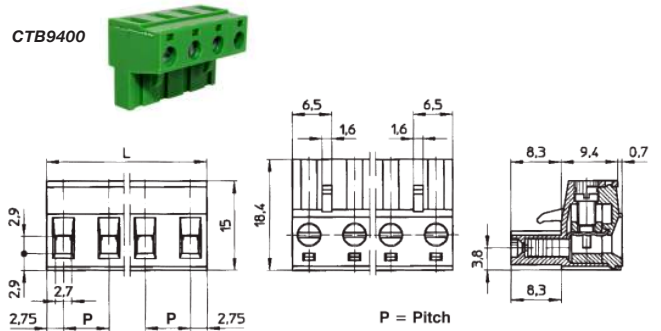
Rating	12A/500V
	UL=12A/300V, VDE&IMQ=20A/500V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	160°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned phosphor bronze
Rising clamp	Nickel copper flash brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.4mm

### 7.5mm

TYPE NO.	POLES	LENGTH
CTB9400/2	2	13mm
CTB9400/3	3	20.5mm
CTB9400/4	4	28mm
CTB9400/5	5	35.5mm
CTB9400/6	6	43mm
CTB9400/7	7	50.5mm
CTB9400/8	8	58mm
CTB9400/9	9	65.5mm
CTB9400/10	10	73mm
CTB9400/11	11	80.5mm
CTB9400/12	12	88mm

### 7.62mm

TYPE NO.	POLES	LENGTH
CTB9408/2	2	13.2mm
CTB9408/3	3	20.9mm
CTB9408/4	4	28.5mm
CTB9408/5	5	36.1mm
CTB9408/6	6	43.7mm
CTB9408/7	7	51.3mm
CTB9408/8	8	59mm
CTB9408/9	9	66.6mm
CTB9408/10	10	74.2mm
CTB9408/11	11	81.8mm
CTB9408/12	12	89.4mm



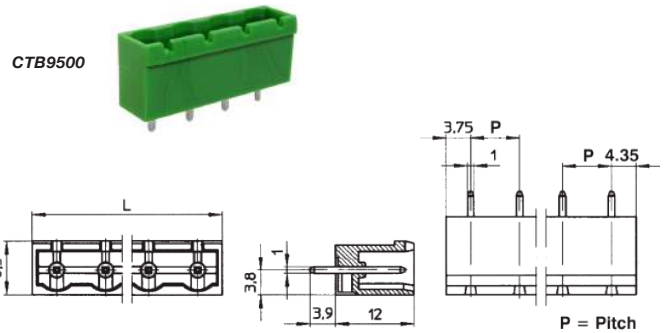
### PCB mounting male vertical (closed ended)

#### 7.5mm

TYPE NO.	POLES	LENGTH
CTB9500/2	2	15mm
CTB9500/3	3	22.5mm
CTB9500/4	4	30mm
CTB9500/5	5	37.5mm
CTB9500/6	6	45mm
CTB9500/7	7	52.5mm
CTB9500/8	8	60mm
CTB9500/9	9	67.5mm
CTB9500/10	10	75mm
CTB9500/11	11	82.5mm
CTB9500/12	12	90mm

#### 7.62mm

TYPE NO.	POLES	LENGTH
CTB9508/2	2	15.2mm
CTB9508/3	3	22.8mm
CTB9508/4	4	30.4mm
CTB9508/5	5	38.1mm
CTB9508/6	6	45.7mm
CTB9508/7	7	53.3mm
CTB9508/8	8	60.9mm
CTB9508/9	9	68.6mm
CTB9508/10	10	76.2mm
CTB9508/11	11	83.8mm
CTB9508/12	12	91.4mm



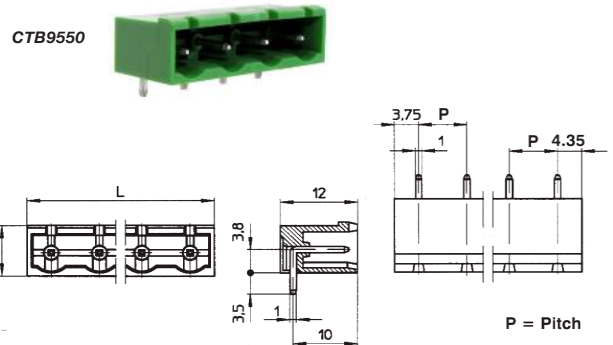
### PCB mounting male horizontal (closed ended)

#### 7.5mm

TYPE NO.	POLES	LENGTH
CTB9550/2	2	15mm
CTB9550/3	3	22.5mm
CTB9550/4	4	30mm
CTB9550/5	5	37.5mm
CTB9550/6	6	45mm
CTB9550/7	7	52.5mm
CTB9550/8	8	60mm
CTB9550/9	9	67.5mm
CTB9550/10	10	75mm
CTB9550/11	11	82.5mm
CTB9550/12	12	90mm

#### 7.62mm

TYPE NO.	POLES	LENGTH
CTB9558/2	2	15.2mm
CTB9558/3	3	22.8mm
CTB9558/4	4	30.4mm
CTB9558/5	5	38.1mm
CTB9558/6	6	45.7mm
CTB9558/7	7	53.3mm
CTB9558/8	8	60.2mm
CTB9558/9	9	68.5mm
CTB9558/10	10	76.2mm
CTB9558/11	11	83.8mm
CTB9558/12	12	91.4mm



# PCB TERMINAL BLOCKS

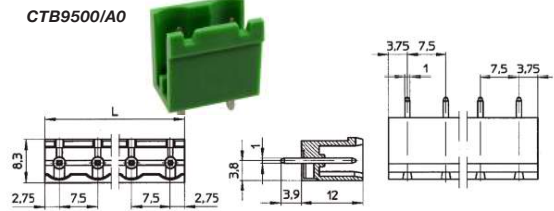
## PCB mounting male vertical (open ended)

7.5mm

TYPE NO.	POLES	LENGTH
CTB9500/2AO	2	13mm
CTB9500/3AO	3	20.5mm
CTB9500/4AO	4	28mm
CTB9500/5AO	5	35.5mm
CTB9500/6AO	6	43mm
CTB9500/7AO	7	50.5mm
CTB9500/8AO	8	58mm
CTB9500/9AO	9	65.5mm
CTB9500/10AO	10	73mm
CTB9500/11AO	11	80.5mm
CTB9500/12AO	12	88mm

7.62mm

TYPE NO.	POLES	LENGTH
CTB9508/2AO	2	13.2mm
CTB9508/3AO	3	20.9mm
CTB9508/4AO	4	28.5mm
CTB9508/5AO	5	36.1mm
CTB9508/6AO	6	43.7mm
CTB9508/7AO	7	51.3mm
CTB9508/8AO	8	59mm
CTB9508/9AO	9	66.6mm
CTB9508/10AO	10	74.2mm
CTB9508/11AO	11	81.8mm
CTB9508/12AO	12	89.4mm



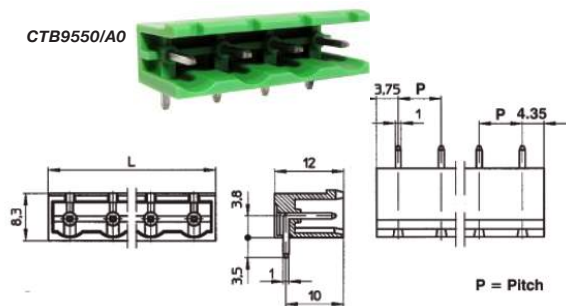
## PCB mounting male horizontal (open ended)

7.5mm

TYPE NO.	POLES	LENGTH
CTB9550/2AO	2	13mm
CTB9550/3AO	3	20.5mm
CTB9550/4AO	4	28mm
CTB9550/5AO	5	35.5mm
CTB9550/6AO	6	43mm
CTB9550/7AO	7	50.5mm
CTB9550/8AO	8	58mm
CTB9550/9AO	9	65.5mm
CTB9550/10AO	10	73mm
CTB9550/11AO	11	80.5mm
CTB9550/12AO	12	88mm

7.62mm

TYPE NO.	POLES	LENGTH
CTB9558/2AO	2	13.2mm
CTB9558/3AO	3	20.9mm
CTB9558/4AO	4	28.5mm
CTB9558/5AO	5	36.1mm
CTB9558/6AO	6	43.7mm
CTB9558/7AO	7	51.3mm
CTB9558/8AO	8	59mm
CTB9558/9AO	9	66.6mm
CTB9558/10AO	10	74.2mm
CTB9558/11AO	11	81.8mm
CTB9558/12AO	12	89.4mm



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# PCB TERMINAL BLOCKS

## 10.16mm Pitch Pluggable Rising Clamp Terminal

- 2-12 pole solid block
- Pluggable male-female connectors
- Open & closed headers
- Horizontal & vertical female plug styles
- Polarised mouldings
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-2.5mm<sup>2</sup> (30-12AWG) solid & stranded cable
- Anti solder wicking
- Captive screws
- Guided pin alignment
-  approved

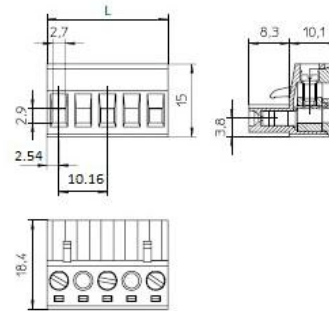
### SPECIFICATION

Rating	12A/320V UL=12A/300V, VDE&IMQ=20A/320V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned brass
Rising clamp	Nickel copper flash brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.4mm

### Female connector

TYPE NO.	POLES	LENGTH
CTB92HP/2	2	15.24mm
CTB92HP/3	3	25.40mm
CTB92HP/4	4	35.56mm
CTB92HP/5	5	45.72mm
CTB92HP/6	6	55.88mm
CTB92HP/7	7	66.04mm
CTB92HP/8	8	76.20mm
CTB92HP/9	9	86.36mm
CTB92HP/10	10	96.52mm
CTB92HP/11	11	106.68mm
CTB92HP/12	12	116.84mm

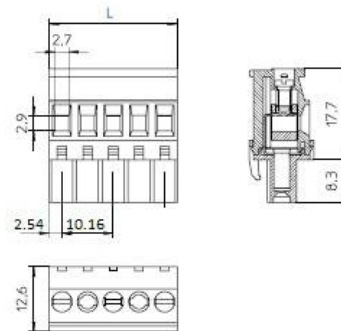
CTB92HP



### Female connector vertical (standard)

TYPE NO.	POLES	LENGTH
CTB92VP/2S	2	15.24mm
CTB92VP/3S	3	25.40mm
CTB92VP/4S	4	35.56mm
CTB92VP/5S	5	45.72mm
CTB92VP/6S	6	55.88mm
CTB92VP/7S	7	66.04mm
CTB92VP/8S	8	76.20mm
CTB92VP/9S	9	86.36mm
CTB92VP/10S	10	96.52mm
CTB92VP/11S	11	106.68mm
CTB92VP/12S	12	116.84mm

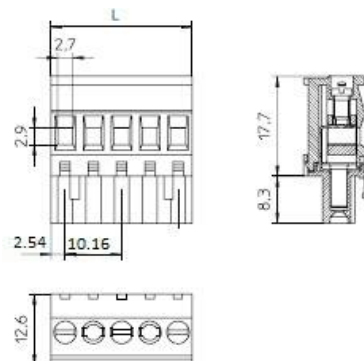
CTB92VP/S



### Female connector vertical (reversed)

TYPE NO.	POLES	LENGTH
CTB92VP/2R	2	15.24mm
CTB92VP/3R	3	25.40mm
CTB92VP/4R	4	35.56mm
CTB92VP/5R	5	45.72mm
CTB92VP/6R	6	55.88mm
CTB92VP/7R	7	66.04mm
CTB92VP/8R	8	76.20mm
CTB92VP/9R	9	86.36mm
CTB92VP/10R	10	96.52mm
CTB92VP/11R	11	106.68mm
CTB92VP/12R	12	116.84mm

CTB92VP/R

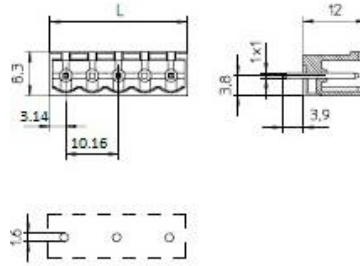


# PCB TERMINAL BLOCKS

## PCB mounting male vertical (closed end)

TYPE NO.	POLES	LENGTH
CTB93VP/2	2	16.44mm
CTB93VP/3	3	26.6mm
CTB93VP/4	4	36.76mm
CTB93VP/5	5	46.92mm
CTB93VP/6	6	57.08mm
CTB93VP/7	7	67.24mm
CTB93VP/8	8	77.4mm
CTB93VP/9	9	87.56mm
CTB93VP/10	10	97.72mm
CTB93VP/11	11	107.88mm
CTB93VP/12	12	118.04mm

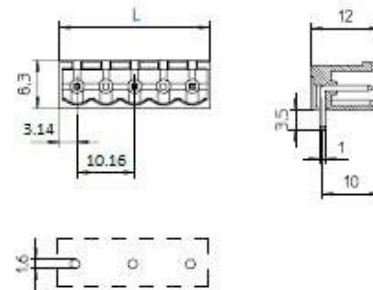
CTB93VP



## PCB mounting male horizontal (closed end)

TYPE NO.	POLES	LENGTH
CTB93HP/2	2	16.44mm
CTB93HP/3	3	26.6mm
CTB93HP/4	4	36.76mm
CTB93HP/5	5	46.92mm
CTB93HP/6	6	57.08mm
CTB93HP/7	7	67.24mm
CTB93HP/8	8	77.4mm
CTB93HP/9	9	87.56mm
CTB93HP/10	10	97.72mm
CTB93HP/11	11	107.88mm
CTB93HP/12	12	118.04mm

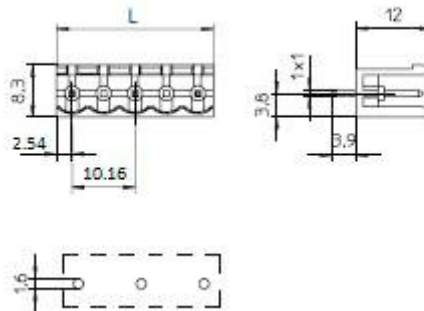
CTB93HP



## PCB mounting male vertical (open ended)

TYPE NO.	POLES	LENGTH
CTB93VP/2AO	2	15.24mm
CTB93VP/3AO	3	25.40mm
CTB93VP/4AO	4	35.56mm
CTB93VP/5AO	5	45.72mm
CTB93VP/6AO	6	55.88mm
CTB93VP/7AO	7	66.04mm
CTB93VP/8AO	8	76.20mm
CTB93VP/9AO	9	86.36mm
CTB93VP/10AO	10	96.52mm
CTB93VP/11AO	11	106.68mm
CTB93VP/12AO	12	116.84mm

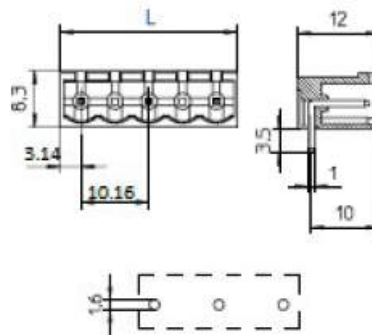
CTB93VP/AO



## PCB mounting male horizontal (open ended)

TYPE NO.	POLES	LENGTH
CTB93HP/2AO	2	15.24mm
CTB93HP/3AO	3	25.40mm
CTB93HP/4AO	4	35.56mm
CTB93HP/5AO	5	45.72mm
CTB93HP/6AO	6	55.88mm
CTB93HP/7AO	7	66.04mm
CTB93HP/8AO	8	76.20mm
CTB93HP/9AO	9	86.36mm
CTB93HP/10AO	10	96.52mm
CTB93HP/11AO	11	106.68mm
CTB93HP/12AO	12	116.84mm

CTB93HP/AO



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# PCB TERMINAL BLOCKS

## 5mm Pitch Pluggable Rising Clamp Terminal with Screw Flanges

- 2-22 pole solid block
- Pluggable male-female connectors
- Screw Flanges
- Horizontal female plug style
- Polarised mouldings
- Moulded in green UL94-V0 flame retardant PA66
- Professional rising clamp terminals
- 0.2 to 4mm<sup>2</sup> (24 to 12 AWG)
- Anti solder wicking
- Captive screws
- Guided pin alignment
- CE and  us approved

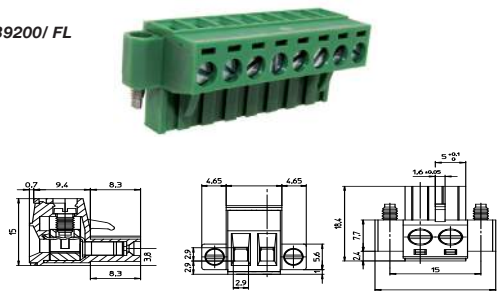
### SPECIFICATION

Rating	16A/320V UL=300V, VDE=380V
Dielectric strength	2kV
Insulation resistance	>2MΩ
Working temperature	-40°C to 105°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned phosphor bronze
Rising clamp	Nickel copper flash brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm

### Female connector

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB9200/2FL	2	20mm	CTB9200/14FL	14	80mm
CTB9200/3FL	3	25mm	CTB9200/15FL	15	85mm
CTB9200/4FL	4	30mm	CTB9200/16FL	16	90mm
CTB9200/5FL	5	35mm	CTB9200/17FL	17	95mm
CTB9200/6FL	6	40mm	CTB9200/18FL	18	100mm
CTB9200/7FL	7	45mm	CTB9200/19FL	19	105mm
CTB9200/8FL	8	50mm	CTB9200/20FL	20	110mm
CTB9200/9FL	9	55mm	CTB9200/21FL	21	115mm
CTB9200/10FL	10	60mm	CTB9200/22FL	22	120mm
CTB9200/11FL	11	65mm			
CTB9200/12FL	12	70mm			
CTB9200/13FL	13	75mm			

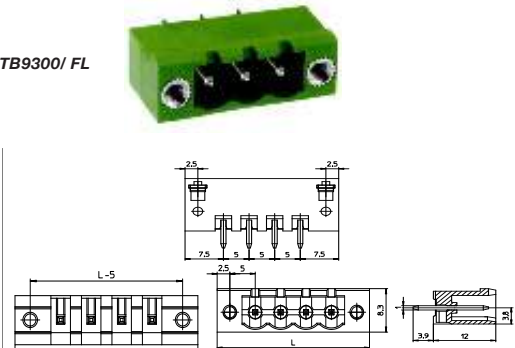
CTB9200/ FL



### PCB mounting male vertical

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB9300/2FL	2	20mm	CTB9300/14FL	14	80mm
CTB9300/3FL	3	25mm	CTB9300/15FL	15	85mm
CTB9300/4FL	4	30mm	CTB9300/16FL	16	90mm
CTB9300/5FL	5	35mm	CTB9300/17FL	17	95mm
CTB9300/6FL	6	40mm	CTB9300/18FL	18	100mm
CTB9300/7FL	7	45mm	CTB9300/19FL	19	105mm
CTB9300/8FL	8	50mm	CTB9300/20FL	20	110mm
CTB9300/9FL	9	55mm	CTB9300/21FL	21	115mm
CTB9300/10FL	10	60mm	CTB9300/22FL	22	120mm
CTB9300/11FL	11	65mm			
CTB9300/12FL	12	70mm			
CTB9300/13FL	13	75mm			

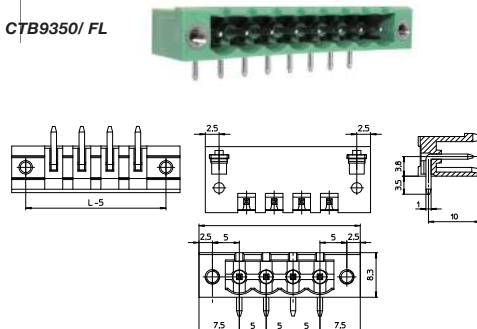
CTB9300/ FL



### PCB mounting male horizontal

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB9350/2FL	2	20mm	CTB9350/14FL	14	80mm
CTB9350/3FL	3	25mm	CTB9350/15FL	15	85mm
CTB9350/4FL	4	30mm	CTB9350/16FL	16	90mm
CTB9350/5FL	5	35mm	CTB9350/17FL	17	95mm
CTB9350/6FL	6	40mm	CTB9350/18FL	18	100mm
CTB9350/7FL	7	45mm	CTB9350/19FL	19	105mm
CTB9350/8FL	8	50mm	CTB9350/20FL	20	110mm
CTB9350/9FL	9	55mm	CTB9350/21FL	21	115mm
CTB9350/10FL	10	60mm	CTB9350/22FL	22	120mm
CTB9350/11FL	11	65mm			
CTB9350/12FL	12	70mm			
CTB9350/13FL	13	75mm			


CTB9350/ FL





# PCB TERMINAL BLOCKS

## 5.08mm Pitch Pluggable Rising Clamp Terminal with Screw Flanges

- 2-22 pole solid block
- Pluggable male-female connectors
- Screw Flanges
- Horizontal female plug style
- Polarised mouldings
- Moulded in green UL94-V0 flame retardant PA66
- Professional rising clamp terminals
- 0.2 to 4mm<sup>2</sup> (24 to 12 AWG)
- Anti solder wicking
- Captive screws
- Guided pin alignment
- CE and  approved

### SPECIFICATION

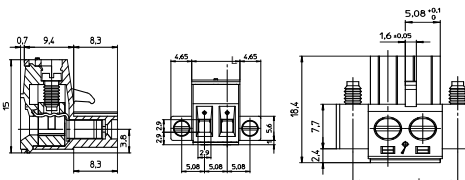
Rating	16A/380V UL=300V, VDE=380V
Dielectric strength	2kV
Insulation resistance	>2MΩ
Working temperature	-40°C to 105°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned phosphor bronze
Rising clamp	Nickel copper flash brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm

### Female connector

TYPE NO.	POLES	LENGTH
CTB9208/2FL	2	20mm
CTB9208/3FL	3	25mm
CTB9208/4FL	4	30mm
CTB9208/5FL	5	35mm
CTB9208/6FL	6	40mm
CTB9208/7FL	7	45mm
CTB9208/8FL	8	50mm
CTB9208/9FL	9	55mm
CTB9208/10FL	10	60mm
CTB9208/11FL	11	65mm
CTB9208/12FL	12	70mm
CTB9208/13FL	13	75mm

TYPE NO.	POLES	LENGTH
CTB9208/14FL	14	80mm
CTB9208/15FL	15	85mm
CTB9208/16FL	16	90mm
CTB9208/17FL	17	95mm
CTB9208/18FL	18	100mm
CTB9208/19FL	19	105mm
CTB9208/20FL	20	110mm
CTB9208/21FL	21	115mm
CTB9208/22FL	22	120mm

CTB9208/ FL

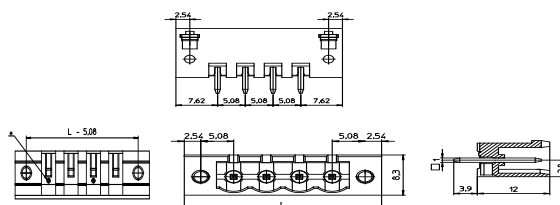


### PCB mounting male vertical

TYPE NO.	POLES	LENGTH
CTB9308/2FL	2	20mm
CTB9308/3FL	3	25mm
CTB9308/4FL	4	30mm
CTB9308/5FL	5	35mm
CTB9308/6FL	6	40mm
CTB9308/7FL	7	45mm
CTB9308/8FL	8	50mm
CTB9308/9FL	9	55mm
CTB9308/10FL	10	60mm
CTB9308/11FL	11	65mm
CTB9308/12FL	12	70mm
CTB9308/13FL	13	75mm

TYPE NO.	POLES	LENGTH
CTB9308/14FL	14	80mm
CTB9308/15FL	15	85mm
CTB9308/16FL	16	90mm
CTB9308/17FL	17	95mm
CTB9308/18FL	18	100mm
CTB9308/19FL	19	105mm
CTB9308/20FL	20	110mm
CTB9308/21FL	21	115mm
CTB9308/22FL	22	120mm

CTB9308/ FL

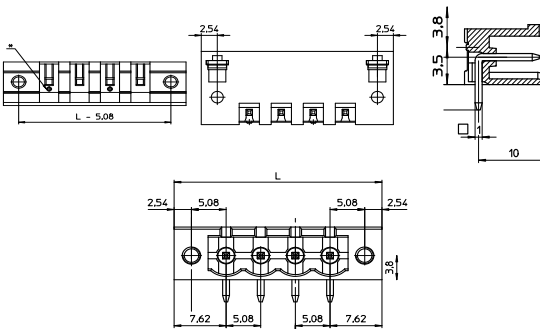


### PCB mounting male horizontal

TYPE NO.	POLES	LENGTH
CTB9358/2FL	2	20mm
CTB9358/3FL	3	25mm
CTB9358/4FL	4	30mm
CTB9358/5FL	5	35mm
CTB9358/6FL	6	40mm
CTB9358/7FL	7	45mm
CTB9358/8FL	8	50mm
CTB9358/9FL	9	55mm
CTB9358/10FL	10	60mm
CTB9358/11FL	11	65mm
CTB9358/12FL	12	70mm
CTB9358/13FL	13	75mm

TYPE NO.	POLES	LENGTH
CTB9358/14FL	14	80mm
CTB9358/15FL	15	85mm
CTB9358/16FL	16	90mm
CTB9358/17FL	17	95mm
CTB9358/18FL	18	100mm
CTB9358/19FL	19	105mm
CTB9358/20FL	20	110mm
CTB9358/21FL	21	115mm
CTB9358/22FL	22	120mm

CTB9358/ FL



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# PCB TERMINAL BLOCKS

## 5mm Pitch Pluggable for Vertical or 90° mounting Screw Terminal

- 2-12 pole interlocking
- Pluggable via header pins
- Test probe facility
- Dual horizontal or vertical mounting
- Moulded in black UL94-V0 flame retardant PA66
- Wire protector terminals
- 1.5mm<sup>2</sup> cable entry
- Captive screws
- approved

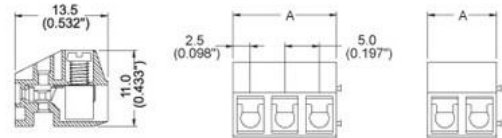
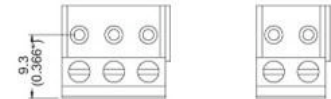
CTBA1301



### SPECIFICATION

Rating	10A/300V UL=15A/300V, VDE&IMQ=10A/300V
Dielectric strength	≥2.5kV
Working temperature	105°C
Moulding	UL94-V0 flame retardant PA66
Wire protector	Phosphor bronze, tin plated
Terminal	Tinned, copper flashed brass
Screw/torque	M2.6 steel zinc plated, 0.4Nm

TYPE NO.	POLES	LENGTH
CTBA1301/2A	2	10mm
CTBA1301/3A	3	15mm
CTBA1301/4A	4	20mm
CTBA1301/5A	5	25mm
CTBA1301/6A	6	30mm
CTBA1301/7A	7	35mm
CTBA1301/8A	8	40mm
CTBA1301/9A	9	45mm
CTBA1301/10A	10	50mm
CTBA1301/11A	11	55mm
CTBA1301/12A	12	60mm



## 5mm Pitch 24 Pin Strip Header

- Supplied in 24 way
- Easily cut to required length
- Can be supplied pre-cut
- Flame retardant Polyester material
- Anti solder wicking
- Guided pin alignment
- Single pin available (CTBA1301P)

CTBA1301 Pin Strip

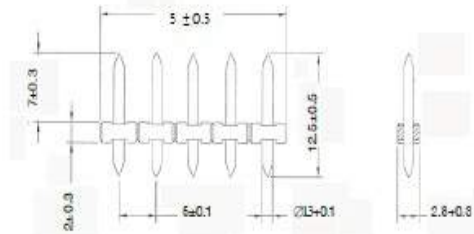
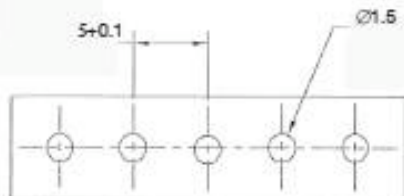


### SPECIFICATION

Rating	15A/300V
Insulation withstands volt	2000V min
Insulation resistance	2000MΩ
Working temperature	-33°C to +105°C
Short period	160°C
Soldering condition	260°C/ 5 seconds
Moulding	UL94-V0 flame retardant glass filled polyester
Pins	Tinned 3-5µm, brass
Recommended PCB hole size	ø1.5mm

TYPE NO.	POLES
CTBA1301P	1 Pin
CTBA1301/PS24	24 way Pin strip

### Recommended PCB Layout



# PCB TERMINAL BLOCKS

## 10mm Pitch Pluggable for Vertical or 90° mounting Screw Terminal

- 2-12 pole interlocking
- Pluggable via header pins
- Test probe facility
- Dual horizontal or vertical mounting
- Moulded in black UL94-V0 flame retardant glass filled Polyester
- Wire protector terminals
- 1.5mm<sup>2</sup> cable entry
- Captive screws
- cULus approved

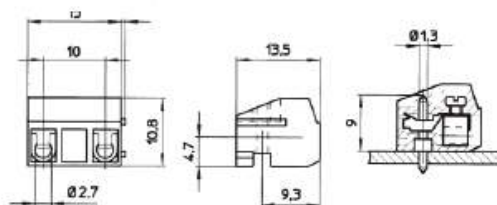
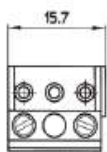
CTB2301



### SPECIFICATION

Rating	10A/630V
Dielectric strength	≥2kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant glass filled polyester
Terminal	Tinned, nickel plated brass
Screw/torque	M2.5 steel zinc plated, 0.4Nm
Recommended PCB hole size	ø1.3mm

TYPE NO.	POLES	LENGTH
CTB2301/1A	1	10mm
CTB2301/1A/15	1	15mm
CTB2301/2A	2	15mm
CTB2301/3A	3	25mm
CTB2301/4A	4	35mm
CTB2301/5A	5	45mm
CTB2301/6A	6	55mm
CTB2301/7A	7	65mm
CTB2301/8A	8	75mm
CTB2301/9A	9	85mm
CTB2301/10A	10	95mm
CTB2301/11A	11	105mm
CTB2301/12A	12	115mm



## 10mm Pitch 12 Pin Strip Header

- Supplied as 12 way
- Easily cut to required length
- Can be supplied pre-cut
- Flame retardant Polyester material
- Anti-solder wicking
- Guided pin alignment
- Single pin available (CTB2301P)

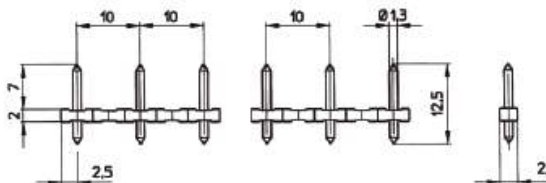
CTB2301 Pin Strip



TYPE NO.	POLES
CTB2301P	1
CTB2301/PS12	12

### SPECIFICATION

Rating	10A/750V
Moulding	UL94-V0 flame retardant Lexan
Terminal	Tinned, nickel plated brass
Recommended PCB hole size	ø1.5mm



PCB  
TERMINAL  
BLOCKS

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# PCB TERMINAL BLOCKS

## 5mm Pitch Pluggable for Vertical or 90° mounting Rising Clamp Terminal

- Unique 36 pole strip
- Easily cut to required number of poles
- Can be supplied pre-cut to specified number of poles
- Dual horizontal or vertical mounting
- Moulded in grey UL94-V0 flame retardant PC
- Professional rising clamp terminals
- 0.2-2.5mm<sup>2</sup> (24-12AWG) solid & stranded cable
- Optional polarising clips
- Anti solder wicking
- Guided pin alignment
- Captive screws
- CE, RoHS, REACH approved

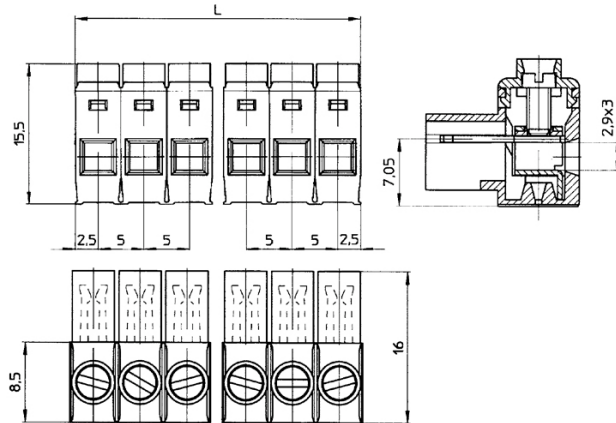
### SPECIFICATION

Rating	16A/250V UL=14A/300V, VDE&IMQ=16A/250V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	130°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Zinc plated steel
Screw/torque	M2.5 steel zinc plated, 0.4Nm
Recommended PCB hole size	ø1.3mm

### Female connector

TYPE NO.	POLES	LENGTH
CTB7300/2F	2	10mm
CTB7300/3F	3	15mm
CTB7300/4F	4	20mm
CTB7300/5F	5	25mm
CTB7300/6F	6	30mm
CTB7300/7F	7	35mm
CTB7300/8F	8	40mm
CTB7300/9F	9	45mm
CTB7300/10F	10	50mm
CTB7300/11F	11	55mm
CTB7300/12F	12	60mm
CTB7300/36F	36	180mm

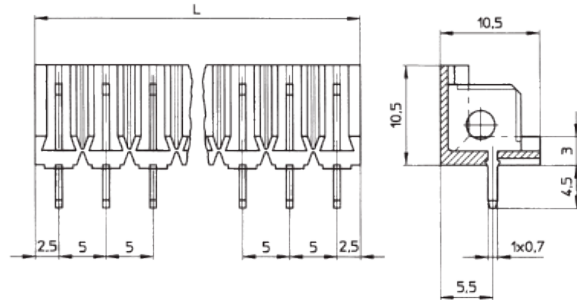
CTB7300/F



### PCB mounting male

TYPE NO.	POLES	LENGTH
CTB7300/2M	2	10mm
	3	15mm
	4	20mm
	5	25mm
	6	30mm
	7	35mm
	8	40mm
	9	45mm
	10	50mm
	11	55mm
	12	60mm
	36	180mm

CTB7300/M



### Polarising Clip

TYPE NO.	POLES	LENGTH
CTB7300C	1 pair	

Fitted to each end of the male connector ensures correct vertical or horizontal orientation of the female part


CTB7300/C



# PCB TERMINAL BLOCKS

## 10mm Pitch Pluggable for Vertical or 90° Mounting Rising Clamp Terminal

- Unique 18 pole strip
- Easily cut to required number of poles
- Can be supplied pre-cut to specified number of poles
- Dual horizontal or vertical mounting
- Moulded in grey UL94-V0 flame retardant PC

- Professional rising clamp terminals
- 0.2-2.5mm<sup>2</sup> (24-12AWG) solid & stranded cable
- Optional polarising clips
- Anti solder wicking
- Guided pin alignment
- Captive screws
-  approved

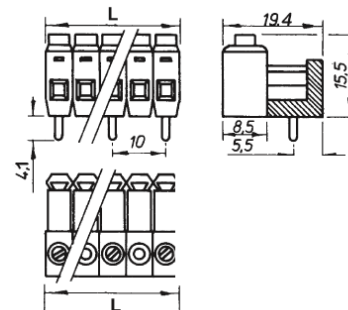
### SPECIFICATION

Rating	16A/500V
	UL=14A/300V, VDE&IMQ=16A/500V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	130°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Zinc plated steel
Screw/torque	M2.5 steel zinc plated, 0.4Nm
Recommended PCB hole size	ø1.3mm

### Female Connector

TYPE NO.	POLES	LENGTH
CTB8300/2F	2	15mm
CTB8300/3F	3	25mm
CTB8300/4F	4	35mm
CTB8300/5F	5	45mm
CTB8300/6F	6	55mm
CTB8300/7F	7	65mm
CTB8300/8F	8	75mm
CTB8300/9F	9	85mm
CTB8300/10F	10	95mm
CTB8300/11F	11	105mm
CTB8300/12F	12	115mm
CTB8300/18F	18	175mm

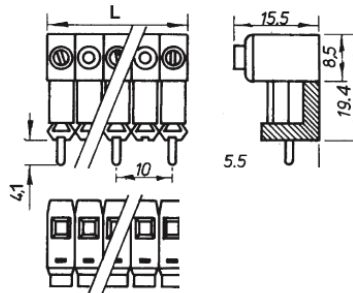
CTB8300/F



### PCB Mounting Male

TYPE NO.	POLES	LENGTH
CTB8300/2M	2	15mm
CTB8300/3M	3	25mm
CTB8300/4M	4	35mm
CTB8300/5M	5	45mm
CTB8300/6M	6	55mm
CTB8300/7M	7	65mm
CTB8300/8M	8	75mm
CTB8300/9M	9	85mm
CTB8300/10M	10	95mm
CTB8300/11M	11	105mm
CTB8300/12M	12	115mm
CTB8300/18M	18	175mm

CTB8300/M



### Polarising Clip

TYPE NO.	
CTB7300C	1 pair

Fitted to each end of the male connector ensures correct vertical or horizontal orientation of the female part

CTB7300/C



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TERMINAL  
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# PCB TERMINAL BLOCKS

## Screwless Terminal Block

- Unique 36 pole strip 5 & 5.08mm pitch
- 1-36 poles 5, 5.08mm pitch
- 1-24 poles 7.5, 7.62mm pitch
- 1-18 poles 10, 10.16mm pitch
- Screwless
- Easily breakable to desired number of poles, end walls available on request
- Moulded in grey UL94-V0 flame retardant PA
- 0.5-1.5mm<sup>2</sup> (30-16AWG)
- solid & stranded cable
- Guided pin alignment
- Anti solder wicking
- Spacers in 2.5, 2.54, 5 & 5.08mm available
- Full customisation, produced from 1 pole units which can be pre-assembled to individual requirements
- Available without actuators (screwdriver operation) add suffix /W
-  approved

SPECIFICATION	5mm, 5.08mm	7.5mm, 7.62mm	10mm, 10.16mm
Rating	10A/250	10A/500V	10A/630V
UL	10A/300V	10A/300V	10A/300V
VDE&IMQ	10A/250V	10A/750V	10A/750V
Dielectric strength	≥2.5kV	≥3kV	
Impulse withstand voltage	6kV		
Working temperature	110°C		
Moulding	UL94-V0 flame retardant PA		
Pin/terminal	Tinned phosphor bronze		
Spring	Zinc plated steel		
Recommended PCB hole	ø1.1mm		

### 5mm, 5.08mm Pitch

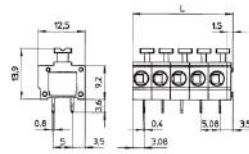
TYPE NO.	POLES	LENGTH
CSTBV1/1	1	6.5mm
CSTBV1/2	2	11.5mm
CSTBV1/3	3	16.5mm
CSTBV1/4	4	21.5mm
CSTBV1/5	5	26.5mm
CSTBV1/6	6	31.5mm
CSTBV1/7	7	36.5mm
CSTBV1/8	8	41.5mm
CSTBV1/9	9	46.5mm
CSTBV1/10	10	51.5mm
CSTBV1/11	11	56.5mm
CSTBV1/12	12	61.5mm
CSTBV1/36	36	181.5mm

### 5.08mm

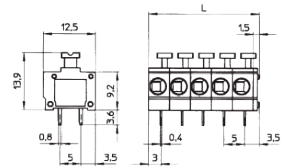
TYPE NO.	POLES	LENGTH
CSTBV2/1	1	6.6mm
CSTBV2/2	2	11.7mm
CSTBV2/3	3	16.7mm
CSTBV2/4	4	21.8mm
CSTBV2/5	5	26.9mm
CSTBV2/6	6	32mm
CSTBV2/7	7	37.1mm
CSTBV2/8	8	42.1mm
CSTBV2/9	9	47.2mm
CSTBV2/10	10	52.3mm
CSTBV2/11	11	57.4mm
CSTBV2/12	12	62.5mm
CSTBV2/36	36	184.4mm



CSTBV1



CSTBV2



### 7.5mm, 7.62mm Pitch

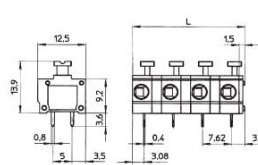
TYPE NO.	POLES	LENGTH
CSTBV3/2	2	14mm
CSTBV3/3	3	21.5mm
CSTBV3/4	4	29mm
CSTBV3/5	5	36.5mm
CSTBV3/6	6	44mm
CSTBV3/7	7	51.5mm
CSTBV3/8	8	59mm
CSTBV3/9	9	66.5mm
CSTBV3/10	10	74.5mm
CSTBV3/11	11	81.5mm
CSTBV3/12	12	89mm
CSTBV3/24	24	179mm

### 7.62mm

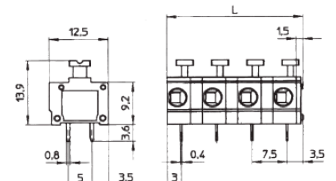
TYPE NO.	POLES	LENGTH
CSTBV4/2	2	14.2mm
CSTBV4/3	3	21.8mm
CSTBV4/4	4	29.5mm
CSTBV4/5	5	37.1mm
CSTBV4/6	6	44.7mm
CSTBV4/7	7	52.3mm
CSTBV4/8	8	59.9mm
CSTBV4/9	9	67.5mm
CSTBV4/10	10	75.2mm
CSTBV4/11	11	82.8mm
CSTBV4/12	12	90.4mm
CSTBV4/24	24	181.8mm



CSTBV3



CSTBV4



### 10mm, 10.16mm Pitch

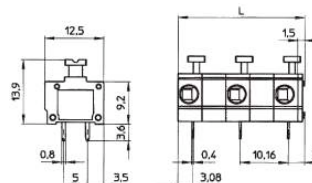
TYPE NO.	POLES	LENGTH
CSTBV5/2	2	16.5mm
CSTBV5/3	3	26.5mm
CSTBV5/4	4	36.5mm
CSTBV5/5	5	46.5mm
CSTBV5/6	6	56.5mm
CSTBV5/12	12	116.50
CSTBV5/18	18	176.50

### 10.16mm

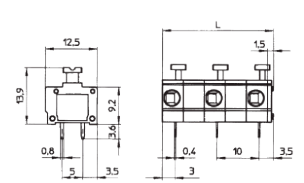
TYPE NO.	POLES	LENGTH
CSTBV6/2	2	16.7mm
CSTBV6/3	3	26.9mm
CSTBV6/4	4	37.1mm
CSTBV6/5	5	47.2mm
CSTBV6/6	6	57.4mm
CSTBV6/12	12	118.3mm
CSTBV6/18	18	179.3mm



CSTBV5



CSTBV6

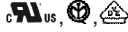


For without actuators, add suffix /W



# PCB TERMINAL BLOCKS

## Screwless Vertical Actuator 45° Terminal Block

- Interlocking modules
- 45 degree cable entry
- Kinked pins for soldering retention
- 0.5-1.5mm<sup>2</sup> (30-16AWG) solid & stranded cable
- Guided pin alignment
- Offset pinout allows greater voltage clearance
- End wall CTBV/EW available to order
-  approved

CSTB45VD



SPECIFICATION	3.5mm, 3.81mm	7mm, 7.62mm
Rating	4A/320V UL=4A/300V VDE&IMQ=4A/450V	4A/500V UL=4A/300V VDE&IMQ=4A/750V
Dielectric strength	≥ 2.5kV	
Impulse withstand voltage	4kV	
Working temperature	110°C	
Moulding	Grey UL 94 V0 flame retardant PA	
Pin/contact	Tinned nickel plated, brass	
Recommended PCB hole size	ø1mm	

### 3.5mm

TYPE NO.	POLES	LENGTH
CSTB45VD/2	2	8.5mm
CSTB45VD/3	3	12mm
CSTB45VD/4	4	15.5mm
CSTB45VD/5	5	19mm
CSTB45VD/6	6	22.5mm
CSTB45VD/7	7	26mm
CSTB45VD/8	8	29.5mm
CSTB45VD/9	9	33mm
CSTB45VD/10	10	36.5mm
CSTB45VD/11	11	40mm
CSTB45VD/12	12	43.5mm

### 7mm

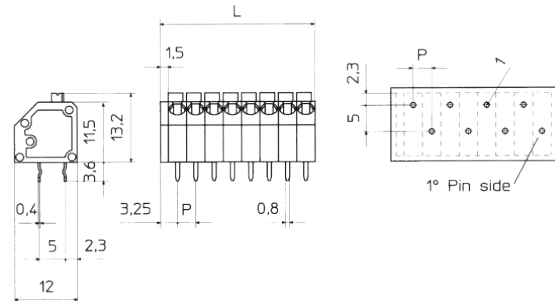
TYPE NO.	POLES	LENGTH
CSTB45VX/2	2	12mm
CSTB45VX/3	3	19mm
CSTB45VX/4	4	26mm
CSTB45VX/5	5	33mm
CSTB45VX/6	6	40mm
CSTB45VX/7	7	47mm
CSTB45VX/8	8	54mm
CSTB45VX/9	9	61mm
CSTB45VX/10	10	68mm
CSTB45VX/11	11	75mm
CSTB45VX/12	12	82mm

### 3.81mm


TYPE NO.	POLES	LENGTH
CSTB45VE/2	2	9.12mm
CSTB45VE/3	3	12.93mm
CSTB45VE/4	4	16.74mm
CSTB45VE/5	5	20.55mm
CSTB45VE/6	6	24.36mm
CSTB45VE/7	7	28.17mm
CSTB45VE/8	8	31.98mm
CSTB45VE/9	9	35.79mm
CSTB45VE/10	10	39.60mm
CSTB45VE/11	11	43.41mm
CSTB45VE/12	12	47.22mm

### 7.62mm

TYPE NO.	POLES	LENGTH
CSTB45VL/2	2	12.93mm
CSTB45VL/3	3	20.55mm
CSTB45VL/4	4	28.17mm
CSTB45VL/5	5	35.79mm
CSTB45VL/6	6	43.41mm
CSTB45VL/7	7	51.03mm
CSTB45VL/8	8	58.65mm
CSTB45VL/9	9	66.27mm
CSTB45VL/10	10	73.89mm
CSTB45VL/11	11	81.51mm
CSTB45VL/12	12	89.13mm



## 5.08mm Pitch Screwless 45° Terminal Block

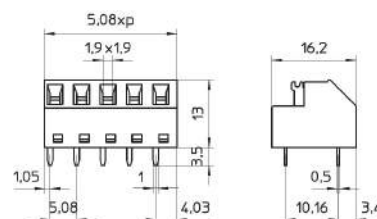
- 2-7 pole solid block
- Moulded in grey UL94-V0 flame retardant PA
- 0.5-1.5mm<sup>2</sup> (22-16AWG) solid & stranded cable
-  approved

CSTB



SPECIFICATION	
Rating	10A/250V UL=10A/300V, VDE&IMQ=10A/250V
Dielectric strength	≥4kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL 94 V0 flame retardant PA
Pin/terminal	Tinned, phosphor bronze
Spring	Zinc plated steel
Recommended PCB hole size	ø1.1mm

TYPE NO.	POLES	LENGTH
CSTB/2	2	10.16mm
CSTB/3	3	15.24mm
CSTB/4	4	20.32mm
CSTB/5	5	25.4mm
CSTB/6	6	30.48mm
CSTB/7	7	35.56mm



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Ver 1.0

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# PCB TERMINAL BLOCKS

## 5.08mm & 10.16mm Pitch Screwless Top Entry

- 2-24 pole solid block  
5.08mm pitch
- 1-10 pole solid block  
10.16mm pitch
- Top entry for cable and release point
- Moulded in grey UL94-V0 Flame retardant PA
- 0.5-1.5mm<sup>2</sup> (30-16AWG) solid & stranded cable
-  approved

CSTBV23



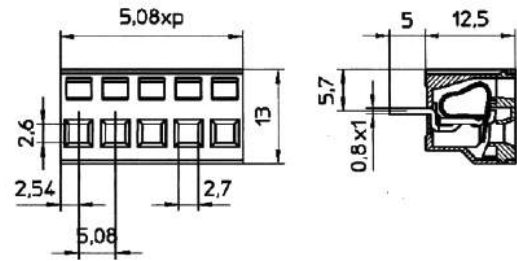
SPECIFICATION	5.08mm	10.16mm
Rating	16A/320V UL=10A/300V VDE&IMQ=16A/450V	16A/630V UL=10A/300V VDE&IMQ=16A/750V
Dielectric strength	≥ 2.5kV	≥ 3kV
Impulse withstand voltage	4kV	6kV
Working temperature	110°C	
Moulding	Grey UL 94 V0 flame retardant PA	
Pin/contact	Tinned, nickel phosphor bronze	
Spring	Stainless Steel	
Recommended PCB hole size	ø1.1mm	

### 5.08mm

TYPE NO.	POLES	LENGTH
CSTBV23/2	2	10.2mm
CSTBV23/3	3	15.2mm
CSTBV23/4	4	20.3mm
CSTBV23/5	5	25.4mm
CSTBV23/6	6	30.5mm
CSTBV23/7	7	35.6mm
CSTBV23/8	8	40.6mm
CSTBV23/9	9	45.7mm
CSTBV23/10	10	50.8mm
CSTBV23/11	11	55.9mm
CSTBV23/12	12	61mm
CSTBV23/13	13	66mm
CSTBV23/14	14	71.1mm
CSTBV23/15	15	76.2mm
CSTBV23/16	16	81.3mm
CSTBV23/17	17	86.4mm
CSTBV23/18	18	91.4mm
CSTBV23/19	19	96.5mm
CSTBV23/20	20	101.6mm
CSTBV23/21	21	106.7mm
CSTBV23/22	22	111.8mm
CSTBV23/23	23	121.9mm


### 10.16mm

TYPE NO.	POLES	LENGTH
CSTBV23P/1	1	10.2mm
CSTBV23P/2	2	20.3mm
CSTBV23P/3	3	30.5mm
CSTBV23P/4	4	40.6mm
CSTBV23/P5	5	50.8mm
CSTBV23P/6	6	61mm
CSTBV23P/7	7	71.1mm
CSTBV23P/8	8	81.3mm
CSTBV23P/9	9	91.4mm
CSTBV23P/10	10	101.6mm



# PCB TERMINAL BLOCKS

## 2.5mm Pitch Screwless Terminal Block

- Interlocking modules
- 45° degree cable entry
- Lever actuator cable release
- Moulded in UL94-V0 flame retardant PA66
- 0.2-0.5mm<sup>2</sup> (28-20AWG) solid cable
-  Approved

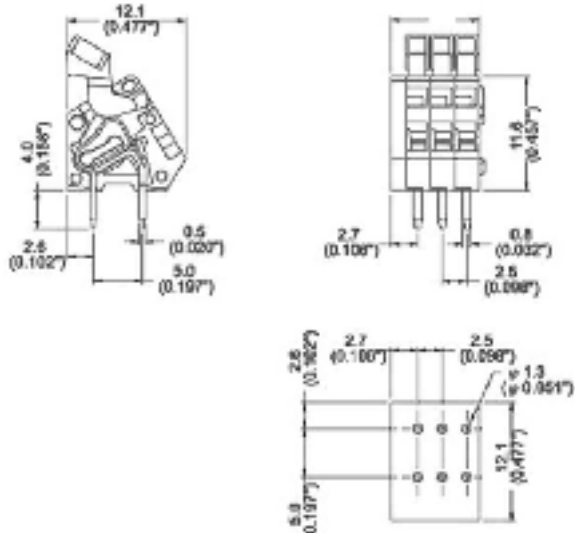
CSTBA45VC




### SPECIFICATION

Rating	4A/130V
	UL=4A/150V, VDE=6A/130V
Operating temperature	-40°C to 105°C
Spring	Stainless strip steel
Pin Terminal	Brass/Tin Plated
PCB Hole Diameter	Ø1.3mm

TYPE NO.	LENGTH	TYPE NO.	LENGTH
CSTBA45VC/2	6.5mm	CSTBA45VC/14	36.5mm
CSTBA45VC/3	9.0mm	CSTBA45VC/15	39.0mm
CSTBA45VC/4	11.5mm	CSTBA45VC/16	41.5mm
CSTBA45VC/5	14.0mm	CSTBA45VC/17	44.0mm
CSTBA45VC/6	16.5mm	CSTBA45VC/18	46.5mm
CSTBA45VC/7	19.0mm	CSTBA45VC/19	49.0mm
CSTBA45VC/8	21.5mm	CSTBA45VC/20	51.5mm
CSTBA45VC/9	24.0mm	CSTBA45VC/21	54.0mm
CSTBA45VC/10	26.0mm	CSTBA45VC/22	56.5mm
CSTBA45VC/11	29.0mm	CSTBA45VC/23	59.0mm
CSTBA45VC/12	31.5mm	CSTBA45VC/24	61.5mm
CSTBA45VC/13	34.0mm		



## 3.81mm Pitch Screwless Vertical Terminal Block

- Interlockable screwless terminal blocks supplied in 2 to 24-pole blocks
- Horizontal wire entry
- Kinked PCB pins for improved board retention
- Accepts 20-16AWG solid and stranded cable
-  approved

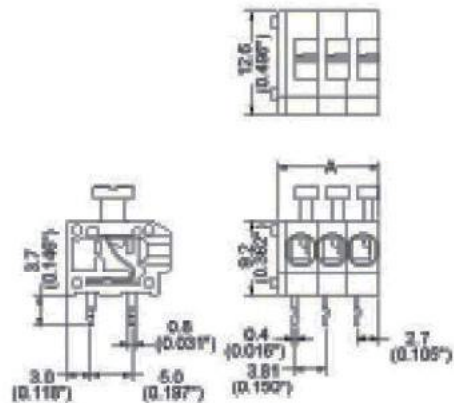
CSTBAE



### SPECIFICATION

Rating	10A/300V
Dielectric strength	≥ 2.5kV
Working temperature	-40°C to +105°C
Moulding	Grey UL 94 V0 flame retardant PA
Pin/contact	Tinned nickel plated, brass
Recommended PCB hole	Ø1.2mm

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CSTBAE/2	2	8.5mm	CSTBAE/14	14	54.2mm
CSTBAE/3	3	12.3mm	CSTBAE/15	15	58mm
CSTBAE/4	4	16.1mm	CSTBAE/16	16	61.8mm
CSTBAE/5	5	19.9mm	CSTBAE/17	17	65.6mm
CSTBAE/6	6	23.7mm	CSTBAE/18	18	69.4mm
CSTBAE/7	7	27.5mm	CSTBAE/19	19	73.2mm
CSTBAE/8	8	31.3mm	CSTBAE/20	20	77.1mm
CSTBAE/9	9	35.1mm	CSTBAE/21	21	80.9mm
CSTBAE/10	10	39mm	CSTBAE/22	22	84.7mm
CSTBAE/11	11	42.8mm	CSTBAE/23	23	88.5mm
CSTBAE/12	12	46.6mm	CSTBAE/24	24	92.3mm
CSTBAE/13	13	50.4mm			



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# INTERCONNECTION

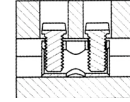
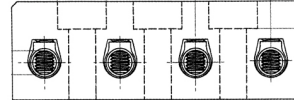
## High Temperature Resistant Connection Blocks

- Porcelain body rated to 1000°C
- Inserts rated to 350°C
- 1 to 4 poles available
- 3, 3.5, 4.4 and 6mm insert diameter sizes
- C € marked



### SPECIFICATION

Voltage (max)	450V AC
Working temperature	5°C to 350°C
Insulating body	Porcelain (DIN 40685)
Insert	Nickel-plated brass
Screws	Zinc-plated steel CQ-15



TYPE NO.	POLES	MAX. CURRENT	INSERT DIAMETER	MAX. CONDUCTOR:		LENGTH	WIDTH	HEIGHT	MOUNTING HOLE SIZE:		TERMINAL:	
				RIGID	FLEXIBLE				DIAMETER	SCREW HEAD	PITCH	SCREWS
CHTB4/1N	1	32A	3mm	4mm <sup>2</sup>	4mm <sup>2</sup>	10mm	18mm	17mm	-	-	-	M2.6
CHTB4/2N	2	32A	3mm	4mm <sup>2</sup>	4mm <sup>2</sup>	21.5mm	18mm	17mm	4.5mm	6.9mm	11.5mm	M2.6
CHTB4/3N	3	32A	3mm	4mm <sup>2</sup>	4mm <sup>2</sup>	33mm	18mm	17mm	4.5mm	6.9mm	11.5mm	M2.6
CHTB4/4N	4	32A	3mm	4mm <sup>2</sup>	4mm <sup>2</sup>	44.5mm	18mm	17mm	4.5mm	6.9mm	11.5mm	M2.6
CHTB6/1N	1	41A	3.5mm	6mm <sup>2</sup>	4mm <sup>2</sup>	11mm	20mm	17.5mm	-	-	-	M3
CHTB6/2N	2	41A	3.5mm	6mm <sup>2</sup>	4mm <sup>2</sup>	23.5mm	20mm	17.5mm	4.5mm	7.5mm	12.5mm	M3
CHTB6/3N	3	41A	3.5mm	6mm <sup>2</sup>	4mm <sup>2</sup>	36mm	20mm	17.5mm	4.5mm	7.5mm	12.5mm	M3
CHTB6/4N	4	41A	3.5mm	6mm <sup>2</sup>	4mm <sup>2</sup>	48.5mm	20mm	17.5mm	4.5mm	7.5mm	12.5mm	M3
CHTB10/1N	1	57A	4.4mm	10mm <sup>2</sup>	6mm <sup>2</sup>	12mm	22mm	18mm	-	-	-	M3.5
CHTB10/2N	2	57A	4.4mm	10mm <sup>2</sup>	6mm <sup>2</sup>	26mm	22mm	18mm	5mm	8.5mm	14mm	M3.5
CHTB10/3N	3	57A	4.4mm	10mm <sup>2</sup>	6mm <sup>2</sup>	40mm	22mm	18mm	5mm	8.5mm	14mm	M3.5
CHTB10/4N	4	57A	4.4mm	10mm <sup>2</sup>	6mm <sup>2</sup>	54mm	22mm	18mm	5mm	8.5mm	14mm	M3.5
CHTB16/1N	1	76A	6mm	16mm <sup>2</sup>	10mm <sup>2</sup>	16mm	30mm	23mm	-	-	-	M4
CHTB16/2N	2	76A	6mm	16mm <sup>2</sup>	10mm <sup>2</sup>	34mm	30mm	23mm	5mm	9mm	17.5mm	M4
CHTB16/3N	3	76A	6mm	16mm <sup>2</sup>	10mm <sup>2</sup>	52mm	30mm	23mm	5mm	9mm	17.5mm	M4
CHTB16/4N	4	76A	6mm	16mm <sup>2</sup>	10mm <sup>2</sup>	70mm	30mm	23mm	5mm	9mm	17.5mm	M4

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# INTERCONNECTION

## 12 Way Nylon Terminal Strips

- Moulded from Natural PA6 (standard, CTSN400), Cream PA66 (CTSN500,) Grey PA66 Glass fibre (CTSN600)
- Available with or without wire protection
- UL94-V2 Self extinguishing as standard
- V0 types pass 960°C glow-wire test
- Easily cut to size
- Can also be supplied pre-cut
- Can be printed on request
- Closed inserts (middle barrier) option
- Captive terminal screws
- CE, RoHS, REACH & UL approvals



### SPECIFICATION

Voltage	CTSN431-433	450VAC
	CTSN434-438	750VAC (UL600VAC)
Working temperature	CTSN400	-30°C to +110°C
	CTSN500	-30°C to +110°C
	CTSN600	-5°C to +180°C
Moulding	CTSN400	UL94-V2 PA6
	CTSN500	UL94-V0 PA66
	CTSN600	UL94-V0 PA66 + GF
Standard insert	Nickel-plated brass	
Terminal screws	Zinc-plated steel CQ-15	
Wire protectors	Stainless steel	

Part Numbers shown are for standard PA6 material (e.g. CTSN433/12)

For CTSN500 PA66 material change first number to 5 (e.g. CTSN533/12)

For CTSN600 PA66+GF material change first number to 6 (e.g. CTSN633/12)

### Standard Type

TYPE NO.	PITCH / UL WIRE		INSERT DIAMETER	CABLE ACCEPTANCE	TERMINAL SCREWS	LENGTH	WIDTH	HEIGHT	PITCH	FIXING HOLE DIAMETER	MAX CURRENT
	RATING	PROTECTION									
CTSN431/12W	8mm/20A	No	3.2mm	4.0mm <sup>2</sup> /12AWG	M3	94mm	18mm	15.5mm	8mm	2.8mm	32A
CTSN431/12	8mm/15A	Yes	3.2mm	2.5mm <sup>2</sup> /14AWG	M3	94mm	18mm	15.5mm	8mm	2.8mm	32A
CTSN433/12W	10mm/30A	No	3.5mm	6.0mm <sup>2</sup> /10AWG	M3	116mm	21mm	16mm	9.95mm	2.8mm	41A
CTSN433/12	10mm/20A	Yes	3.5mm	4.0mm <sup>2</sup> /12AWG	M3	116mm	21mm	16mm	9.95mm	2.8mm	41A
CTSN434/12W	12mm/50A	No	4.4mm	10.0mm <sup>2</sup> /8AWG	M3.5	140mm	23mm	18.5mm	12mm	2.8mm	57A
CTSN434/12	12mm/30A	Yes	4.4mm	6.0mm <sup>2</sup> /10AWG	M3.5	140mm	23mm	18.5mm	12mm	2.8mm	57A
CTSN435/12W	14mm/65A	No	6.0mm	16.0mm <sup>2</sup> /6AWG	M4	166mm	29mm	23mm	14mm	3.5mm x 6.4 slot	76A
CTSN435/12	14mm/65A	Yes	6.0mm	10.0mm <sup>2</sup> /8AWG	M4	166mm	29mm	23mm	14mm	3.5mm x 6.4 slot	76A
CTSN438/12W	18mm/85A	No	7.5mm	25.0mm <sup>2</sup> /4AWG	M5	205mm	36.5mm	30.5mm	17.4mm	3.4mm	101A

### Raised Base

TYPE NO.	PITCH / UL WIRE		INSERT DIAMETER	CABLE ACCEPTANCE	TERMINAL SCREWS	LENGTH	WIDTH	HEIGHT	PITCH	FIXING HOLE DIAMETER	MAX CURRENT
	RATING	PROTECTION									
CTSN431/12WR	8mm/20A	No	3.2mm	4.0mm <sup>2</sup> /12AWG	M3	94mm	18mm	17.2mm	8mm	2.8mm	32A
CTSN431/12R	8mm/20A	Yes	3.2mm	2.5mm <sup>2</sup> /14AWG	M3	94mm	18mm	17.2mm	8mm	2.8mm	32A
CTSN433/12WR	10mm/30A	No	3.5mm	6.0mm <sup>2</sup> /10AWG	M3	116mm	21mm	17.8mm	10mm	2.8mm	41A
CTSN433/12R	10mm/30A	Yes	3.5mm	4.0mm <sup>2</sup> /12AWG	M3	116mm	21mm	17.8mm	10mm	2.8mm	41A
CTSN434/12WR	12mm/50A	No	4.4mm	10.0mm <sup>2</sup> /8AWG	M3.5	140mm	23mm	20.5mm	12mm	2.8mm	57A
CTSN434/12R	12mm/50A	Yes	4.4mm	6.0mm <sup>2</sup> /10AWG	M3.5	140mm	23mm	20.5mm	12mm	2.8mm	57A
CTSN435/12WR	14mm/65A	No	6.0mm	16.0mm <sup>2</sup> /6AWG	M4	166mm	29mm	25.8mm	14mm	3.5mm x 6.4 slot	76A
CTSN435/12R	14mm/65A	Yes	6.0mm	10.0mm <sup>2</sup> /8AWG	M4	166mm	29mm	25.8mm	14mm	3.5mm x 6.4 slot	76A

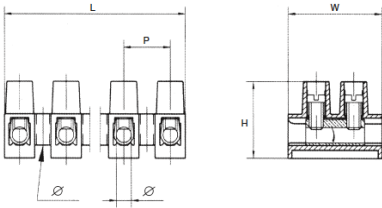
### Alternative Options

TYPE NO.	PITCH / UL WIRE		INSERT DIAMETER	CABLE ACCEPTANCE	TERMINAL SCREWS	LENGTH	WIDTH	HEIGHT	PITCH	FIXING HOLE DIAMETER	MAX CURRENT
	RATING	PROTECTION									
CTSN433/12WL	10mm/30A	No	3.5mm	6.0mm <sup>2</sup> /10AWG	M3	116mm	31mm	16.8mm	10mm	2.8mm	41A
CTSN433/12L	10mm/30A	Yes	3.5mm	4.0mm <sup>2</sup> /12AWG	M3	116mm	31mm	16.8mm	10mm	2.8mm	41A
CTSN433/12WLC	10mm/30A	No	3.5mm	6.0mm <sup>2</sup> /10AWG	M3	116mm	31mm	21.5mm	10mm	2.8mm	41A
CTSN433/12LC	10mm/30A	Yes	3.5mm	4.0mm <sup>2</sup> /12AWG	M3	116mm	21mm	17.6mm	9.95mm	3.6mm	41A
CTSN433/12WS	10mm/30A	No	3.5mm	6.0mm <sup>2</sup> /10AWG	M3	116mm	21mm	17.3mm	10mm pin	3.5mm drill	41A
CTSN433/12S	10mm/30A	Yes	3.5mm	4.0mm <sup>2</sup> /12AWG	M3	116mm	21mm	17.3mm	10mm pin	3.5mm drill	41A
CTSN433/12WQ	10mm/30A	No	3.5mm	6.0mm <sup>2</sup> /10AWG	M3	116mm	21mm	18.1mm	9.95mm	2.8mm	41A
CTSN433/12Q	10mm/30A	Yes	3.5mm	4.0mm <sup>2</sup> /12AWG	M3	116mm	21mm	18.1mm	9.95mm	2.8mm	41A

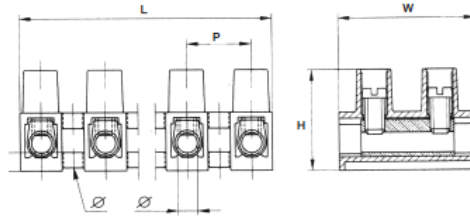


# INTERCONNECTION

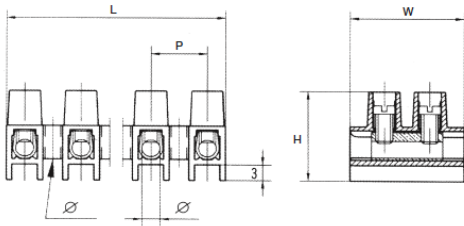
Standard type, no wire protection



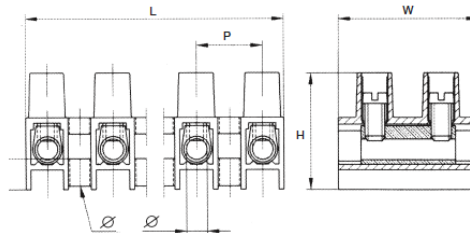
CTSN433/12T fast fixing hole between poles



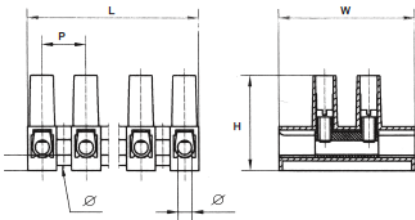
Raised base types - provides increased isolation



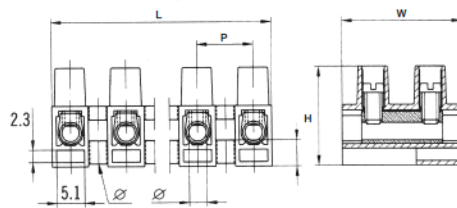
CTSN433/12TR fast fixing hole between poles and raised base



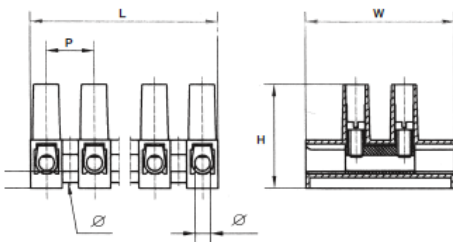
CTSN433/12LC larger isolating surface per pole and screw tower.  
Complies with EN60598/1 4.7 and 11.2



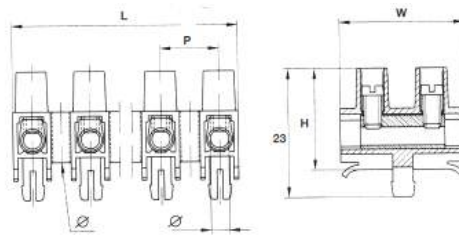
CTSN433/12TRG fast fixing hole between poles, raised base and socket in the base



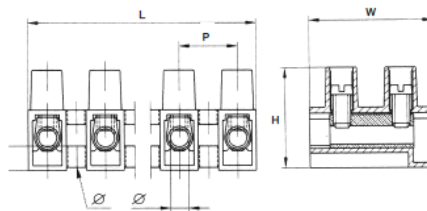
CTSN433/12L larger isolating surface per pole (750V, test voltage 3,000V)  
Complies with EN60598/1 4.7 and 11.2



CTSN433/12S fixing pin



CTSN433/12Q fixing hole between poles and wide base terminal connection



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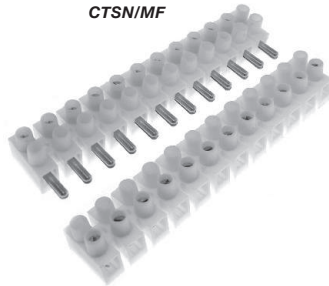
TRANS-  
FORMERS



# INTERCONNECTION

## Pluggable Terminal Strips Plug in Style

- Moulded in natural PA6, self extinguishing to UL94-V2 or white PA6.6, self extinguishing to UL94-V0
- Easily cut to size
- Available pre-cut to length
- CE Approved



### SPECIFICATION

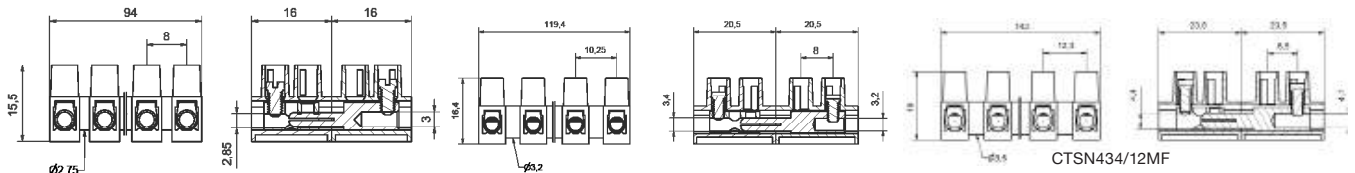
Voltage (max)	450V AC
Working temperature	110°C
No. of poles	12
Moulding	UL94-V2 Self extinguishing PA6 UL94-V0 Self extinguishing PA6.6
Conducting bush	Nikel plated brass
Screws	Zinc, plated steel

## UL94-V2 Material

TYPE NO.	SIZE / RATING	INSERT DIAMETER	TERMINAL SCREWS	LENGTH	WIDTH	HEIGHT	PITCH	FIXING HOLE DIAMETER	MAX CURRENT
CTSN431/12MF	8mm/6A	2.9mm	M3	94mm	16mm	15.5mm	8mm	2.75mm	17.5A
CTSN433/12MF	10.25mm/10A	3.4mm	M3	119.4mm	20.5mm	16.4mm	10.25mm	3.2mm	24A
CTSN434/12MF	12.5mm/16A	4.3mm	M3.5	143mm	23.5mm	19mm	12.3mm	3.5mm	57A

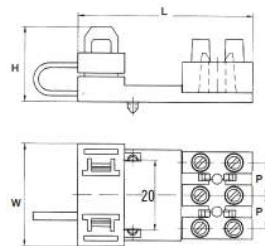
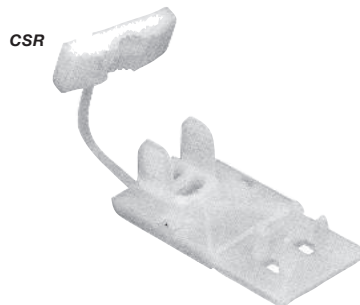
## UL94-V0 Material

TYPE NO.	SIZE / RATING	INSERT DIAMETER	TERMINAL SCREWS	LENGTH	WIDTH	HEIGHT	PITCH	FIXING HOLE DIAMETER	MAX CURRENT
CTSN631/12MF	8mm/6A	2.9mm	M3	94mm	16mm	15.5mm	8mm	2.75mm	17.5A
CTSN633/12MF	10.25mm/10A	3.4mm	M3	119.4mm	20.5mm	16.4mm	10.25mm	3.2mm	24A
CTSN634/12MF	12.5mm/16A	4.3mm	M3.5	143mm	23.5mm	19mm	12.3mm	3.5mm	57A

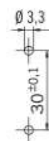


## Strain relief

- Clamps external conductors in lighting fixtures according to EN 60598
- Natural colour PA6
- Takes the strain on the wires
- Prevents conductors from twisting
- Protects wire coating from abrasion and friction





TYPE NO.	TERMINAL STRIP	LENGTH	WIDTH	HEIGHT
CSR1	CTSN431	49.5mm	31mm	22.5mm
CSR2	CTSN433 / CTSN433T	52.5mm	31mm	22.5mm
CSR3	CTSN434	54.5mm	31mm	22.5mm



Maximum plate thickness 1mm

# INTERCONNECTION

## PCB Mounted Terminal Strip

- 12 pole 10mm pitch strip
- Can be supplied cut to specified number of poles
- 2.5mm<sup>2</sup> cable entry
- Anti solder wicking terminals
- Captive screws
- Guided pin alignment
- Moulded in natural UL94-V2 flame retardant PA6
- Beige UL-V0 PA6.6 option to order
-  ,  approved

CTBSN100H

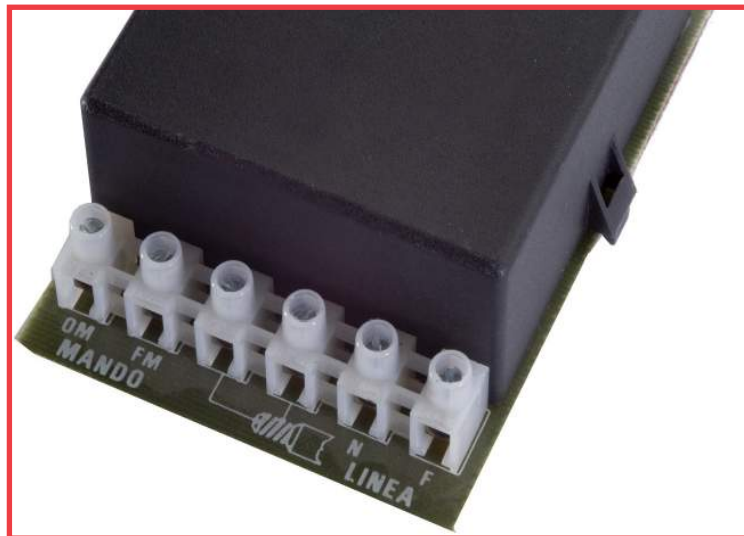
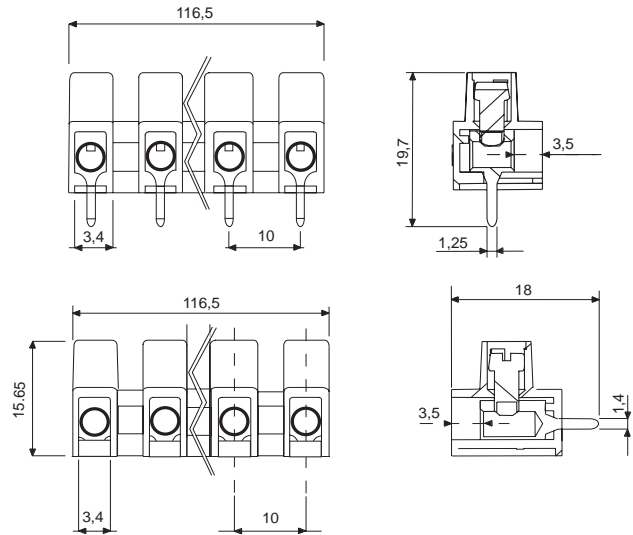


CTBSN100V



TYPE NO.	DESCRIPTION
CTBSN100V	vertical screw terminal
CTBSN100H	90° screw terminal

SPECIFICATION	
Rating	24A 450VAC
Glow wire test (EN 606 95-2-11)	960°C
Working temperature	-30°C to +110°C (PA6.6 to +150°C)
Moulding	UL94-V2 flame retardant PA6



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# INTERCONNECTION

## Easy Break Terminal Strips

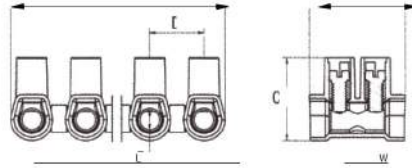
- Easily snapped to required number of poles
- No remaining burrs
- No tools needed to cut to length
- Moulded in natural UL94-V2 self extinguishing PA6, black optional
- Supplied with screws in raised position
- 12 poles
- Halogen free
- CE Approved

CTSOS

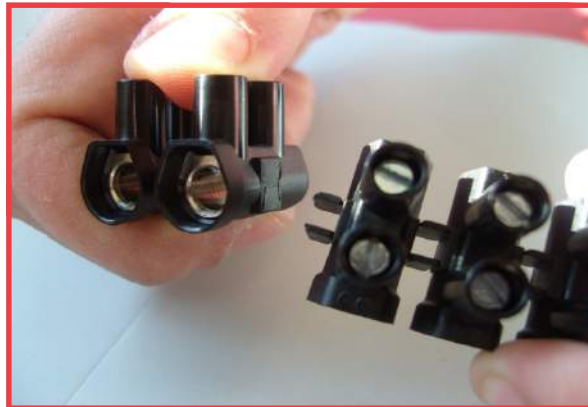


### SPECIFICATION

Voltage max	450V AC
Working temperature	-30°C to + 110°C
Moulding	UL94-V2 self extinguishing PA6
Insert	Nickel Plated Brass
Screws	Zinc-plated steel



TYPE NO.	CURRENT RATING	CONNECTING CAPACITY	MIN CONDUCTOR SECTION	LENGTH	WIDTH	HEIGHT	PITCH	TERMINAL SCREW
CTSOS431	24A	2.5mm <sup>2</sup>	1mm <sup>2</sup>	95.5mm	17.5mm	14.75mm	8mm	M3
CTSOS433	41A	6mm <sup>2</sup>	2.5mm <sup>2</sup>	118mm	19mm	15.6mm	10mm	M3
CTSOS434	57A	10mm <sup>2</sup>	4mm <sup>2</sup>	142mm	20.8mm	18.2mm	12mm	M3.5
CTSOS435	76A	16mm <sup>2</sup>	6mm <sup>2</sup>	160mm	23mm	21.2mm	13.5mm	M4
CTSOS438	125A	35mm <sup>2</sup>	16mm <sup>2</sup>	176.5mm	25.5mm	28mm	15mm	M5

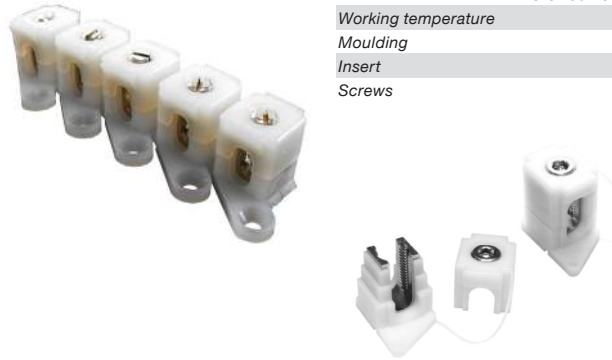


# INTERCONNECTION

## Line Taps

- Enables connecting of additional wires without cutting main conductor
- Capacity from 2x6mm<sup>2</sup> to 2x150mm<sup>2</sup>
- Up to 35mm<sup>2</sup> supplied as 12 pole strips, easily divided
- 50mm<sup>2</sup> and above supplied singularly, easily interlocked
- 50mm<sup>2</sup> and above available with Allen screws
- Supplied with raised screws
- Halogen free
- CE approved

CISB



### SPECIFICATION

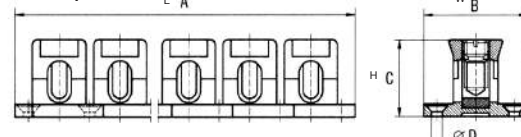
Voltage max	CISB6-35	500V
	CISB50-150	1000V
Working temperature	-30°C to + 110°C	
Moulding	Natural UL94-V2 self extinguishing PA6	
Insert	Nickel Plated Brass	
Screws	Zinc-plated brass	

TYPE NO.	POLES	CURRENT RATING	CAPACITY		LENGTH	WIDTH	HEIGHT	FIXING HOLE DIAMETER	TERMINAL SCREW	ALLEN SCREW OPTION
			MIN	MAX						
CISB6	12	41A	2x2.5mm <sup>2</sup>	2x6mm <sup>2</sup>	188mm	29mm	17mm	3.2mm	M5	
CISB10	12	57A	2x4mm <sup>2</sup>	2x10mm <sup>2</sup>	224mm	31mm	23mm	3.2mm	M7	
CISB16	12	76A	2x6mm <sup>2</sup>	2x16mm <sup>2</sup>	260mm	32mm	26mm	3.2mm	M8	
CISB35	12	125A	2x16mm <sup>2</sup>	2x35mm <sup>2</sup>	308mm	36mm	34mm	3.2mm	M12	
CISB50	1	150A	2x25mm <sup>2</sup>	2x50mm <sup>2</sup>	32mm	63mm	48mm	5.2mm	M14	5
CISB70	1	192A	2x35mm <sup>2</sup>	2x70mm <sup>2</sup>	34mm	63mm	53mm	5.2mm	M16	6
CISB95	1	232A	2x50mm <sup>2</sup>	2x95mm <sup>2</sup>	39mm	63mm	56mm	5.2mm	M18	8
CISB120	1	269A	2x70mm <sup>2</sup>	2x120mm <sup>2</sup>	41mm	70mm	61mm	5.2mm	M20	8
CISB150	1	309A	2x95mm <sup>2</sup>	2x150mm <sup>2</sup>	56.8mm	115mm	82mm	5.2mm	M28	14

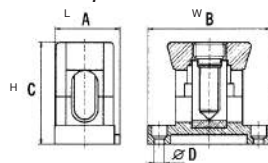
Allen Screw Option available on 1-pole types, add suffix /A to Type No. (e.g. CISB120/A)



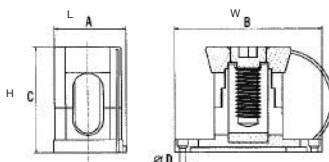
CISB 12 pole



CISB 1 pole



CISB 150



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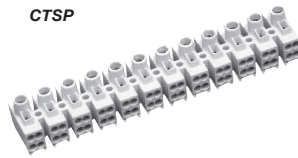


# INTERCONNECTION

## Screw to Screwless Terminal strips

- Moulded in UL94-V2 self extinguishing PA66
- Fast connection of two or four solid conductors
- Screw to screw earth terminal
- Raised screws for easier insertion of conductors
- 12-poles, 2-poles plus earth, 3-poles plus earth or 4-poles plus earth
- 12-pole types can be pre-cut to specified number of poles
- All earth types marked with symbols for Live, Earth and Neutral
- CE 72/73 and 93/68
- Compliant with EN60598 4.7 and 11.2 (EN60598/1 for CTS4P series)
- All tests from EN60998-1, EN60998-2-1 and EN60998-2-2
- approved

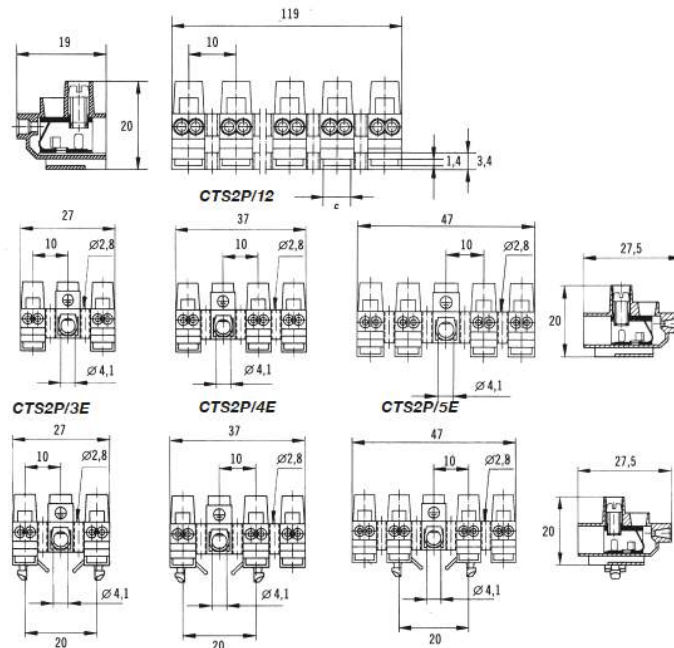
CTSP



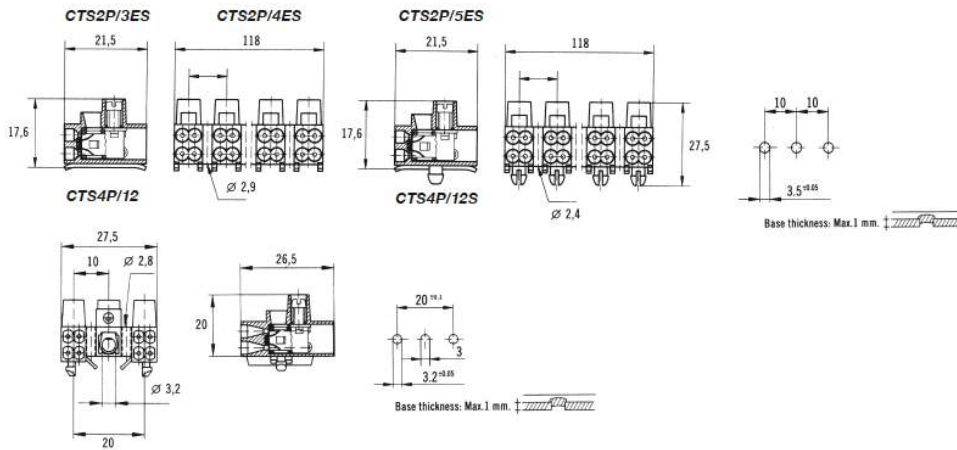
### SPECIFICATION

Ratings (max)	24A/450V	
Working temperature	110°C	
Moulding	UL94-V0 self extinguishing PA66	
Earth insert	Nickel-plated brass	
Push-in terminal	Insert	Steel
	Clamping spring	Stainless Steel
Fixing pitch	10mm	

TYPE NO.	POLES	CONNECTING CAPACITY		CONDUCTOR SECTION (MIN)		LENGTH	WIDTH	HEIGHT	EARTH INSERT	FIXING HOLE
		SCREW	FAST (RIGID)	SCREW	FAST (RIGID)				DIAMETER	DIAMETER
CTS2P/12	12	2.5mm <sup>2</sup>	2x 1.5mm <sup>2</sup>	1mm <sup>2</sup>	0.75mm <sup>2</sup>	119mm	19mm	20mm	-	2.8mm
CTS2P/3E	3 (2+earth)	2.5mm <sup>2</sup>	2x 1.5mm <sup>2</sup>	1mm <sup>2</sup>	0.75mm <sup>2</sup>	27mm	27.5mm	20mm	4.1mm	drill 3.2mm
CTS2P/3ES	3 (2+earth)	2.5mm <sup>2</sup>	2x 1.5mm <sup>2</sup>	1mm <sup>2</sup>	0.75mm <sup>2</sup>	27mm	27.5mm	20mm	4.1mm	drill 3.2mm
CTS2P/4E	4 (3+earth)	2.5mm <sup>2</sup>	2x 1.5mm <sup>2</sup>	1mm <sup>2</sup>	0.75mm <sup>2</sup>	37mm	27.5mm	20mm	4.1mm	2.8mm
CTS2P/4ES	4 (3+earth)	2.5mm <sup>2</sup>	2x 1.5mm <sup>2</sup>	1mm <sup>2</sup>	0.75mm <sup>2</sup>	37mm	27.5mm	20mm	4.1mm	drill 3.2mm
CTS2P/5E	5 (4+earth)	2.5mm <sup>2</sup>	2x 1.5mm <sup>2</sup>	1mm <sup>2</sup>	0.75mm <sup>2</sup>	47mm	27.5mm	20mm	4.1mm	2.8mm
CTS2P/5ES	5 (4+earth)	2.5mm <sup>2</sup>	2x 1.5mm <sup>2</sup>	1mm <sup>2</sup>	0.75mm <sup>2</sup>	47mm	27.5mm	20mm	4.1mm	drill 3.2mm
CTS4P/12	12	2.5mm <sup>2</sup>	4x 1.5mm <sup>2</sup>	1mm <sup>2</sup>	0.75mm <sup>2</sup>	118mm	21.5mm	17.6mm	-	2.9mm
CTS4P/12S	12	2.5mm <sup>2</sup>	4x 1.5mm <sup>2</sup>	1mm <sup>2</sup>	0.75mm <sup>2</sup>	118mm	21.5mm	17.6mm	-	drill 3.5mm
CTS4P/3ES	3 (2+earth)	2.5mm <sup>2</sup>	4x 1.0mm <sup>2</sup>	1mm <sup>2</sup>	0.75mm <sup>2</sup>	27.5mm	26.5mm	20mm	3.2mm	drill 3.2mm



# INTERCONNECTION

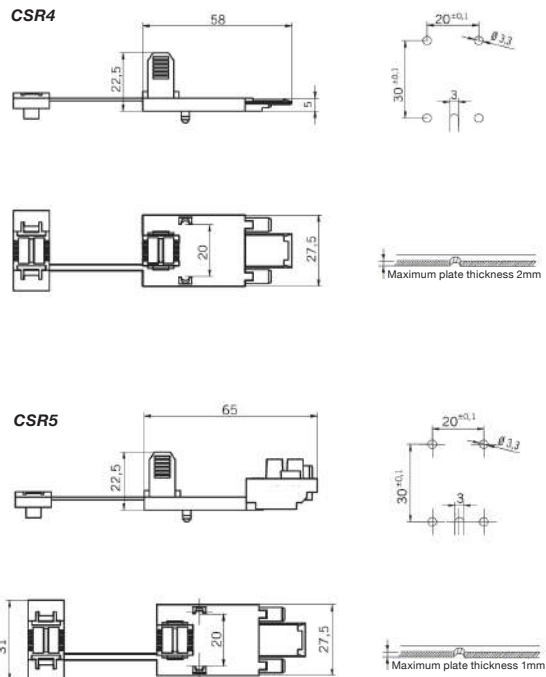


## Strain relief

- Clamps external conductors in lighting fixtures according to EN 60598
- Natural colour PA6
- Takes the strain on the wires
- Prevents conductors from twisting
- Protects wire coating from abrasion and friction



TYPE NO.	CONNECTOR TYPE NO.
CSR4	CTS2P/E & CTS2P/ES
CSR5	CTS4P/ES



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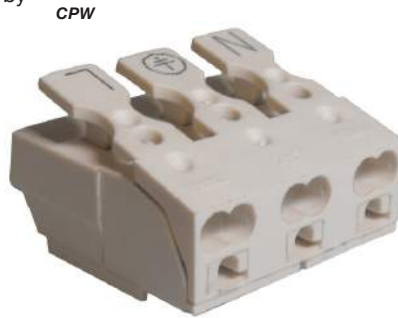
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# INTERCONNECTION

## Push-in Fast Connectors

- Screwless connectors for fast and secure wiring installations
- Installation side wires held by lever clamp
- Appliance side held by spring clamp
- Additional entry for cable capacitors
- Suitable for rigid & single strand copper wire
- Moulded in UL94-V0 self extinguishing PA66
- 2 to 5 poles
- Three different types of earth
- Fixing pin options
- Custom terminal markings available on request
- Halogen free
- CE, RoHS & REACH approvals
- Glow Wire Tested EN 60695-2-11



### SPECIFICATION

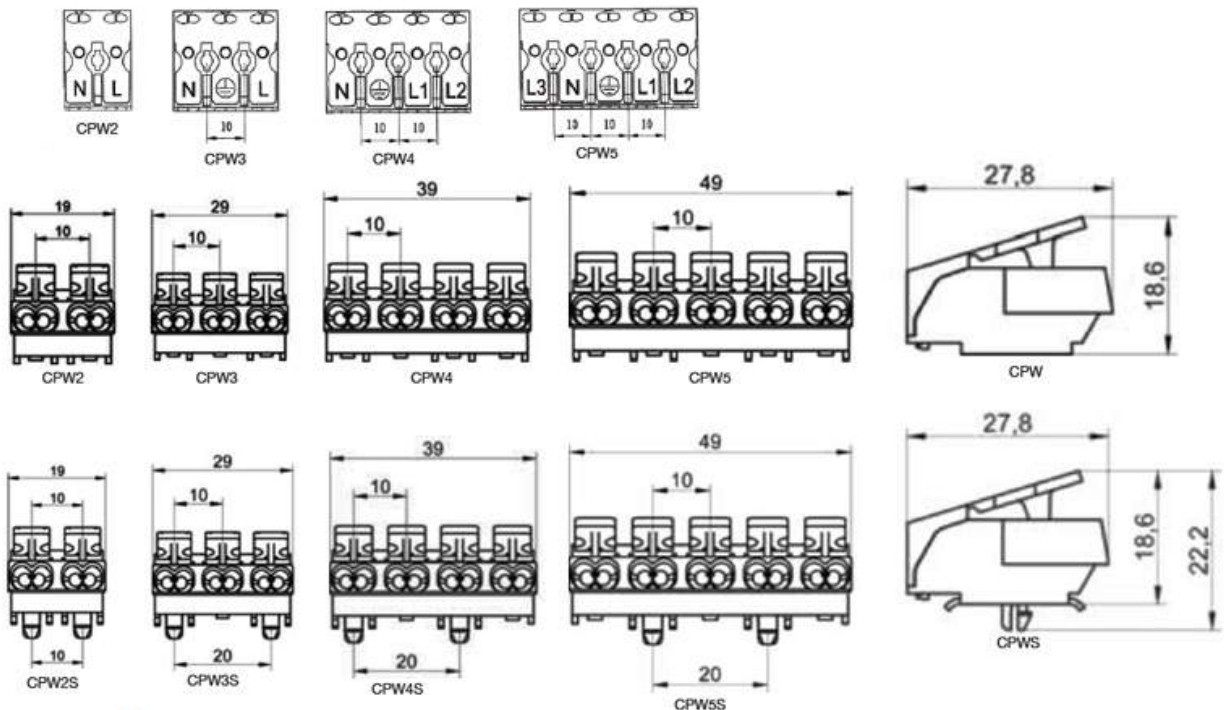
Rating (max)	450V AC 24A	
Working temperature	-30°C to 110°C	
Moulding	UL94-V0 self extinguishing PA66	
Insert strap	Steel	
Insert	Steel	
Marking	Standard	
	N	Neutral
	L	Live
Cable capacity	⊕	Earth
	Appliance side Max.	2x 2.5mm <sup>2</sup>
	Appliance side Min.	0.75mm <sup>2</sup>
	Capacitor Max.	0.75mm <sup>2</sup>
	Capacitor Min.	0.5mm <sup>2</sup>
Wire Trimmings lengths	Installation side Max.	2x 2.5mm <sup>2</sup>
	Installation side Min.	1mm <sup>2</sup>
	0.5mm <sup>2</sup> to 1mm <sup>2</sup>	8mm - 9mm
	1.5mm <sup>2</sup> to 2mm <sup>2</sup>	9mm - 10mm
Capacitor	9mm - 11mm	

### Without fixing pins

POLES	WITHOUT EARTHING	EARTH A	EARTH B	EARTH C
2	CPW2			
3(2 + Earth)	CPW3	CPW3A	CPW3B	CPW3C
4(3 + Earth)	CPW4	CPW4A	CPW4B	CPW4C
5(4 + Earth)	CPW5	CPW5A	CPW5B	CPW5C

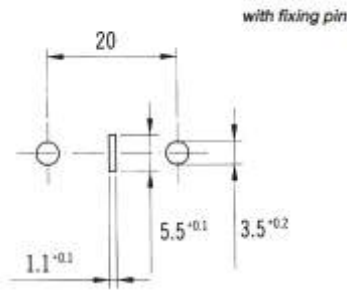
### With fixing pins

POLES	WITHOUT EARTHING	EARTH A	EARTH B	EARTH C
3(2 + Earth)	CPW3S	CPW3SA	CPW3SB	CPW3SC
4(3 + Earth)	CPW4S	CPW4SA	CPW4SB	CPW4SC
5(4 + Earth)	CPW5S	CPW5SA	CPW5SB	CPW5SC

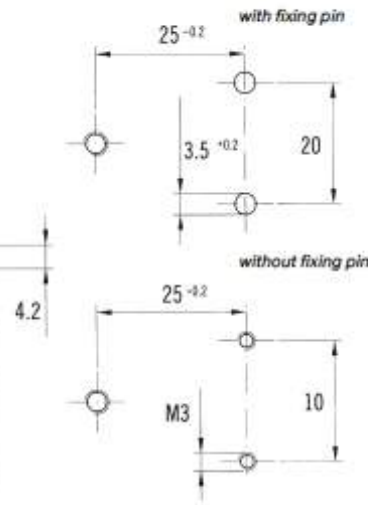
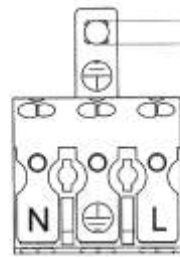


# INTERCONNECTION

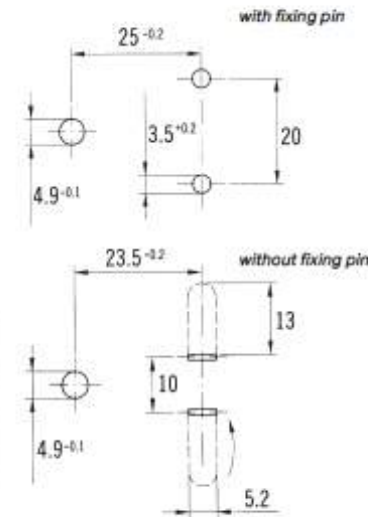
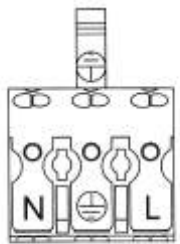
Earth A



Earth B



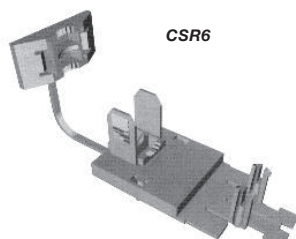
Earth C



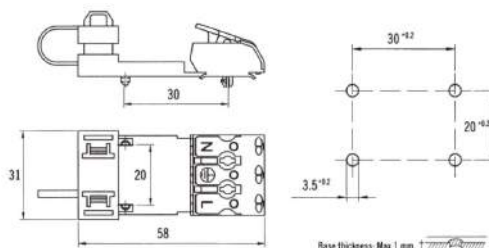
## Strain Relief

- To clamp installation cables
- Easy fitting

**TYPE NO. FAST CONNECTOR**  
 CSR6 CPW



CSR6



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# INTERCONNECTION

## Barrier Strips

### 6.35mm (.250") Pitch Tri Barrier PCB Barrier Strip

- 2 to 30 poles
- Moulded in Black UL94-V0 Flame retardant PBT
- Rising saddle washer terminals
- Other Terminal styles available on request
-  us approved

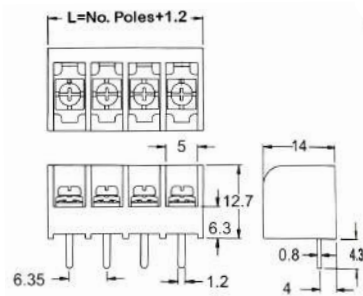
CBS40




TYPE NO.	POLES	LENGTH
CBS40ST8/2	2	13.9mm
CBS40ST8/3	3	20.3mm
CBS40ST8/4	4	26.6mm
CBS40ST8/5	5	33mm
CBS40ST8/6	6	39.3mm
CBS40ST8/7	7	45.7mm
CBS40ST8/8	8	52mm
CBS40ST8/9	9	58.4mm
CBS40ST8/10	10	64.7mm
CBS40ST8/11	11	71.1mm
CBS40ST8/12	12	77.4mm

#### SPECIFICATION

Rating	10A/300V AC
Wire range	0.05 - 1.3mm <sup>2</sup> (16-30AWG)
Working temperature	- 40°C to 120°C
Moulding	Black UL94-V0 PTB
Screw torque	1Nm (10lb-in)
Screw	M3.0, steel Ni plated
Terminal	Brass, tin plated
Withstand voltage	2000V AC
Insulation Resistance	>5000MΩ @ 500VDC
Recommended PCB hole size	ø1.6mm - ø1.8mm



### 8.25mm (.325") Pitch Tri Barrier PCB Barrier Strip

- 2 to 30 poles
- Moulded in Black UL94-V0 Flame retardant PBT
- Rising saddle washer terminals
- Other Terminal styles available on request
-  us approved

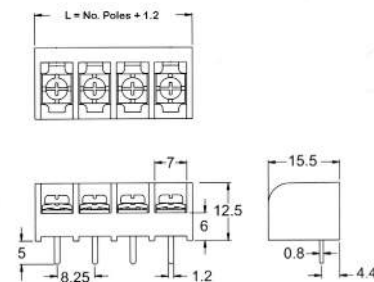
CBS42



TYPE NO.	POLES	LENGTH
CBS42ST8/2	2	17.7mm
CBS42ST8/3	3	26mm
CBS42ST8/4	4	34.2mm
CBS42ST8/5	5	42.5mm
CBS42ST8/6	6	50.7mm
CBS42ST8/7	7	59mm
CBS42ST8/8	8	67.2mm
CBS42ST8/9	9	75.5mm
CBS42ST8/10	10	83.7mm
CBS42ST8/11	11	92mm
CBS42ST8/12	12	100mm

#### SPECIFICATION


Rating	15A/300V AC
Wire range	0.3 - 2mm <sup>2</sup> (22-14AWG)
Working temperature	- 40°C to 120°C
Moulding	Black UL94-V0 PTB
Screw torque	1.35Nm (12lb-in)
Screw	M3.0, steel Ni plated
Terminal	Brass, tin plated
Withstand voltage	2000V AC
Insulation Resistance	>5000MΩ @ 500VDC
Recommended PCB hole size	ø1.6mm - ø1.8mm





# INTERCONNECTION

## 9.5mm (.374") Pitch Tri Barrier PCB Barrier Strip

- 2 to 30 poles
- Moulded in Black UL94-V0 Flame retardant PBT
- Rising saddle washer terminals
- Other Terminal styles available on request
-  us approved

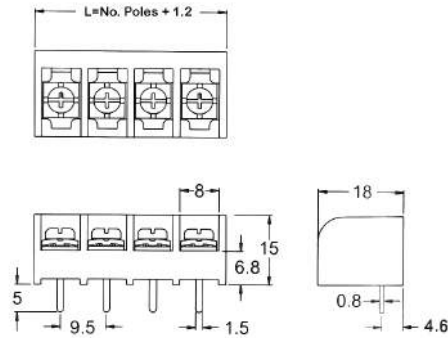
CBS44




TYPE NO.	POLES	LENGTH
CBS44ST8/2	2	20.4mm
CBS44ST8/3	3	29.4mm
CBS44ST8/4	4	39.4mm
CBS44ST8/5	5	48.9mm
CBS44ST8/6	6	58.4mm
CBS44ST8/7	7	67.9mm
CBS44ST8/8	8	77.4mm
CBS44ST8/9	9	86.9mm
CBS44ST8/10	10	96.4mm
CBS44ST8/11	11	106mm
CBS44ST8/12	12	115mm

### SPECIFICATION

Rating	15A/300V AC
Wire range	0.3 - 2mm <sup>2</sup> (14-22AWG)
Working temperature	- 40°C to 120°C
Moulding	Black UL94-V0 PBT
Screw torque	1.35Nm (12lb-in)
Screw	M3.5, steel Ni plated
Terminal	Brass, tin plated
Withstand voltage	2000V AC
Insulation Resistance	>5000MΩ @ 500VDC
Recommended PCB hole size	ø2mm - ø2.2mm



## 9.5mm (.374") Pitch Dual Barrier PCB Barrier Strip

- 2 to 30 poles
- Moulded in Black UL94-V0 Flame retardant PBT
- Rising saddle washer terminals
- Other Terminal styles available on request
-  us approved

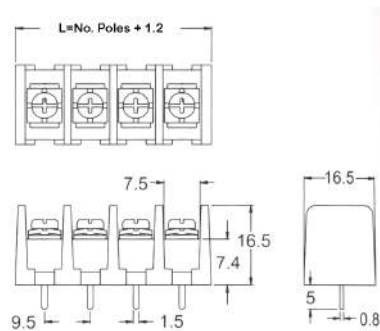
CBS34



TYPE NO.	POLES	LENGTH
CBS34ST8/2	2	21.5mm
CBS34ST8/3	3	31mm
CBS34ST8/4	4	40.5mm
CBS34ST8/5	5	50mm
CBS34ST8/6	6	59.5mm
CBS34ST8/7	7	69mm
CBS34ST8/8	8	78.5mm
CBS34ST8/9	9	88mm
CBS34ST8/10	10	97.5mm
CBS34ST8/11	11	107mm
CBS34ST8/12	12	117mm

### SPECIFICATION

Rating	20A/300V AC
Wire range	0.3 - 3.3mm <sup>2</sup> (14-22AWG)
Working temperature	- 40°C to 120°C
Moulding	Black UL94-V0 PBT
Screw torque	1.35Nm (12lb-in)
Screw	M3.5, steel Ni plated
Terminal	Brass, tin plated
Withstand voltage	2000V AC
Insulation Resistance	>5000MΩ @ 500VDC
Recommended PCB hole size	ø2mm - ø2.2mm



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# INTERCONNECTION

## 9.5mm (.374") Pitch Dual Barrier Chassis Mount Barrier Strip

- 2 to 30 poles
- Moulded in Black UL94-V0 flame retardant polyimide
- Integral mounting holes
- Screw rising saddle washer available on request
-  us approved

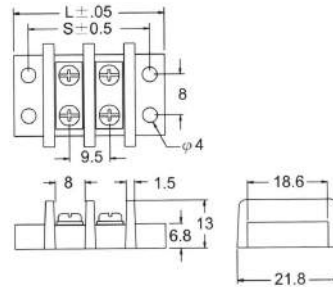
CBS64




### SPECIFICATION

Rating	20A/300V AC
Wire range	0.3 - 3.3mm <sup>2</sup> (12-22AWG)
Working temperature	- 40°C to 105°C
Moulding	Black UL94-V0 Polyimide
Screw torque	1.35Nm (12lb-in)
Screw	M3.5, steel Ni plated
Terminal	Brass, tin plated
Withstand voltage	2000V AC
Insulation Resistance	>5000MΩ @ 500VDC

TYPE NO.	POLES	MOUNTING PITCH	LENGTH
CBS64ST8/2	2	28.7mm	36.2mm
CBS64ST8/3	3	38.2mm	45.7mm
CBS64ST8/4	4	47.7mm	55.2mm
CBS64ST8/5	5	57.2mm	64.7mm
CBS64ST8/6	6	66.7mm	74.2mm
CBS64ST8/7	7	76.2mm	83.7mm
CBS64ST8/8	8	85.7mm	93.2mm
CBS64ST8/9	9	95.2mm	103mm
CBS64ST8/10	10	105mm	112mm
CBS64ST8/11	11	114mm	122mm
CBS64ST8/12	12	124mm	131mm



## 11mm (.433") Pitch Dual Barrier Chassis Mount Barrier Strip

- 2 to 30 poles
- Moulded in Black UL94-V0 flame retardant polyimide
- Integral mounting holes
- Screw rising saddle washer available on request
-  us approved

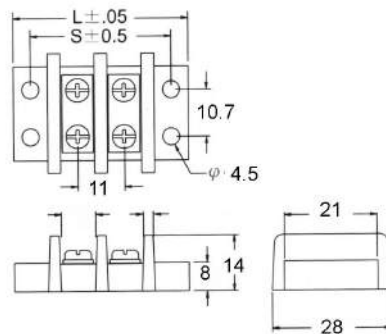
CBS66



### SPECIFICATION

Rating	25A/300V AC
Wire range	0.3 - 2mm <sup>2</sup> (14-22AWG)
Working temperature	- 40°C to 105°C
Moulding	Black UL94-V0 Polyimide
Screw torque	1.35Nm (12lb-in)
Screw	6-32, steel Ni plated
Terminal	Brass, tin plated
Withstand voltage	2000V AC
Insulation Resistance	>5000MΩ @ 500VDC

TYPE NO.	POLES	MOUNTING PITCH	LENGTH
CBS66ST8/2	2	32.4mm	41.2mm
CBS66ST8/3	3	43.5mm	52.3mm
CBS66ST8/4	4	54.6mm	63.4mm
CBS66ST8/5	5	65.7mm	74.5mm
CBS66ST8/6	6	76.8mm	85.6mm
CBS66ST8/7	7	87.9mm	96.7mm
CBS66ST8/8	8	99mm	108mm
CBS66ST8/9	9	110mm	119mm
CBS66ST8/10	10	121mm	130mm
CBS66ST8/11	11	132mm	141mm
CBS66ST8/12	12	143mm	152mm



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## TURN ON THE POWER

For sealed rechargeable 6V and 12V AGM and Gel batteries, with specialist batteries for electric vehicle and solar applications, along with Lantern batteries and chargers, battery balancers and connectors see page 168-183



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# INTERCONNECTION

## 2.5mm Pitch PCB Mounting Crimp Connectors

- Ideal for installed PCB's in boiler controls, HVAC
- Polarised to avoid mis-mating
- Vertical headers
- 2 to 20 poles
- Staggered pin header available (CTM601)
- Two sizes of crimp contact

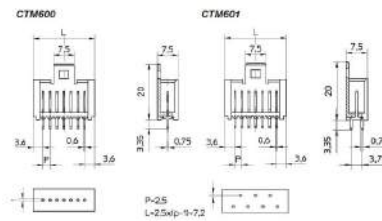
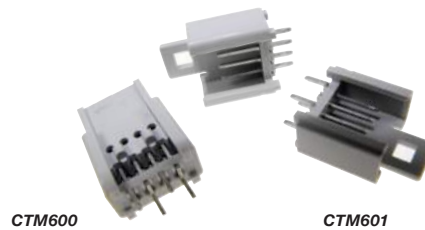
### SPECIFICATION

Rating (Male connectors)	125V/6A	
Working temperature	110°C	
Moulding	Grey UL94-V0 flame retardant PA	
Contact	Male	Tinned, nickel plated brass
	Female	Tinned brass
Wire strip length	4mm	

### PCB Mounting Male

TYPE NO.	POLES	LENGTH
CTM600/2	2	12.2mm
CTM600/3	3	14.7mm
CTM600/4	4	17.2mm
CTM600/5	5	19.7mm
CTM600/6	6	22.2mm
CTM600/7	7	29.7mm
CTM600/8	8	24.7mm
CTM600/9	9	29.7mm
CTM600/10	10	32.2mm
CTM600/11	11	34.4mm
CTM600/12	12	37.2mm
CTM600/13	13	39.7mm
CTM600/14	14	42.2mm
CTM600/15	15	44.7mm
CTM600/16	16	47.2mm
CTM600/17	17	49.7mm
CTM600/18	18	52.2mm
CTM600/19	19	54.7mm
CTM600/20	20	57.2mm

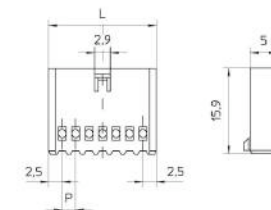
TYPE NO.	POLES	LENGTH
CTM601/2	2	12.2mm
CTM601/3	3	14.7mm
CTM601/4	4	17.2mm
CTM601/5	5	19.7mm
CTM601/6	6	22.2mm
CTM601/7	7	29.7mm
CTM601/8	8	24.7mm
CTM601/9	9	29.7mm
CTM601/10	10	32.2mm
CTM601/11	11	34.4mm
CTM601/12	12	37.2mm
CTM601/13	13	39.7mm
CTM601/14	14	42.2mm
CTM601/15	15	44.7mm
CTM601/16	16	47.2mm
CTM601/17	17	49.7mm
CTM601/18	18	52.2mm
CTM601/19	19	54.7mm
CTM601/20	20	57.2mm



### Female Housing

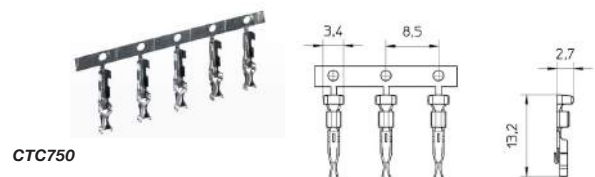
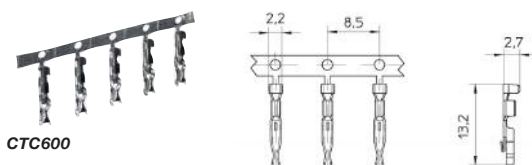
TYPE NO.	POLES	LENGTH
CTH600/2	2	7.5mm
CTH600/3	3	10mm
CTH600/4	4	12.5mm
CTH600/5	5	15mm
CTH600/6	6	17.5mm
CTH600/7	7	20mm
CTH600/8	8	22.5mm
CTH600/9	9	22.5mm
CTH600/10	10	25mm
CTH600/11	11	27mm

TYPE NO.	POLES	LENGTH
CTH600/12	12	30mm
CTH600/13	13	37.5mm
CTH600/14	14	40mm
CTH600/15	15	42mm
CTH600/16	16	54mm
CTH600/17	17	42.5mm
CTH600/18	18	45mm
CTH600/19	19	47.5mm
CTH600/20	20	50mm



### Crimps

TYPE NO.	RATING	WIRE SIZE
CTC600	6A	0.2 – 0.35mm <sup>2</sup> 24 – 22AWG
CTC750	7.5A	0.2 – 0.5mm <sup>2</sup> 24 – 20AWG



# INTERCONNECTION

## 5.08mm Pitch PCB Mounting Crimp Connectors

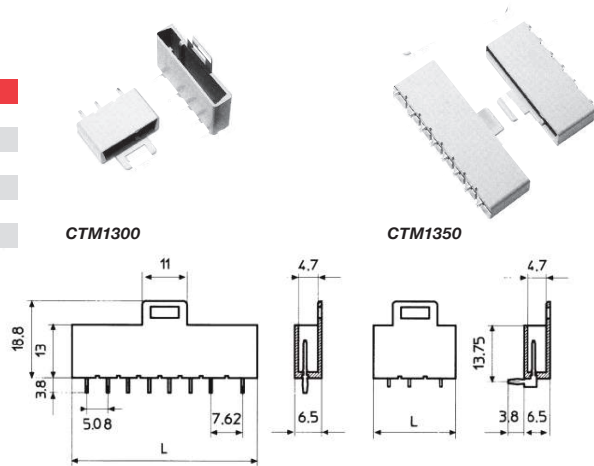
- Ideal for installed PCB's in boiler controls, HVAC
- Polarised to avoid mis-mating
- Horizontal and vertical headers
- 2 to 8 poles

### SPECIFICATION

Rating (Male connectors)	320V/4A	
Working temperature	85°C	
Contact resistance	≤10mOhms	
Moulding	Grey UL94-V0 PA	
Contact	Male	Tinned, nickel plated brass
	Female	Tinned brass
Cable	Female	0.5mm to 1mm

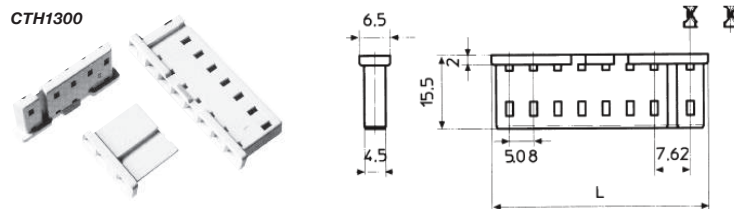
### PCB Mounting Male

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTM1300/2	2	15.1mm	CTM1350/2	2	15.1mm
CTM1300/3	3	20.2mm	CTM1350/3	3	20.2mm
CTM1300/4	4	25.3mm	CTM1350/4	4	25.3mm
CTM1300/5	5	30.4mm	CTM1350/5	5	30.4mm
CTM1300/6	6	35.5mm	CTM1350/6	6	35.5mm
CTM1300/7	7	40.5mm	CTM1350/7	7	40.5mm
CTM1300/8	8	45.6mm	CTM1350/8	8	45.6mm



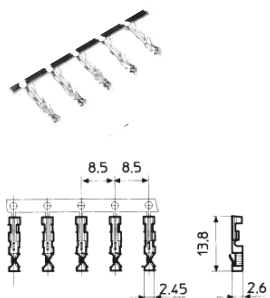
### Female Housing

TYPE NO.	POLES	LENGTH
CTH1300/2	2	15.1mm
CTH1300/3	3	20.2mm
CTH1300/4	4	25.3mm
CTH1300/5	5	30.4mm
CTH1300/6	6	35.5mm
CTH1300/7	7	40.5mm
CTH1300/8	8	45.6mm



### Crimps

TYPE NO.	RATING	WIRE SIZE
CTC1300	4A	0.05 - 1.3mm <sup>2</sup> 30 - 16AWG



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# INTERCONNECTION

## IC Sockets & Adaptors

- Precision turned pins
- Twist free construction
- Side and end stackable
- Anti wicking pin design
- Moulded in UL94-V0 polyester
- High solderability pin design
- 200 operations minimum life

### SPECIFICATION

Rating	3A
Contact resistance	<4mΩ
Insulation resistance	10 <sup>3</sup> MΩ at 100V
Temperature range	-55°C to 125°C
Housing	UL94-V0 glass filled polyester
Contact	Beryllium copper, heat treated
Plating	2µm/80µ" nickel
	5µm/200µ" tin
Insertion force	<250g
Withdrawal force	>50g

## IC Sockets Dual-In-Line

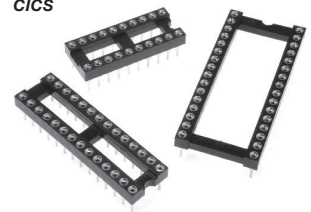
- 6-64 pins
- Low profile
- High retention design prevents IC walkout during heavy vibrations

TYPE NO.	POLES	ROW SPACING
CICS/3/6	6	0.3"
CICS/3/8	8	0.3"
CICS/3/14	14	0.3"
CICS/3/16	16	0.3"
CICS/3/18	18	0.3"
CICS/3/20	20	0.3"
CICS/3/24	24	0.3"
CICS/3/28	28	0.3"
CICS/6/24	24	0.6"

TYPE NO.	POLES	ROW SPACING
CICS/6/24W	24	0.6"
CICS/6/28	28	0.6"
CICS/6/28W	28	0.6"
CICS/6/32	32	0.6"
CICS/6/32W	32	0.6"
CICS/6/40	40	0.6"
CICS/6/40W	40	0.6"
CICS/9/64	64	0.9"

W = without central bar

CICS

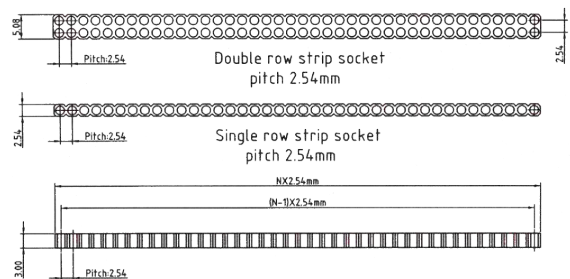


## IC Pin Strips

- Single & double rows
- Available cut to required size

TYPE NO.	POLES
CSICS/40	40
CDICS/80	80

CSICS



## Adaptor Sockets Dual-In-Line

- Male header contacts for connecting to IC sockets
- Ideal for sandwich PCB construction

TYPE NO.	PIN HEIGHT	ROW PITCH	NO PINS
CICA100/3/14	10mm	0.3"	14
CICA100/3/16	10mm	0.3"	16
CICA100/3/18	10mm	0.3"	18
CICA100/3/20	10mm	0.3"	20
CICA100/6/24	10mm	0.6"	24
CICA100/6/28	10mm	0.6"	28
CICA100/6/32	10mm	0.6"	32
CICA100/6/40	10mm	0.6"	40

TYPE NO.	PIN HEIGHT	ROW PITCH	NO PINS
CICA137/3/14	13.7mm	0.3"	14
CICA137/3/16	13.7mm	0.3"	16
CICA137/3/18	13.7mm	0.3"	18
CICA137/3/20	13.7mm	0.3"	20
CICA137/6/24	13.7mm	0.6"	24
CICA137/6/28	13.7mm	0.6"	28
CICA137/6/32	13.7mm	0.6"	32
CICA137/6/40	13.7mm	0.6"	40

CICA

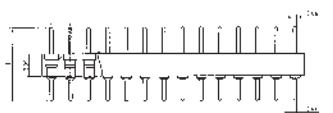
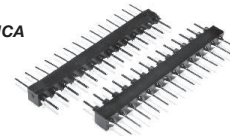


## Adaptor Strips

- Single & double rows
- Male header contacts for connecting to IC sockets
- Ideal for sandwich PCB construction

TYPE NO.	PIN HEIGHT	NO. PINS
CSICA100/40	10mm	40
CSICA100/80	10mm	80
CSICA137/40	13.7mm	40
CSICA137/80	13.7mm	80

CSICA

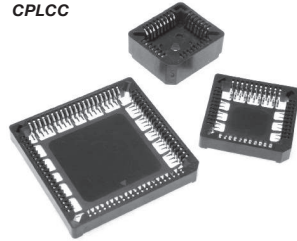


# INTERCONNECTION

## PLCC Sockets

- Sizes 20, 28, 32, 44, 52, 68 & 84
- JEDEC type A square chips
- Low profile
- Visual polarisation for easy assembly
- Stand-offs for cleaning and good heat dissipation
- Solder tails on 0.1" square grid
- SMT on 0.05" grid

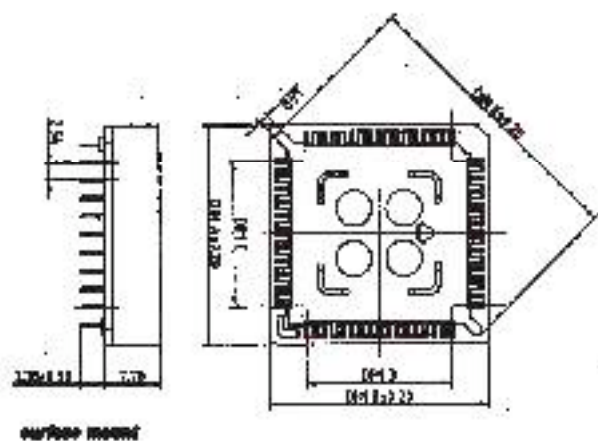
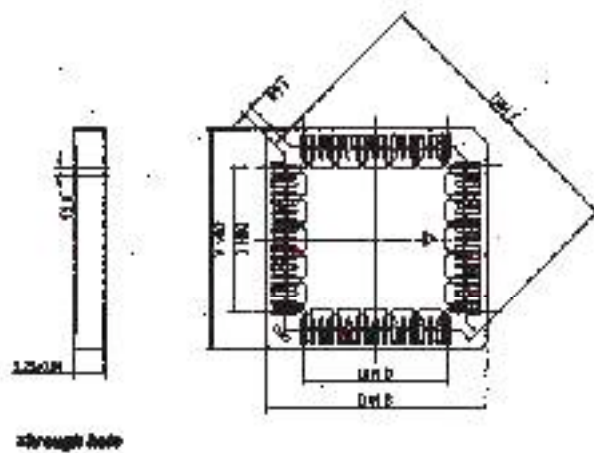
CPLCC



### SPECIFICATION

Contact resistance	≤30mΩ
Dielectric strength	500V AC/60sec
Insulation resistance	≥1000MΩ min at 500DCV
Temperature range	-55°C to 110°C
Housing	UL94-V0 glass filled thermoplastic
Contact	Phosphor bronze
Plating	2µm/80µ" nickel 3µm/120µ" tin

TYPE NO.	POLES	DIM A	DIM B	DIM C	DIM D	DIM E	MOUNTING
CPLCC/20	20	15.58	15.58	5.08	5.08	18.51	Through hole
CPLCC/28	28	18.12	18.12	7.62	7.62	22.20	Through hole
CPLCC/32	32	18.12	20.66	7.62	10.16	23.89	Through hole
CPLCC/44	44	23.20	23.20	12.70	12.70	29.28	Through hole
CPLCC/52	52	25.74	25.74	15.24	15.24	32.88	Through hole
CPLCC/68	68	30.82	30.82	20.32	20.32	40.06	Through hole
CPLCC/84	84	35.90	35.90	25.40	25.40	47.25	Through hole
CPLCC/20/0	20	15.58	15.58	5.08	5.08	17.11	SMT
CPLCC/28/0	28	18.12	18.12	7.62	7.62	20.70	SMT
CPLCC/32/0	32	18.12	20.66	7.62	10.16	22.49	SMT
CPLCC/44/0	44	23.20	23.20	12.70	12.70	27.88	SMT
CPLCC/52/0	52	25.74	25.74	15.24	15.24	31.48	SMT
CPLCC/68/0	68	30.82	30.82	20.32	20.32	38.66	SMT
CPLCC/84/0	84	35.90	35.90	25.40	25.40	45.85	SMT



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# INTERCONNECTION

## Minipower, 4.20mm Pitch Power Connectors

- Wire to Board and Wire to Wire connection system using male and female housing, crimp terminals and male PCB headers
- Polarisation of housing prevents accidental reversed connection
- Friction lock for positive mating, locking ears for panel mounting
- Female receptacle housings require crimp terminals to mate with CTM/MINI headers for Wire to Board connections
- Male plug housings and female receptacle housings both require crimp terminals for Wire to Wire connections

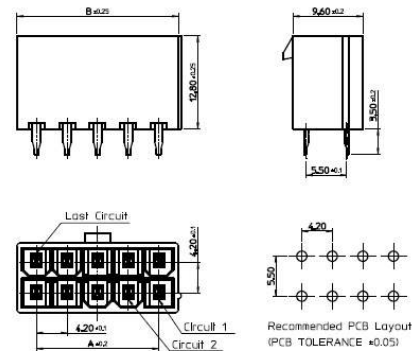
### SPECIFICATION

Rating	9A/600V
Materials:	
• Housings/headers	PA66
• Contacts/pins	Brass, tin-plated
Dielectric withstand	1500VAC
Contact Resistance	10mΩ min
Operating temperature	-25°C to 85°C

## Double Row Headers, Straight

TYPE NO.	POLES	A	B
CTMV/MINI/2	2 x 1	-	5.40
CTMV/MINI/4	2 x 2	4.20	9.60
CTMV/MINI/6	2 x 3	8.40	13.80
CTMV/MINI/8	2 x 4	12.6	18.00
CTMV/MINI/10	2 x 5	16.8	22.20
CTMV/MINI/12	2 x 6	21.0	26.40
CTMV/MINI/14	2 x 7	25.20	30.60
CTMV/MINI/16	2 x 8	29.40	34.80
CTMV/MINI/18	2 x 9	33.60	39.00
CTMV/MINI/20	2 x 10	37.80	43.20
CTMV/MINI/22	2 x 11	42.00	47.40
CTMV/MINI/24	2 x 12	46.20	51.60

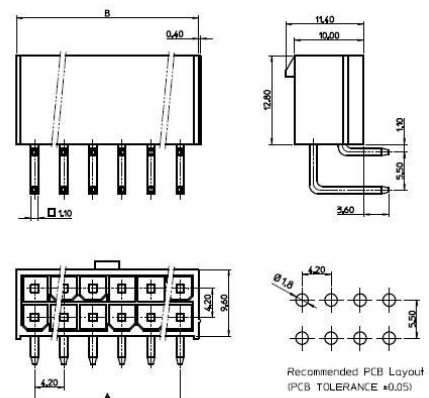
CTMV/MINI



## Double Row Headers, Right Angle

TYPE NO.	POLES	A	B
CTMH/MINI/2/P	2 x 1	-	5.40
CTMH/MINI/4/P	2 x 2	4.20	9.60
CTMH/MINI/6/P	2 x 3	8.40	13.80
CTMH/MINI/8/P	2 x 4	12.6	18.00
CTMH/MINI/10/P	2 x 5	16.8	22.20
CTMH/MINI/12/P	2 x 6	21.0	26.40
CTMH/MINI/14/P	2 x 7	25.20	30.60
CTMH/MINI/16/P	2 x 8	29.40	34.80
CTMH/MINI/18/P	2 x 9	33.60	39.00
CTMH/MINI/20/P	2 x 10	37.80	43.20
CTMH/MINI/22/P	2 x 11	42.00	47.40
CTMH/MINI/24/P	2 x 12	46.20	51.60

CTMH/MINI/P



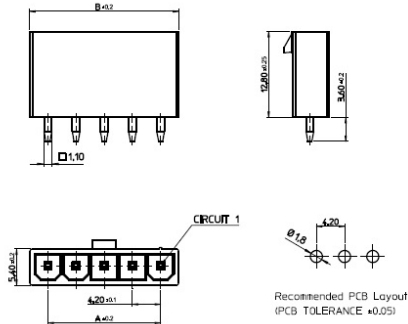
- flange option on request
- includes mounting post for increased stability

# INTERCONNECTION

## Single Row Headers, Straight

TYPE NO.	POLES	A	B
CTMV/MINI/2/S	2	4.20	9.60
CTMV/MINI/3/S	3	8.40	13.80
CTMV/MINI/4/S	4	12.6	18.00
CTMV/MINI/5/S	5	16.8	22.20

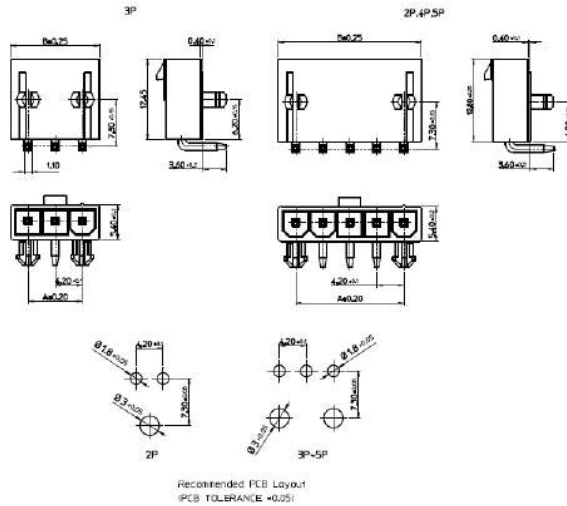
CTMV/MINI/S



## Right Angle

TYPE NO.	POLES	A	B
CTMH/MINI/2/S	2	4.20	9.60
CTMH/MINI/3/S	3	8.40	13.80
CTMH/MINI/4/S	4	12.6	18.00
CTMH/MINI/5/S	5	16.8	22.20

CTMH/MINI/S

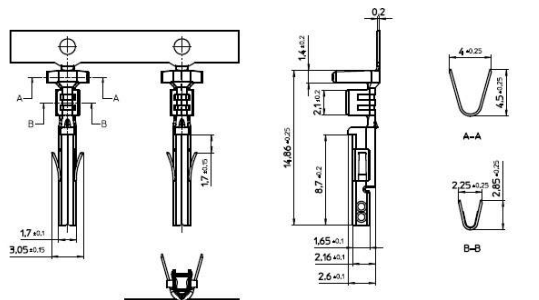


## Crimp Contacts

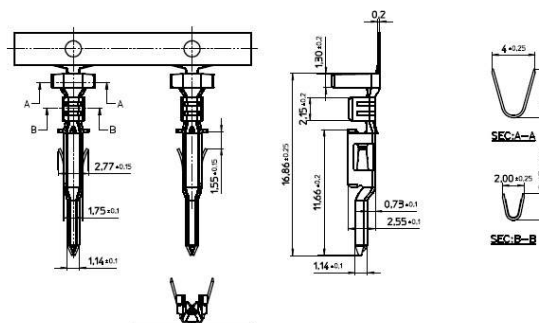
- Box section with locking fangs and four points of contact
- Supplied in reels of 10,000

TYPE NO.	GENDER	WIRE RANGE
CTCF/MINI	Female	24-18 AWG
CTCM/MINI	Male	24-18 AWG

CTCF/MINI



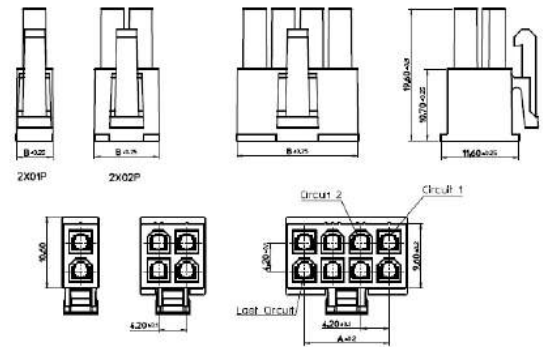
CTCM/MINI



# INTERCONNECTION

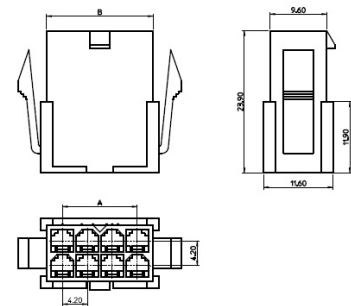
## Double Row Receptacle Housings

TYPE NO.	POLES	A	B	CTHF/MINI
CTHF/MINI/2	2 x 1	-	5.70	
CTHF/MINI/4	2 x 2	4.20	9.60	
CTHF/MINI/6	2 x 3	8.40	13.80	
CTHF/MINI/8	2 x 4	12.6	18.00	
CTHF/MINI/10	2 x 5	16.8	22.20	
CTHF/MINI/12	2 x 6	21.0	26.40	
CTHF/MINI/14	2 x 7	25.20	30.60	
CTHF/MINI/16	2 x 8	29.40	34.80	
CTHF/MINI/18	2 x 9	33.60	39.00	
CTHF/MINI/20	2 x 10	37.80	43.20	
CTHF/MINI/22	2 x 11	42.00	47.40	
CTHF/MINI/24	2 x 12	46.20	51.60	



## Double Row Plug Housings

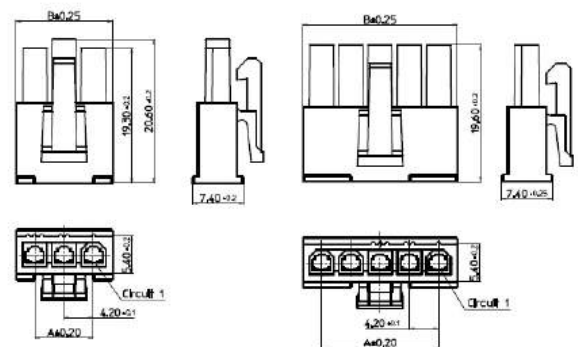
TYPE NO.	POLES	A	B	CTHM/MINI
CTHM/MINI/2	2 x 1	-	5.40	
CTHM/MINI/4	2 x 2	4.20	9.60	
CTHM/MINI/6	2 x 3	8.40	13.80	
CTHM/MINI/8	2 x 4	12.6	18.00	
CTHM/MINI/10	2 x 5	16.8	22.20	
CTHM/MINI/12	2 x 6	21.0	26.40	
CTHM/MINI/14	2 x 7	25.20	30.60	
CTHM/MINI/16	2 x 8	29.40	34.80	
CTHM/MINI/18	2 x 9	33.60	39.00	
CTHM/MINI/20	2 x 10	37.80	43.20	
CTHM/MINI/22	2 x 11	42.00	47.40	
CTHM/MINI/24	2 x 12	46.20	51.60	



## Single Row Plug Housings

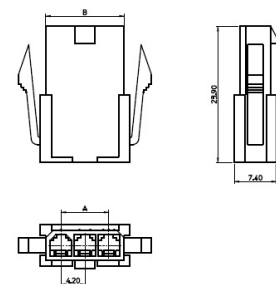
### Receptacles

TYPE NO.	POLES	A	B	CTHF/MINI/S
CTHF/MINI/2/S	2	4.20	9.60	
CTHF/MINI/3/S	3	8.40	13.80	
CTHF/MINI/4/S	4	12.6	18.00	
CTHF/MINI/5/S	5	16.8	22.20	



### Plugs

TYPE NO.	POLES	A	B	CTHM/MINI/S
CTHM/MINI/2/S	2	4.20	9.60	
CTHM/MINI/3/S	3	8.40	13.80	
CTHM/MINI/4/S	4	12.6	18.00	
CTHM/MINI/5/S	5	16.8	22.20	





# INTERCONNECTION

## Micropower, 3.00mm Pitch, Signal and Power Connectors

- Compact Wire to Board and Wire to Wire connection system offering features previously only available in larger connectors
- Polarisation of housing prevents accidental reversed connection
- Friction lock for positive mating, locking ears for panel mounting
- Female receptacle housings require crimp terminals to mate with CTM/MICRO headers for Wire to Board connections
- Male plug housings and female receptacle housings both require crimp terminals for Wire to Wire connections

### SPECIFICATION

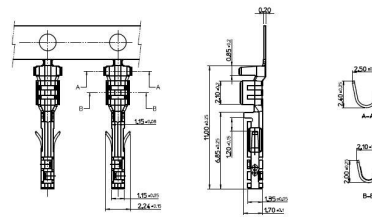
Rating	5A/250V
Materials:	
• Housings	PA66
• Contacts/pins	Phosphor bronze, tin-plated
• Through-hole headers	PBT
• SMT headers	LCP
Dielectric withstand	1500VAC
Contact Resistance	10mΩ min
Operating temperature	-25°C to 85°C

## Crimp Contacts

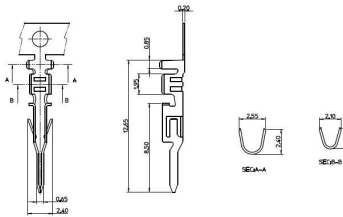
- Box section with locking fangs and four points of contact
- Supplied in reels of 10,000

TYPE NO.	GENDER	WIRE RANGE
CTCF/MICRO	Female	24-18 AWG
CTCM/MICRO	Male	24-18 AWG

CTCF/MICRO



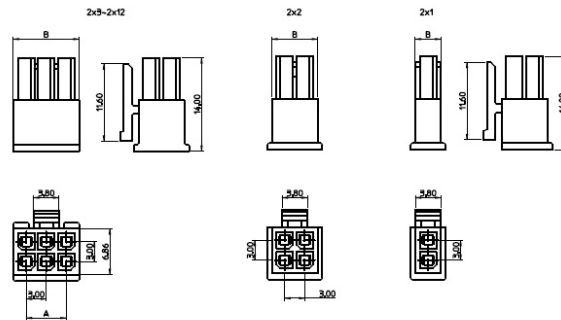
CTCM/MICRO



## Double Row Receptacle Housings

TYPE NO.	POLES	A	B
CTHF/MICRO/2	2 x 1	-	3.85
CTHF/MICRO/4	2 x 2	3.00	6.85
CTHF/MICRO/6	2 x 3	6.00	9.85
CTHF/MICRO/8	2 x 4	9.00	12.85
CTHF/MICRO/10	2 x 5	12.00	15.85
CTHF/MICRO/12	2 x 6	15.00	18.85
CTHF/MICRO/14	2 x 7	18.00	21.85
CTHF/MICRO/16	2 x 8	21.00	24.85
CTHF/MICRO/18	2 x 9	24.00	27.85
CTHF/MICRO/20	2 x 10	27.00	30.85
CTHF/MICRO/22	2 x 11	30.00	33.85
CTHF/MICRO/24	2 x 12	33.00	36.85

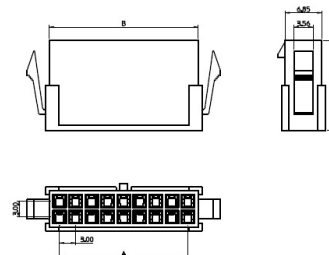
CTHF/MICRO



## Double Row Plug Housings

TYPE NO.	POLES	A	B
CTHM/MICRO/2	2 x 1	-	3.85
CTHM/MICRO/4	2 x 2	3.00	6.85
CTHM/MICRO/6	2 x 3	6.00	9.85
CTHM/MICRO/8	2 x 4	9.00	12.85
CTHM/MICRO/10	2 x 5	12.00	15.85
CTHM/MICRO/12	2 x 6	15.00	18.85
CTHM/MICRO/14	2 x 7	18.00	21.85
CTHM/MICRO/16	2 x 8	21.00	24.85
CTHM/MICRO/18	2 x 9	24.00	27.85
CTHM/MICRO/20	2 x 10	27.00	30.85
CTHM/MICRO/22	2 x 11	30.00	33.85
CTHM/MICRO/24	2 x 12	33.00	36.85

CTHM/MICRO



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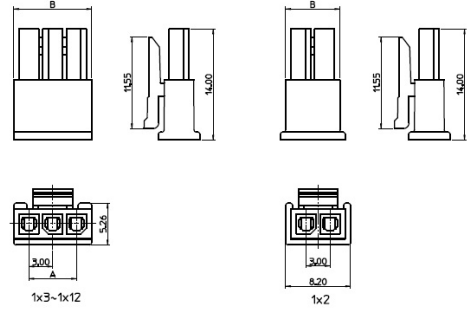
# INTERCONNECTION

## Single Row Receptacle and Plug Housings

### Receptacles

TYPE NO.	POLES	A	B
CTHF/MICRO/2/S	2	3.00	6.85
CTHF/MICRO/3/S	3	6.00	9.85
CTHF/MICRO/4/S	4	9.00	12.85
CTHF/MICRO/5/S	5	12.00	15.85
CTHF/MICRO/6/S	6	15.00	18.85

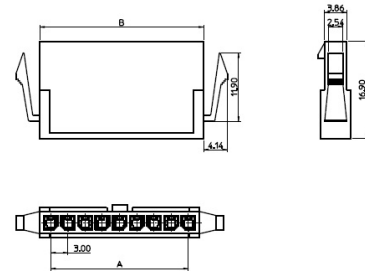
CTHF/MICRO/S



### Plugs

TYPE NO.	POLES	A	B
CTHM/MICRO/2/S	2	3.00	6.85
CTHM/MICRO/3/S	3	6.00	9.85
CTHM/MICRO/4/S	4	9.00	12.85
CTHM/MICRO/5/S	5	12.00	15.85
CTHM/MICRO/6/S	6	15.00	18.85

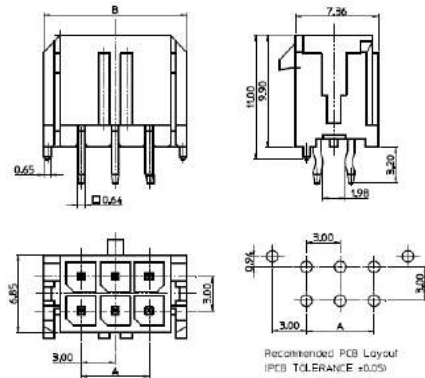
CTHM/MICRO/S



## Double Row Headers, Through-Hole, Straight

TYPE NO.	POLES	A	B
CTMV/MICRO/2	2 x 1	-	6.65
CTMV/MICRO/4	2 x 2	3.00	9.65
CTMV/MICRO/6	2 x 3	6.00	12.65
CTMV/MICRO/8	2 x 4	9.00	15.65
CTMV/MICRO/10	2 x 5	12.00	18.65
CTMV/MICRO/12	2 x 6	15.00	21.65
CTMV/MICRO/14	2 x 7	18.00	24.65
CTMV/MICRO/16	2 x 8	21.00	27.65
CTMV/MICRO/18	2 x 9	24.00	30.65
CTMV/MICRO/20	2 x 10	27.00	33.65
CTMV/MICRO/22	2 x 11	30.00	36.65
CTMV/MICRO/24	2 x 12	33.00	39.65

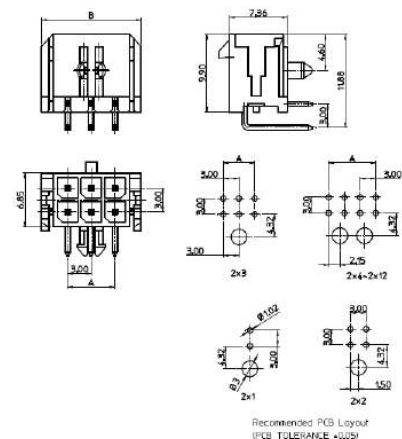
CTMV/MICRO



## Double Row Headers, Through-Hole, Right Angle

TYPE NO.	POLES	A	B
CTMH/MICRO/2	2 x 1	-	6.65
CTMH/MICRO/4	2 x 2	3.00	9.65
CTMH/MICRO/6	2 x 3	6.00	12.65
CTMH/MICRO/8	2 x 4	9.00	15.65
CTMH/MICRO/10	2 x 5	12.00	18.65
CTMH/MICRO/12	2 x 6	15.00	21.65
CTMH/MICRO/14	2 x 7	18.00	24.65
CTMH/MICRO/16	2 x 8	21.00	27.65
CTMH/MICRO/18	2 x 9	24.00	30.65
CTMH/MICRO/20	2 x 10	27.00	33.65
CTMH/MICRO/22	2 x 11	30.00	36.65
CTMH/MICRO/24	2 x 12	33.00	39.65

CTMH/MICRO



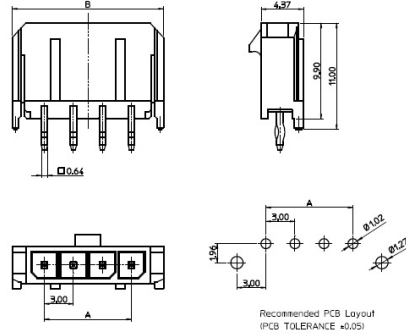
# INTERCONNECTION

## Single Row Headers, Through-Hole, Straight and Right Angle

### Straight

TYPE NO.	POLES	A	B
CTMV/MICRO/2/S	2	3.00	9.65
CTMV/MICRO/3/S	3	6.00	12.65
CTMV/MICRO/4/S	4	9.00	15.65
CTMV/MICRO/5/S	5	12.00	18.65
CTMV/MICRO/6/S	6	15.00	21.65
CTMV/MICRO/7/S	7	18.00	24.65
CTMV/MICRO/8/S	8	21.00	27.65
CTMV/MICRO/9/S	9	24.00	30.65
CTMV/MICRO/10/S	10	27.00	33.65
CTMV/MICRO/11/S	11	30.00	36.65
CTMV/MICRO/12/S	12	33.00	39.65

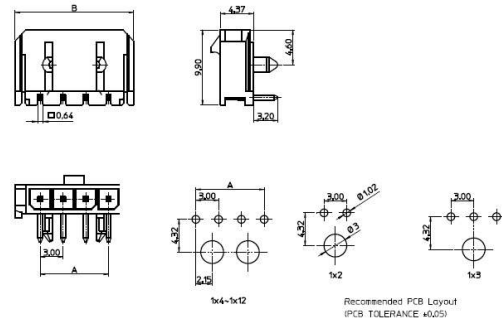
CTMV/MICRO/S



### Right Angle

TYPE NO.	POLES	A	B
CTMH/MICRO/2/S	2	3.00	9.65
CTMH/MICRO/3/S	3	6.00	12.65
CTMH/MICRO/4/S	4	9.00	15.65
CTMH/MICRO/5/S	5	12.00	18.65
CTMH/MICRO/6/S	6	15.00	21.65
CTMH/MICRO/7/S	7	18.00	24.65
CTMH/MICRO/8/S	8	21.00	27.65
CTMH/MICRO/9/S	9	24.00	30.65
CTMH/MICRO/10/S	10	27.00	33.65
CTMH/MICRO/11/S	11	30.00	36.65
CTMH/MICRO/12/S	12	33.00	39.65

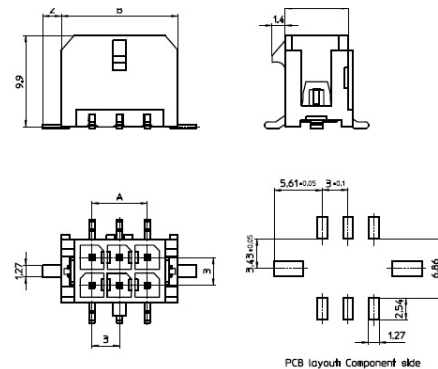
CTMH/MICRO/S



## Double Row Headers, SMT, Straight

TYPE NO.	POLES	A	B
CTMV/MICRO/2/SMT	2 x 1	-	6.65
CTMV/MICRO/4/SMT	2 x 2	3.00	9.65
CTMV/MICRO/6/SMT	2 x 3	6.00	12.65
CTMV/MICRO/8/SMT	2 x 4	9.00	15.65
CTMV/MICRO/10/SMT	2 x 5	12.00	18.65
CTMV/MICRO/12/SMT	2 x 6	15.00	21.65
CTMV/MICRO/14/SMT	2 x 7	18.00	24.65
CTMV/MICRO/16/SMT	2 x 8	21.00	27.65
CTMV/MICRO/18/SMT	2 x 9	24.00	30.65
CTMV/MICRO/20/SMT	2 x 10	27.00	33.65
CTMV/MICRO/22/SMT	2 x 11	30.00	36.65
CTMV/MICRO/24/SMT	2 x 12	33.00	39.65

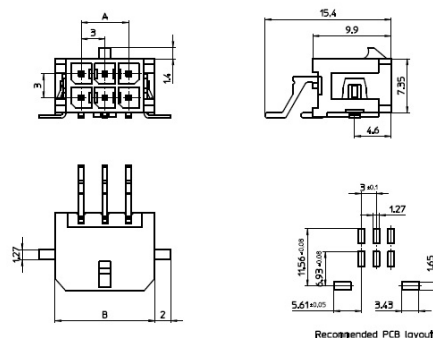
CTMV/MICRO/SMT



## Double Row Headers, SMT, Right Angle

TYPE NO.	POLES	A	B
CTMH/MICRO/2/SMT	2 x 1	-	6.65
CTMH/MICRO/4/SMT	2 x 2	3.00	9.65
CTMH/MICRO/6/SMT	2 x 3	6.00	12.65
CTMH/MICRO/8/SMT	2 x 4	9.00	15.65
CTMH/MICRO/10/SMT	2 x 5	12.00	18.65
CTMH/MICRO/12/SMT	2 x 6	15.00	21.65
CTMH/MICRO/14/SMT	2 x 7	18.00	24.65
CTMH/MICRO/16/SMT	2 x 8	21.00	27.65
CTMH/MICRO/18/SMT	2 x 9	24.00	30.65
CTMH/MICRO/20/SMT	2 x 10	27.00	33.65
CTMH/MICRO/22/SMT	2 x 11	30.00	36.65
CTMH/MICRO/24/SMT	2 x 12	33.00	39.65

CTMH/MICRO/SMT



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# FUSES & FUSEHOLDERS

## 5x20mm Fused Terminal Blocks

- 1 - 5 pole terminal strip with 5x20mm fuseholder to IEC257
- Integral spare fuse carrier
- Interlocking fuseholder with CFTBN/1
- Anti rotation spigot
- IP20 finger protection
- Cable entry 4mm<sup>2</sup> (2.5mm<sup>2</sup> with wire protector)
- Wire protector on fuse terminal as standard
- Standard 3 to 5 pole with earth screw, without wire protectors
- Version 2 to 5WP without earth, with wire protector on all poles
- Version 3 to 5EWP with earth, wire protector on all poles except earth
- Version 3 to 5NE without earth, without wire protectors
- Wire protectors on earth pole to order
- Meets creepage and clearance requirements of IEC (8mm)
- 16mm fixing pitch
- Easily cut to size
-  FIMKO, approved, on non earth versions

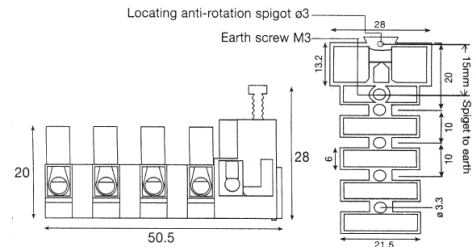
CFTBN



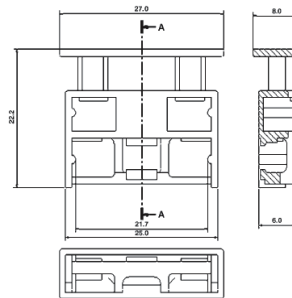
TYPE NO.	POLES
CFTBN/1	1 interlocking
CFTBN/2	2
CFTBN/3	3 with earth screw
CFTBN/4	4 with earth screw
CFTBN/5	5 with earth screw
CFTBN/3NE	3 no earth facility
CFTBN/4NE	4 no earth facility
CFTBN/5NE	5 no earth facility
CFTBN/2WP	2 with wire protector & no earth facility
CFTBN/3WP	3 with wire protector & no earth facility
CFTBN/4WP	4 with wire protector & no earth facility
CFTBN/5WP	5 with wire protector & no earth facility
CFTBN/3EWP	3 with wire protector & earth screw (no WP on earth connection)
CFTBN/4EWP	4 with wire protector & earth screw (no WP on earth connection) 5
CFTBN/5EWP	with wire protector & earth screw (no WP on earth connection)
CFTBN/3EWP	3 with wire protection on all poles & earth screw
CFTBN/4EWP	4 with wire protection on all poles & earth screw
CFTBN/5EWP	5 with wire protection on all poles & earth screw

### SPECIFICATION

Rating	Fuseholder 250V AC Terminal 450V AC
Current rating	Fuseholder 13A Terminal 20A
Moulding	UL94-V0 flame retardant PA
Terminal	Brass, nickel plated
Fuse clip	Phosphor bronze
Wire protector	Stainless steel
Temperature	-20° to 120°C
Fuse size	5x20mm glass or ceramic
Screws	M3



On CFTBN/1 spigot to mounting hole = 10mm



### Terminal Cover

- Screw / dust protection
- Easily cut to required size



TYPE NO.	POLES
CFTBN/3C	3 pole cover
CFTBN/5C	5 pole cover

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# FUSES & FUSEHOLDERS

## 6.3x25mm (1/4"x1") Fused Terminal Blocks

- 2 or 3 pole terminal block
- Accepts 5x20mm & 6.3x25mm (1"x1/4") fuses
- Anti rotation spigot
- IP20 finger protection
- Cable entry 3x1.5mm<sup>2</sup> or 2x2.5mm<sup>2</sup>
- Meets creepage and clearance requirements of IEC (8mm)
- 16mm fixing pitch
- 2 pole supplied in 3 pole housing
- 3 pole supplied complete with earth screw and washer
- C $\epsilon$  approved

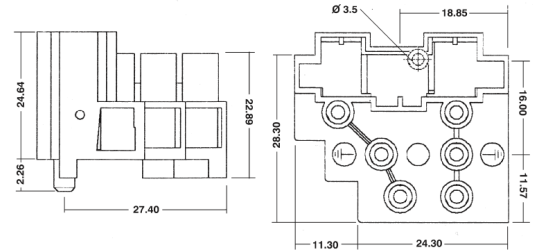
CMFTB



TYPE NO.	POLES
CMFTB/2	2
CMFTB/3	3

### SPECIFICATION

Rating	Fuseholder 250V AC Terminal 450V AC
Current rating	Fuseholder 13A Terminal 20A
Moulding	UL94-V0 flame retardant PA
Terminal	Brass, nickel plated
Fuse clip	Phosphor bronze
Temperature	-20° to 125°C
Fuse size	5 x 20mm & 6.3 x 25mm (1"x1/4") glass or ceramic
Screws	M3.6
Terminal marking	L=Live/ $\oplus$ =Earth/ N=Neutral



## PCB Fuseholder for Plug-in Fuses

- Precision turned pins
- Twist free construction
- Low profile
- High retention design prevents fuse walkout during heavy vibrations
- Side and end stackable
- High solderability pin design
- Anti wicking pin design
- UL94-V0 mouldings
- 200 operations minimum life

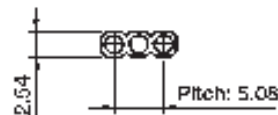
CSICS



TYPE NO.	POLES
CSICS/3/101	2

### SPECIFICATION

Rating	3A
Contacts/Resistance	Tinned nickel plated Brass, <5m $\Omega$
Temperature range	-55°C to 125°C
Contact	Beryllium copper, heat treated
Plating	2 $\mu$ m/80 $\mu$ " nickel 5 $\mu$ m/200 $\mu$ " tin
Insulation Resistance	10 <sup>9</sup> M $\Omega$ at 100V
Insertion force	<250g
Withdrawal force	>50g



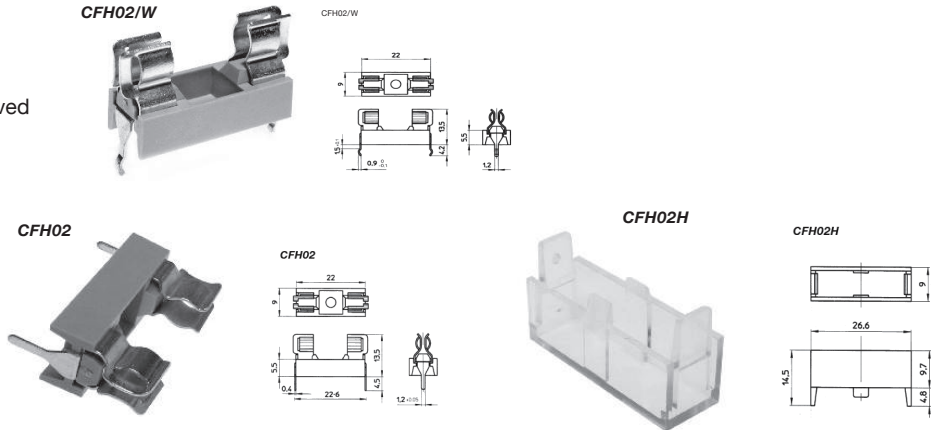


# FUSES & FUSEHOLDERS

## 5x20mm PCB Fuse Carriers

- PCB mounting
- Kinked pin for PCB retention CFH02/W
- Transparent insulation cover CFH02H
- UL94-V0 cover
- Standard according to IEC 127-6 & UL512
- 22.6mm pitch
- approved

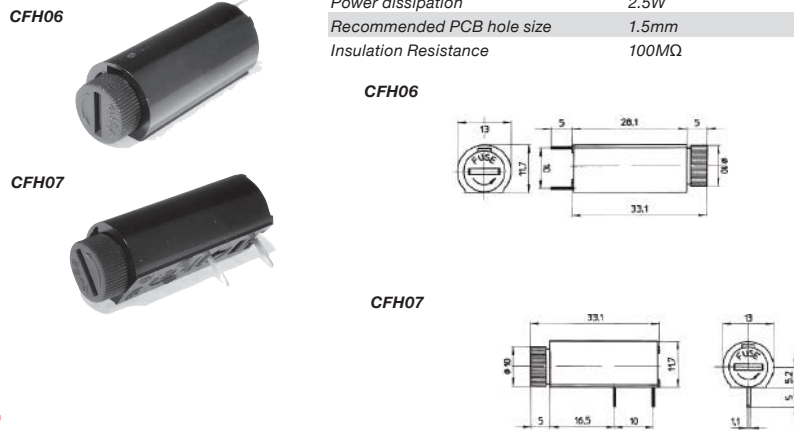
TYPE NO.		SPECIFICATION	
CFH02	Straight pin	Rating	6.3A/ 250V
CFH02/W	Kinked pin	Contacts/Resistance	Tinned, nickel plated Brass
CFH02H	Cover	Moulding	UL94-V1 self extinguishing PPOM
		Dielectric strength	3kV / 60 Sec
		Temperature	-20° to 125°C
		Operating power	1.6W
		Recommended PCB hole size	1.3mm



## 5x20mm Compact Horizontal & Vertical PCB Mounting Fuseholders

- Finger or screwdriver release, bayonet carrier
- Horizontal or vertical mounting
- Compact footprint 10mm pitch
- Anti solder wicking
- To IEC 127-6 & UL512
- approved

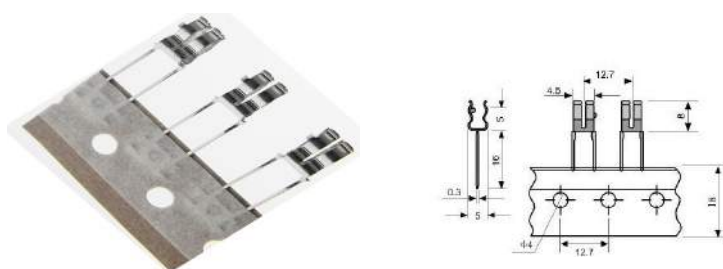
TYPE NO.		SPECIFICATION	
CFH06	vertical mounting	Rating	10A/ 250V
CFH07	horizontal mounting	Contacts/Resistance	Tinned nickel plated Brass, <math><5m\Omega</math>
		Moulding	UL94-V0 flame retardant PBT
		Dielectric strength	3kV / 60"
		Power dissipation	2.5W
		Recommended PCB hole size	1.5mm
		Insulation Resistance	100M $\Omega$



## 5x20mm PCB Fuse Carriers

- For the PCB mounting of 5x20mm fuses
- Supplied on tape, in ammo packs
- Pack size 1000 pcs

TYPE NO.		SPECIFICATION	
CFH01T	Fuse clip	Material	Phosphor bronze, tin plated



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# FUSES & FUSEHOLDERS

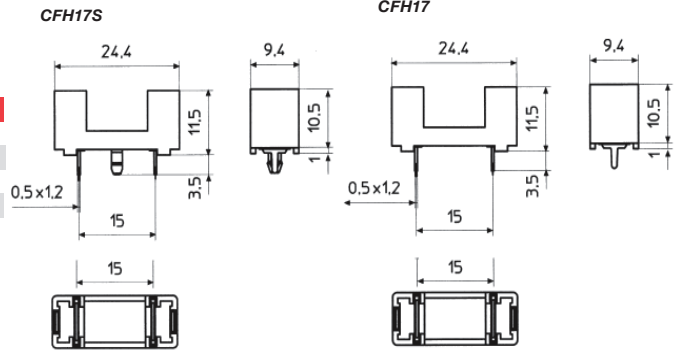
## 5x20mm Semi-enclosed PCB Mounting 15mm Pitch Fuseholders

- PCB mounting
- Fuse retaining insulation cover
- Enclosed contacts
- 15mm pitch
- Moulded in Green UL94-V0 retardant PA
- IEC 127-6
- approved



SPECIFICATION	
Rating	6.3A/ 250V
Contacts/Resistance	Tinned, nickel plated Brass, <math><5m\Omega</math>
Moulding	UL94-V0 flame retardant PA
Dielectric strength	3kV / 60"
Power dissipation	1.6W
Recommended PCB hole size	1.5mm
Insulation Resistance	100M $\Omega$

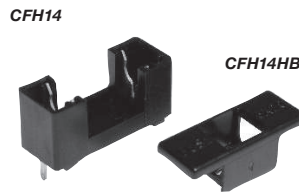
TYPE NO.	
CFH17S	with spigot
CFH17	no spigot
CFH14HB	Cover (Black)
CFH14HG	Cover (Green)



Recommended spigot hole 2.6mm

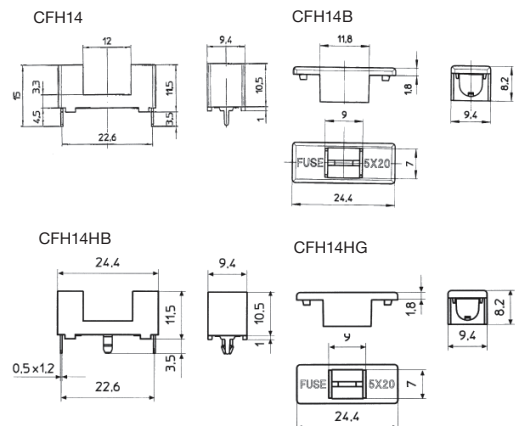
## 5x20mm Semi-enclosed PCB Mounting 22.6mm Pitch Fuseholders

- PCB mounting
- Fuse retaining insulation cover
- Enclosed contacts
- 22.6mm pitch
- Moulded in UL94-V0 retardant PA
- IEC 127-6
- approved



SPECIFICATION	
Rating	6.3A/ 250V
Contacts/Resistance	Tinned, nickel plated Brass, <math><5m\Omega</math>
Moulding	Black UL94-V0 flame retardant PA CFH14 Green UL94-V0 flame retardant PA CFH14S
Dielectric strength	3kV / 60"
Power dissipation	1.6W
Recommended PCB hole size	100M $\Omega$
Insulation Resistance	100M $\Omega$




TYPE NO.	
CFH14	no spigot
CFH14B	with spigot
CFH14HB	cover (Black)
CFH14HG	cover (Green)



Recommended spigot hole 2.6mm

# FUSES & FUSEHOLDERS

## 5x20mm Low Profile Panel Mounting Fuseholders

- Low profile panel mounting
- Moulded in UL94-V0 PBT
- Screw driver release
- Screw & bayonet carrier
- Solder, 2.8/4.0/4.8 quick connect terminals
- Anti-rotation D fixing
- IEC 127-6
- Industry standard
-    approved
- CFH18 UL, CSA approved

CFH04



CFH09



CFH12



CFH18

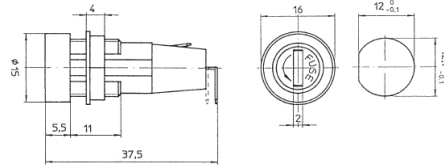


TYPE NO.	CARRIER	TERMINAL
CFH04	Screw	Solder / 2.8mm quick connect
CFH09	Bayonet	Solder / 2.8mm quick connect
CFH12	Bayonet	Solder / 4.8mm quick connect
CFH18	Bayonet	Solder / 4mm quick connect

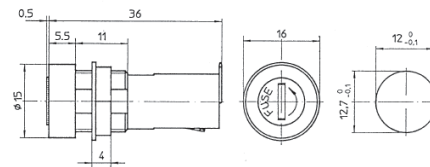
### SPECIFICATION

Rating	10A / 250V
Contacts/Resistance	Tinned nickel plated Brass, <math><5m\Omega</math>
Moulding	UL94-V0 flame retardant PBT
Dielectric strength	3kV / 60"
Power dissipation	CFH18 1.5kW
Insulation Resistance	2.5W
	>100M $\Omega$

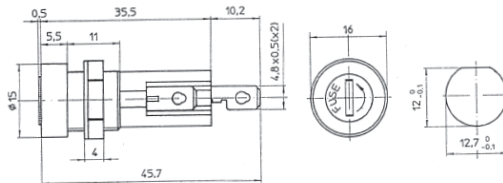
CFH04



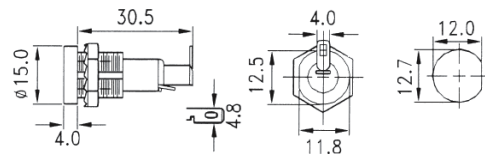
CFH09



CFH12



CFH18



PCB  
TERMINAL  
BLOCKS

INTER-  
CONNECTION

FUSES &  
FUSE-  
HOLDERS

LEDs &  
INDICATORS

MINIATURE  
SWITCHES

LIMIT &  
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SWITCHES

CONTROL  
PRODUCTS

INTERFACE  
MODULES &  
SUPPORTS

RELAY  
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FORMERS

# FUSES & FUSEHOLDERS

## 5x20mm Panel Mounting Fuseholders

- Finger/screwdriver release, screw carrier
- Anti-rotation key fixing
- Combined solder/2.8mm quick connect terminals
- Compact
- IEC 127-6
- CE approved

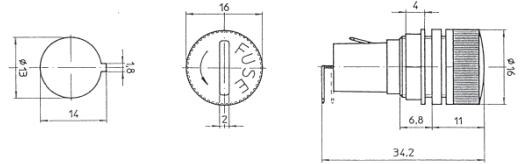
CFH05



**TYPE NO.**  
CFH05 Panel mount fuseholder

### SPECIFICATION

Rating	A/250V
Contacts	Tinned nickel plated Brass
Moulding	UL94-V0 flame retardant PC
Dielectric strength	>3kV
Insulation Resistance	>100MΩ
Power dissipation	2.5W



## 5x20mm Snap Fit Panel Mounting Fuseholders

- Snap fit panel mounting
- Screwdriver or finger release screw fuse carrier
- Combined solder/2.8mm quick connect terminals
- Anti-rotation D fixing
- IEC 127-6
- CFH08 cULus, , CE approved
- CFH11 cULus, approved

CFH08



CFH11

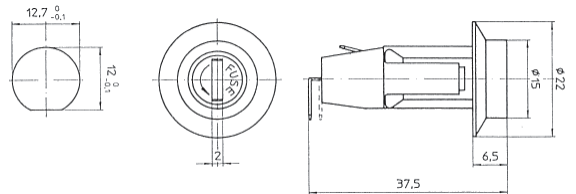


TYPE NO.	CARRIER	RELEASE
CFH08	Screw	Screw Driver
CFH11	Bayonet	Finger

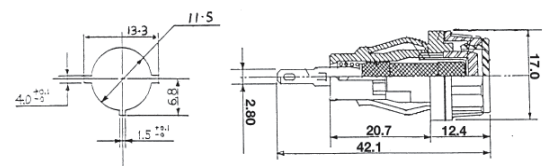
### SPECIFICATION

Rating	CFH08	6.3A/250V
	CFH11	10A/250V
Contacts	Tinned nickel plated Brass	
Moulding	CFH08	UL94-V0 flame retardant PBT
	CFH11	UL94-V0 flame retardant PC
Dielectric strength	CFH08	3kV
	CFH11	1.5kV
Insulation Resistance	>100MΩ	
Power dissipation	CFH08	2.5W

CFH08





CFH11



# FUSES & FUSEHOLDERS

## 6.3x32mm (1/4"x1 1/4") Low Profile Panel Mounting Fuseholder

- Low profile panel mounting
- Screw driver release bayonet cap
- Combined solder/4.8mm quick connect terminals
- Anti-rotation fixing
-  and  approved

CFH20

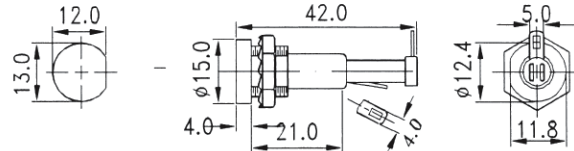


### SPECIFICATION


Rating	15A/250V
Contacts	Tinned nickel plated Brass
Moulding	UL94-V0 flame retardant PC
Dielectric strength	1.5kV
Insulation Resistance	>100MΩ

### TYPE NO.

CFH20 Low profile panel mounting fuseholder



## 6.3x32mm (1/4"x1 1/4") Snap Fit Low Profile Panel Mounting Fuseholder

- Low profile snap fit panel mounting
- Screw driver release bayonet cap
- Combined solder/4.8mm quick connect terminals
- Anti-rotation fixing
-  approved

CFH19

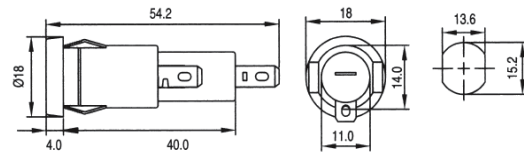


### SPECIFICATION

Rating	10A/250V
Contacts	Tinned nickel plated Brass
Moulding	UL94-V2 Nylon
Dielectric strength	1.5kV
Insulation Resistance	>100MΩ

### TYPE NO.

CFH19 Low profile snap fit fuseholder



PCB  
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FUSE-  
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LIMIT &  
SAFETY  
SWITCHES

CONTROL  
PRODUCTS

INTERFACE  
MODULES &  
SUPPORTS

RELAY  
BASES

ENCLOSURES

BATTERIES

TRANS-  
FORMERS

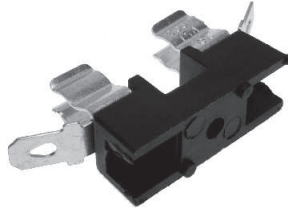


# FUSES & FUSEHOLDERS

## 5x20mm Chassis Mounting 15A Fuseholder

- Centre hole fixing
- Anti-rotation spigots
- 5 x 20mm fuse
- High current rating
-  approved

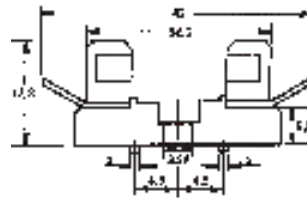
CFH15



TYPE NO.	FUSE SIZE
CFH15	chassis mounting 15A fuseholder

### SPECIFICATION

Rating	15A/250V
Contacts	High tensile phosphor Bronze, 500M $\Omega$
Moulding	Flame retardant PTB

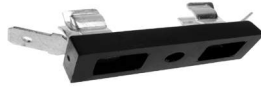


# FUSES & FUSEHOLDERS

## 6.3x32mm (1/4"x1 1/4") Chassis Mounting Fuseholder

- Centre hole fixing
- 6.3 x 32mm fuse
- High current rating
- **UL** approved

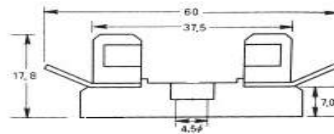
CFH16



### SPECIFICATION

Rating	30A/300V
Contacts/Resistance	Brass tin nickel plated, 500MΩ
Moulding	UL94-V0 Flame retardant, Phenolic thermosetting resin

TYPE NO.	FUSE SIZE
CFH16	chassis mounting 15A fuseholder



## Multi-size Inline Fuseholder

- Inline type fuseholder
- Accepts 5 x 20mm, 6.3 x 32mm (1 1/4" x 1/4") and 6.3 x 25mm (1/4" x 1") fuses
- Allows own choice of wire
- Bayonet type cover
- **CE** approved

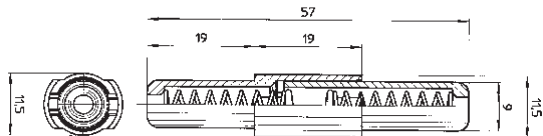
CFH10



TYPE NO.	FUSE SIZE
CFH10-	6.3 x 32mm
	6.3 x 25mm
	5 x 20mm

### SPECIFICATION

Rating	6.3A/250V
Contacts	Tinned nickel plated Brass
Moulding	UL94-HB PA6
Dielectric strength	1.5kV
Operating power	1.6W
Insulation Resistance	>100MΩ



PCB  
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SAFETY  
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SUPPORTS

RELAY  
BASES

ENCLOSURES

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# FUSES & FUSEHOLDERS

## 5x20mm Glass and Ceramic Fuses

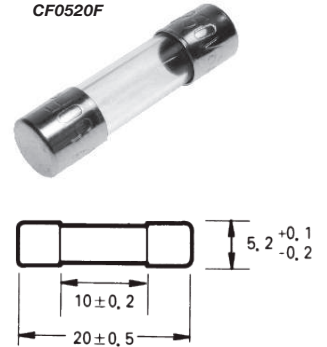
### 5x20mm Quick Blow Glass Fuses

TYPE NO.	RATING
CF0520F/100	100mA
CF0520F/125	125mA
CF0520F/160	160mA
CF0520F/200	200mA
CF0520F/250	250mA
CF0520F/315	315mA
CF0520F/400	400mA
CF0520F/500	500mA
CF0520F/630	630mA
CF0520F/800	800mA
CF0520F/1	1A
CF0520F/1.25	1.25A

TYPE NO.	RATING
CF0520F/1.6	1.6A
CF0520F/2	2A
CF0520F/2.5	2.5A
CF0520F/3	3A
CF0520F/3.15	3.15A
CF0520F/4	4A
CF0520F/5	5A
CF0520F/6.3	6.3A
CF0520F/8	8A
CF0520F/10	10A
CF0520F/12.5	12.5A
CF0520F/15	15A
CF0520F/16	16A
CF0520F/20	20A

- Quick blow (F) IEC60127-2/2
- Glass cartridge, nickel plated end caps
- Break capacity 35A/250V or 10 x In whichever is greater at above 3.5A
- Colour coded available
- approved (200mA to 6.3A)

CF0520F



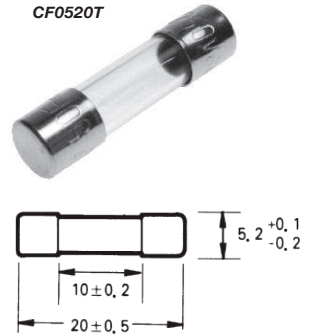
### 5x20mm Time Delay Glass Fuses

TYPE NO.	RATING
CF0520T/100	100mA
CF0520T/125	125mA
CF0520T/160	160mA
CF0520T/200	200mA
CF0520T/250	250mA
CF0520T/315	315mA
CF0520T/400	400mA
CF0520T/500	500mA
CF0520T/630	630mA
CF0520T/800	800mA

TYPE NO.	RATING
CF0520T/1	1A
CF0520T/1.25	1.25A
CF0520T/1.6	1.6A
CF0520T/2	2A
CF0520T/2.5	2.5A
CF0520T/3.15	3.15A
CF0520T/4	4A
CF0520T/5	5A
CF0520T/6.3	6.3A
CF0520T/8	8A
CF0520T/10	10A
CF0520T/12.5	12.5A

- Time delay (F) IEC60127-2/3
- Glass cartridge, nickel plated end caps
- Break capacity 35A/250V or 10 x In whichever is greater at above 3.5A
- Colour coded available
- Spiral element or plated solder section for superior characteristics
- and BSI approved (200mA to 6.3A)

CF0520T



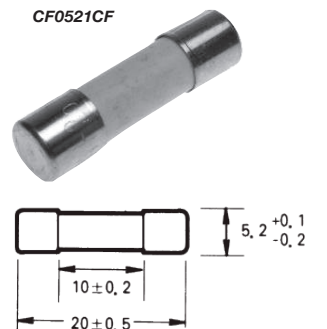
### 5x20mm Quick Blow Ceramic Fuses

TYPE NO.	RATING
CF0521CF/100	100mA
CF0521CF/125	125mA
CF0521CF/160	160mA
CF0521CF/200	200mA
CF0521CF/250	250mA
CF0521CF/315	315mA
CF0521CF/400	400mA
CF0521CF/500	500mA
CF0521CF/630	630mA
CF0521CF/800	800mA
CF0521CF/1	1A

TYPE NO.	RATING
CF0521CF/1.25	1.25A
CF0521CF/1.6	1.6A
CF0521CF/2	2A
CF0521CF/2.5	2.5A
CF0521CF/3.15	3.15A
CF0521CF/4	4A
CF0521CF/5	5A
CF0521CF/6.3	6.3A
CF0521CF/7.5	7.5A
CF0521CF/8	8A
CF0521CF/10	10A
CF0521CF/12.5	12.5A

- Quick blow (F) IEC60127-2/1
- Ceramic cartridge, nickel plated brass end caps
- High break capacity 1500A/250V
- Sand filled
- and BSI approved (250mA-10A)

CF0521CF



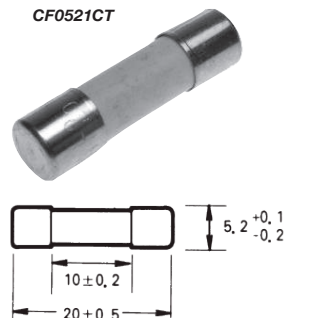
### 5x20mm Time Delay Ceramic Fuses

TYPE NO.	RATING
CF0521CT/125	125mA
CF0521CT/160	160mA
CF0521CT/200	200mA
CF0521CT/250	250mA
CF0521CT/315	315mA
CF0521CT/400	400mA
CF0521CT/500	500mA
CF0521CT/630	630mA
CF0521CT/800	800mA
CF0521CT/1	1A

TYPE NO.	RATING
CF0521CT/1.25	1.25A
CF0521CT/1.6	1.6A
CF0521CT/2	2A
CF0521CT/2.5	2.5A
CF0521CT/3.15	3.15A
CF0521CT/4	4A
CF0521CT/5	5A
CF0521CT/6.3	6.3A
CF0521CT/7.5	7.5A
CF0521CT/8	8A
CF0521CT/10	10A
CF0521CT/12.5	12.5A

- Time delay (T) IEC60127-2/5
- Ceramic cartridge, nickel plated brass end caps
- High break capacity 1500A/250V
- 200mA- 15A 1A-6.3A
- Sand filled

CF0521CT



# FUSES & FUSEHOLDERS

## 6.3x25mm (1/4"x1") Glass & British Plug Top Fuses

### 6.3x25mm Quick Blow Glass Fuses

TYPE NO.	RATING	TYPE NO.	RATING
CF06325FG/250	250mA	CF06325FG/3	3A
CF06325FG/500	500mA	CF06325FG/5	5A
CF06325FG/800	800mA	CF06325FG/7	7A
CF06325FG/1	1A	CF06325FG/10	10A
CF06325FG/2	2A	CF06325FG/13	13A

- Quick blow (F)
- Glass cartridge, nickel plated end caps
- Break capacity, 35A/250V (250mA to 1A), 100A/250V (1A to 3A), 200A/250V (3A to 13A)
- To IEC 127



### 6.3x25mm Time Delay Glass Fuses

TYPE NO.	RATING	TYPE NO.	RATING
CF06325TG/250	250mA	CF06325TG/3	3A
CF06325TG/500	500mA	CF06325TG/5	5A
CF06325TG/800	800mA	CF06325TG/7	7A
CF06325TG/1	1A	CF06325TG/10	10A
CF06325TG/2	2A	CF06325TG/13	13A

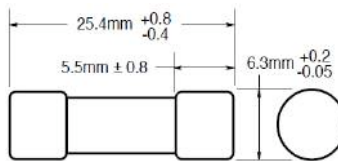
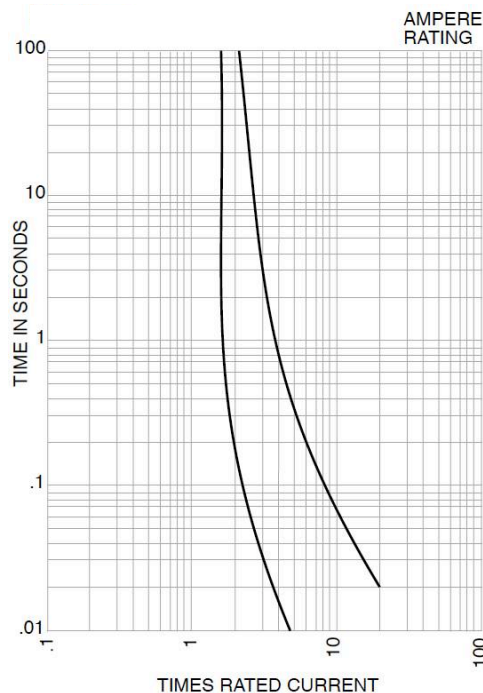
- Time delay (T)
- Glass cartridge, nickel plated end caps
- Break capacity, 35A/250V (250mA to 1A), 100A/250V (1A to 3A), 200A/250V (3A to 13A)
- To IEC 127



### 6.3x25mm British Plug Top Fuses

TYPE NO.	RATING
CFA1362/1A	1A
CFA1362/2A	2A
CFA1362/3A	3A
CFA1362/5A	5A
CFA1362/7A	7A
CFA1362/10A	10A
CFA1362/13A	13A

- Power dissipation max 1 Watt
- Ceramic tube, silver - plated copper end caps
- Break capacity, 6000A, 264VAC, 50Hz, p.f. 0.3 - 0.4
- BS1362, IEC 269 -3A



LIMITS FOR PRE-ARCING TIME			
	1.0 In.	1.6 In.	1.9 In.
In	MIN	MIN	MAX
1A - 13 A	1000 hrs	30 min.	30 min.



# FUSES & FUSEHOLDERS

## 6.3x32mm (1/4"x1 1/4") Glass and Ceramic Fuses

### 6.3x32mm Quick Blow Glass Fuses

TYPE NO.	RATING	TYPE NO.	RATING
CF06332F/100	100mA	CF06332F/2.5	2.5A
CF06332F/125	125mA	CF06332F/3	3A
CF06332F/160	160mA	CF06332F/3.15	3.15A
CF06332F/200	200mA	CF06332F/4	4A
CF06332F/250	250mA	CF06332F/5	5A
CF06332F/500	500mA	CF06332F/6.3	6.3A
CF06332F/750	750mA	CF06332F/7	7A
CF06332F/1	1A	CF06332F/7.5	7.5A
CF06332F/1.25	1.25A	CF06332F/8	8A
CF06332F/1.5	1.5A	CF06332F/10	10A
CF06332F/2	2A	CF06332F/15	15A

- Quick blow (F)
- Glass cartridge, nickel plated end caps
- Break capacity, 35A/250V (to 1A), 100A/250V (to 3.5A), 200A/250V (above 3.5A)
- To IEC 127

CF06332F

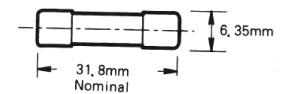


### 6.3x32mm Time Delay Glass Fuses

TYPE NO.	RATING	TYPE NO.	RATING
CF06332T/100	100mA	CF06332T/2.5	2.5A
CF06332T/125	125mA	CF06332T/3	3A
CF06332T/160	160mA	CF06332T/3.15	3.15A
CF06332T/200	200mA	CF06332T/4	4A
CF06332T/250	250mA	CF06332T/5	5A
CF06332T/500	500mA	CF06332T/6	6A
CF06332T/750	750mA	CF06332T/6.3	6.3A
CF06332T/1	1A	CF06332T/7	7A
CF06332T/1.25	1.25A	CF06332T/7.5	7.5A
CF06332T/1.5	1.5A	CF06332T/8	8A
CF06332T/2	2A	CF06332T/10	10A
		CF06332T/15	15A

- Time delay (T)
- Glass cartridge, nickel plated end caps
- Break capacity, 35A/250V (to 1A), 100A/250V (to 3.5A), 200A/250V (above 3.5A)
- To IEC 127

CF06332T

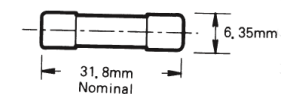


### 6.3x32mm Quick Blow Ceramic Fuses

TYPE NO.	RATING	TYPE NO.	RATING
CF06333CF/100	100mA	CF06333CF/3.15	3.15A
CF06333CF/250	200mA	CF06333CF/4	4A
CF06333CF/500	500mA	CF06333CF/5	5A
CF06333CF/750	750mA	CF06333CF/6	6A
CF06333CF/1	1A	CF06333CF/6.3	6.3A
CF06333CF/1.25	1.25A	CF06333CF/7.5	7.5A
CF06333CF/1.5	1.5A	CF06333CF/8	8A
CF06333CF/2	2A	CF06333CF/10	10A
CF06333CF/2.5	2.5A	CF06333CF/12	12A
		CF06333CF/15	15A
		CF06333CF/20	20A
		CF06333CF/25	25A

- Quick blow (F)
- Ceramic cartridge, nickel plated end caps
- Break capacity 1000A
- Sand filled
- us (500mA-15A)

CF06333CF

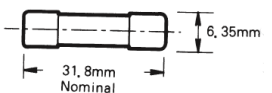


### 6.3x32mm Time Delay Ceramic Fuses

TYPE NO.	RATING	TYPE NO.	RATING
CF06333CT/100	100mA	CF06333CT/2.5	2.5A
CF06333CT/125	125mA	CF06333CT/3.15	3.15A
CF06333CT/160	160mA	CF06333CT/4	4A
CF06333CT/200	200mA	CF06333CT/5	5A
CF06333CT/250	250mA	CF06333CT/6	6A
CF06333CT/315	315mA	CF06333CT/6.3	6.3A
CF06333CT/400	400mA	CF06333CT/7	7A
CF06333CT/500	500mA	CF06333CT/7.5	7.5A
CF06333CT/750	750mA	CF06333CT/8	8A
CF06333CT/1	1A	CF06333CT/10	10A
CF06333CT/1.25	1.25A	CF06333CT/12	12A
CF06333CT/1.5	1.5A	CF06333CT/12.5	12.5A
CF06333CT/2	2A	CF06333CT/15	15A
		CF06333CT/20	20A
		CF06333CT/25	25A

- Time delay (T)
- Ceramic cartridge, nickel plated end caps
- Break capacity 1000A
- Sand filled
- us (500mA-15A)

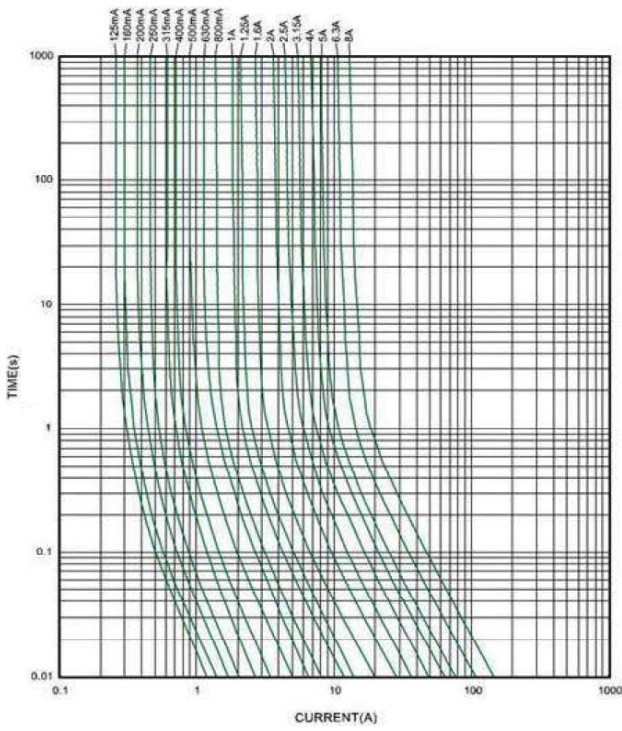
CF06333CT



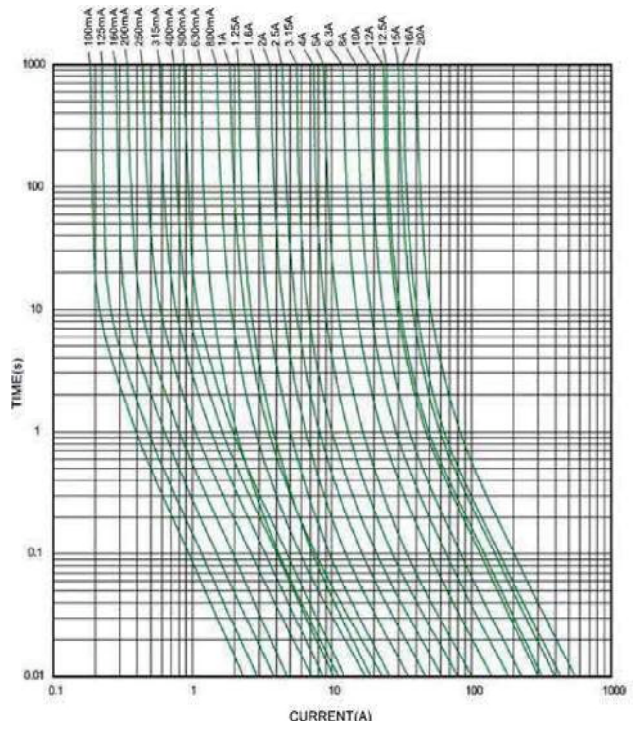


# FUSES & FUSEHOLDERS

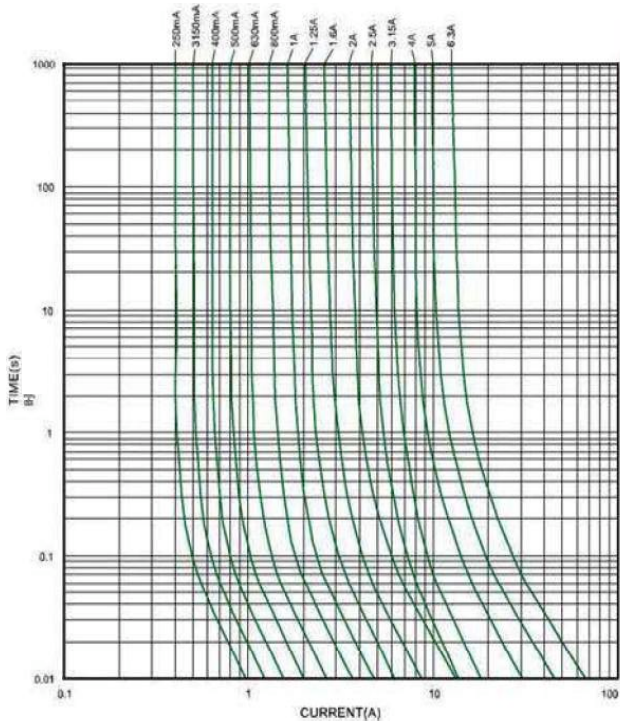
CF0520F



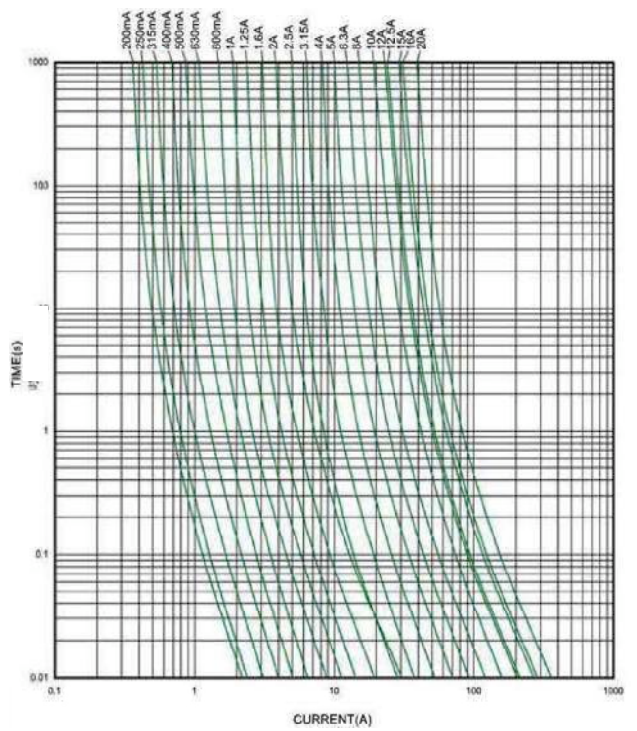
CF0520T



CF0521CF



CF0521CT



PCB  
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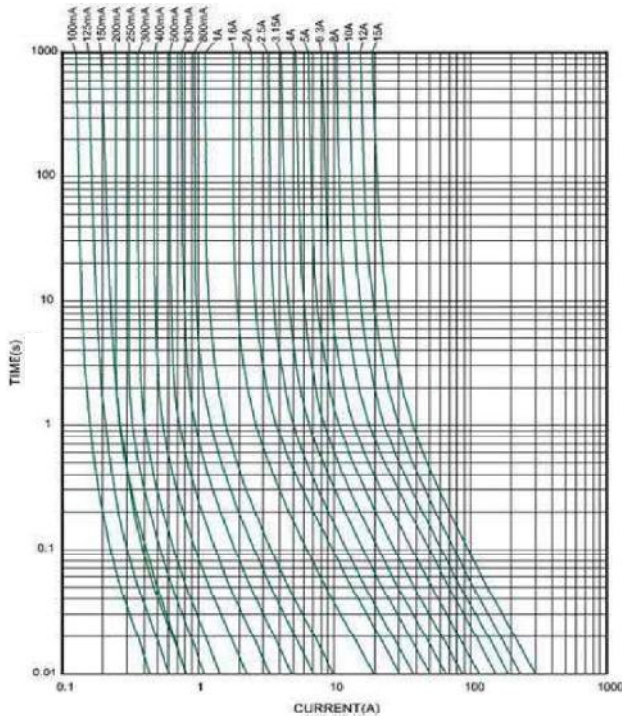
**CAMDENBOSS**  
ELECTRONICS & ENCLOSURES



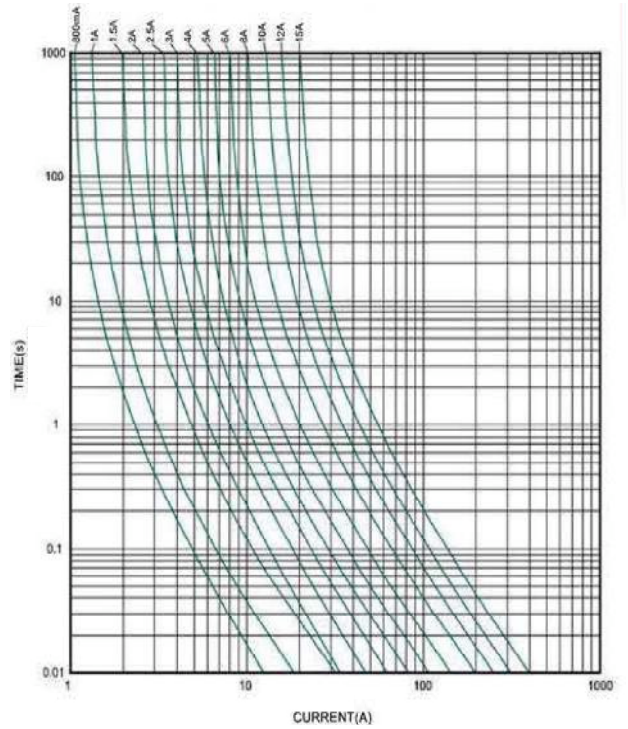
# FUSES & FUSEHOLDERS

- PCB TERMINAL BLOCKS
- INTER-CONNECTION
- FUSES & FUSE-HOLDERS**
- LEDs & INDICATORS
- MINIATURE SWITCHES
- LIMIT & SAFETY SWITCHES
- CONTROL PRODUCTS
- INTERFACE MODULES & SUPPORTS
- RELAY BASES
- ENCLOSURES
- BATTERIES
- TRANSFORMERS

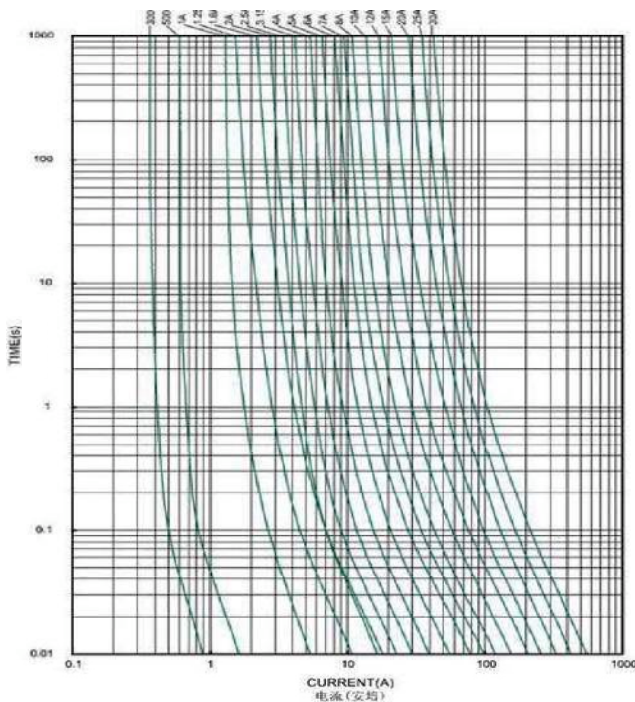
CF06332F



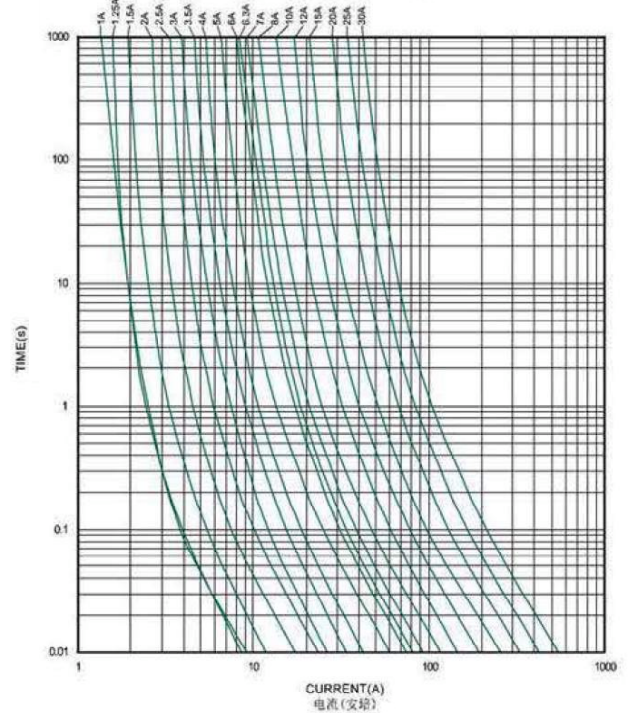
CF06332T



CF06333CF





CF06333CT



# FUSES & FUSEHOLDERS

## 8.5 x 31.5mm & 10.3x38mm aR Semiconductor Power Fuses

- Fast aR type for semiconductor protection
- Current limiting, super fast blow
- To IEC 60269-4
- CF08aR 400V rating
- CF10aR 500V standard rating, 690V and 1000V available
-  250mA-32A all voltage
-  250mA-32A 500V



### SPECIFICATION

Rating	CF08aR	400V	500mA-25A
	CF10aR	500V	250mA-15A
Breaking capacity	CF08aR	20kA	
	CF10aR	120kA	
Blow time @ $I_N$			min 4 hours
Blow time @ $4xI_N$	250mA-5A		3ms-1s
	6A-32A		10ms-10s
Blow time @ $10xI_N$	250mA-5A		max 20ms
	6A-32A		max 30ms

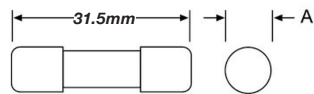
### 8.5x31.5 mm 400 V

TYPE NO.	RATING
CF0840aR/500	500mA
CF0840aR/630	630mA
CF0840aR/800	800mA
CF0840aR/1	1A
CF0840aR/1.25	1.25A
CF0840aR/2	2A
CF0840aR/2.5	2.5A
CF0840aR/3	3A
CF0840aR/3.5	3.5A
CF0840aR/4	4A
CF0840aR/5	5A
CF0840aR/6	6A
CF0840aR/6.3	6.3A
CF0840aR/7	7A
CF0840aR/8	8A
CF0840aR/9	9A
CF0840aR/10	10A
CF0840aR/12	12A
CF0840aR/12.5	12.5A
CF0840aR/15	15A
CF0840aR/16	16A
CF0840aR/20	20A
CF0840aR/25	25A

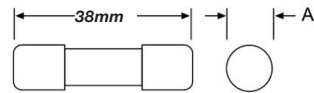
### 10.3x38mm 500V

TYPE NO.	RATING
CF1050aR/250	250mA
CF1050aR/315	315mA
CF1050aR/400	400mA
CF1050aR/500	500mA
CF1050aR/630	630mA
CF1050aR/800	800mA
CF1050aR/1	1A
CF1050aR/1.25	1.25A
CF1050aR/1.6	1.6A
CF1050aR/2	2A
CF1050aR/2.5	2.5A
CF1050aR/3	3A
CF1050aR/3.15	3.15A
CF1050aR/4	4A
CF1050aR/5	5A
CF1050aR/6	6A
CF1050aR/6.3	6.3A
CF1050aR/7	7A
CF1050aR/8	8A
CF1050aR/9	9A
CF1050aR/10	10A
CF1050aR/12	12A
CF1050aR/12.5	12.5A
CF1050aR/15	15A
CF1050aR/16	16A
CF1050aR/20	20A
CF1050aR/30	30A

400V



500V



Ø8.5mm

Ø10.3mm

PCB  
TERMINAL  
BLOCKS

INTER-  
CONNECTION

FUSES &  
FUSE-  
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LEDs &  
INDICATORS

MINIATURE  
SWITCHES

LIMIT &  
SAFETY  
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PRODUCTS

INTERFACE  
MODULES &  
SUPPORTS

RELAY  
BASES

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BATTERIES

TRANS-  
FORMERS

## 8.5x31.5mm aM Motor Circuit Protection Power Fuses

- Fast aM type typically for motor circuit protection
- aM fast acting short circuit protection, slow acting overload protection
- To IEC 60269
- 400V rating



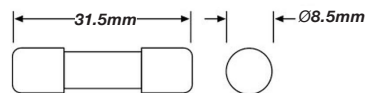
### SPECIFICATION

Rating	400V	1 - 10A
Breaking capacity	CF0840	20kA

### TYPE NO. RATING

CF0840aM/1	1A
CF0840aM/2	2A
CF0840aM/4	4A
CF0840aM/6	6A
CF0840aM/8	8A
CF0840aM/10	10A

400V



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# FUSES & FUSEHOLDERS

## 8.5x31.5mm & 10.3x38mm gG General Power Fuses

- Full gG range type typically for conductor protection
- Line protection, slow blow typically used for power distribution or reuse loads
- To IEC 60269
- CF08gG series 400V rating
- CF10gG Series 500V rating (32A 400V)



### SPECIFICATION

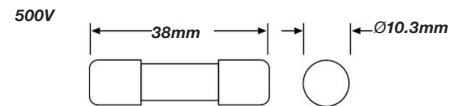
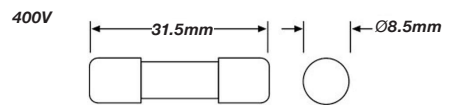
Rating	CF08gG	400V	500mA - 25A
	CF10gG	500V	500mA - 25A (32A 400V)
Breaking capacity	CF08gG	20kA	
	CF10gG	120kA	

### 8.5x31.5mm 400V

TYPE NO.	RATING
CF0840gG/500	500mA
CF0840gG/1	1A
CF0840gG/2	2A
CF0840gG/4	4A
CF0840gG/6	6A
CF0840gG/8	8A
CF0840gG/10	10A
CF0840gG/12	12A
CF0840gG/20	20A
CF0840gG/25	25A

### 10.3x38mm 500V

TYPE NO.	RATING
CF1050gG/500	500mA
CF1050gG/1	1A
CF1050gG/2	2A
CF1050gG/4	4A
CF1050gG/6	6A
CF1050gG/8	8A
CF1050gG/10	10A
CF1050gG/12	12A
CF1050gG/20	20A
CF1050gG/25	25A
CF1050gG/32	32A



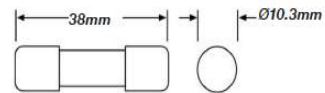
## 10.3x38mm gPV Solar Photovoltaic Power Fuses

- Fast gPV type for the protection of photovoltaic modules and their conductors
- Current limiting, super fast blow
- To IEC 60269
- 1000V rated
- UL & TUV approvals pending



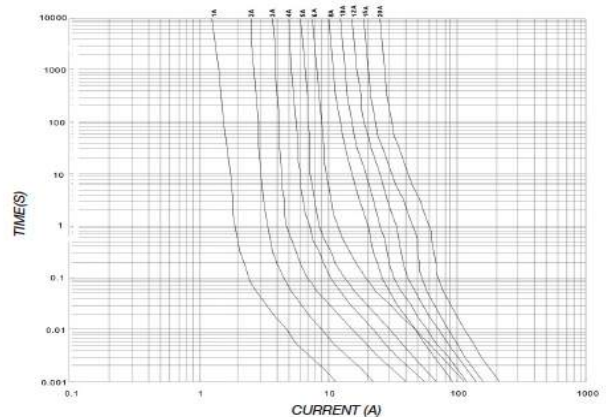
### SPECIFICATION

Rating	CF10gPV	1000V	1A - 20A
Breaking Capacity	CF10gPV	2kA AT 1000VDC	
		Blow time @ $I_n = 113\%$ of IR	1 hour min
		Blow time @ $I_n = 145\%$ of IR	1 hour max



TYPE NO.	RATING
CF1010gPV/1	1A
CF1010gPV/2	2A
CF1010gPV/3	3A
CF1010gPV/4	4A
CF1010gPV/5	5A
CF1010gPV/6	6A
CF1010gPV/8	8A
CF1010gPV/10	10A
CF1010gPV/12	12A
CF1010gPV/15	15A
CF1010gPV/20	20A

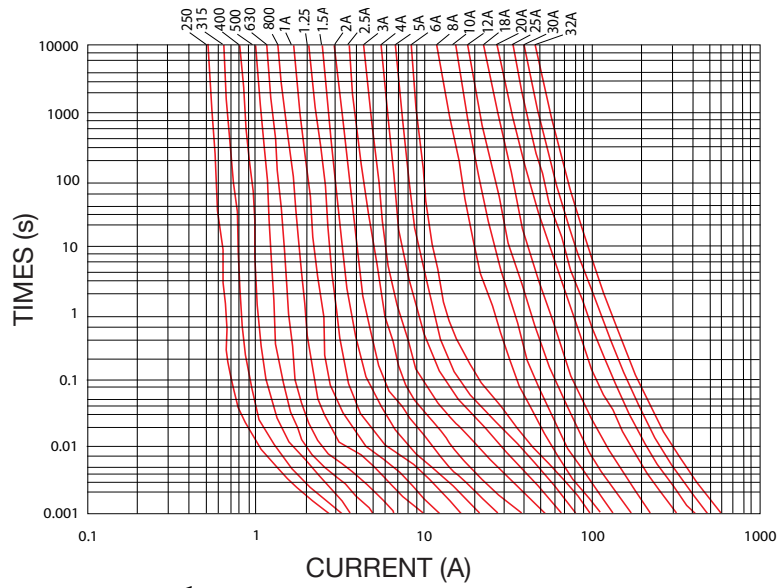
### CF1010gPV



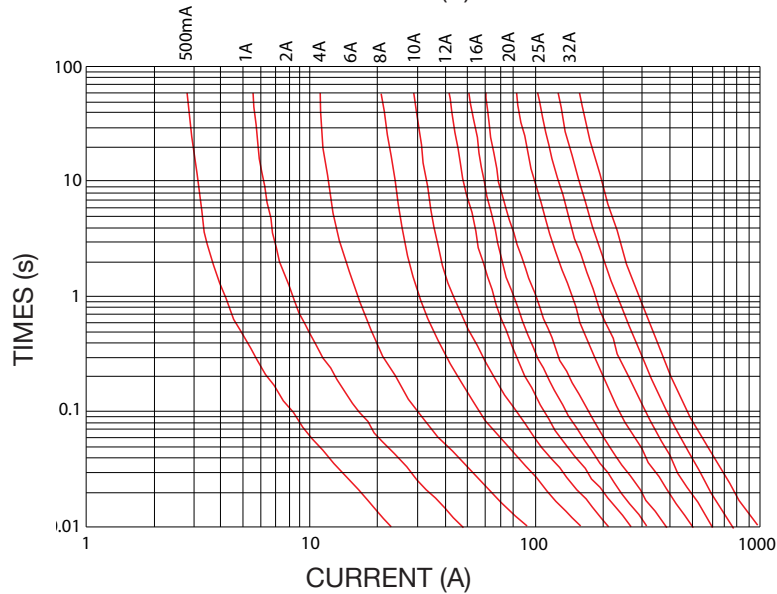


# FUSES & FUSEHOLDERS

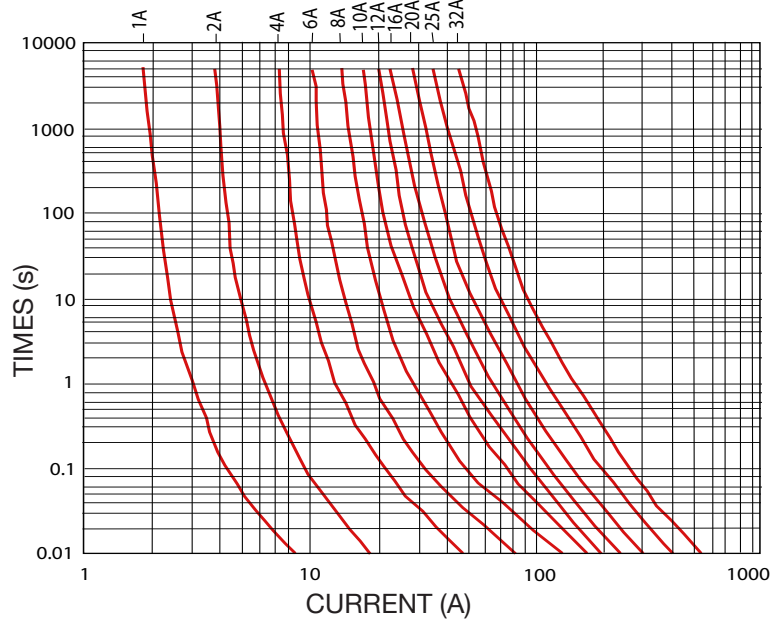
Powerfuse aR



Powerfuse aM



Powerfuse gG



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MODULES &  
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# FUSES & FUSEHOLDERS

## 2.4x7mm Micro Miniature Very Fast Acting Axial Fuses

- Very fast acting
-  (375mA -10A)
-  (100mA-10A) approved
- Banded

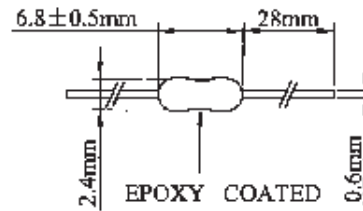
CF2470FF





### SPECIFICATION

Materials	Epoxy coated body
Interrupt current	30Amp@250Vac
Operating temperature	-55°C to 125°C
Soldering conditions	260°C for 10 sec max
Solder leads	Tin plated copper
Electrical characteristics	100%
	200%
	4 hours min blowing
	20 sec max blowing

TYPE NO.	RATING	TYPE NO.	RATING
CF2470FF/100	100mA	CF2470FF/1.2	1.2A
CF2470FF/125	125mA	CF2470FF/1.25	1.25A
CF2470FF/160	160mA	CF2470FF/1.5	1.5A
CF2470FF/200	200mA	CF2470FF/1.6	1.6A
CF2470FF/250	250mA	CF2470FF/2.25	2.25A
CF2470FF/300	300mA	CF2470FF/2.5	2.5A
CF2470FF/315	315mA	CF2470FF/3	3A
CF2470FF/350	350mA	CF2470FF/3.15	3.15A
CF2470FF/375	375mA	CF2470FF/3.5	3.5A
CF2470FF/400	400mA	CF2470FF/4	4A
CF2470FF/500	500mA	CF2470FF/5	5A
CF2470FF/600	600mA	CF2470FF/6	6A
CF2470FF/630	630mA	CF2470FF/6.3	6.3A
CF2470FF/700	700mA	CF2470FF/7	7A
CF2470FF/750	750mA	CF2470FF/8	8A
CF2470FF/800	800mA	CF2470FF/9	9A
CF2470FF/1	1A	CF2470FF/10	10A
CF2470FF/2	2A		



## 2.4x7mm Micro Miniature Slow Blow / Time Delay Axial Fuses

- Slow blow / Time delay
-  (375mA - 7A)
-  (100mA-15A) approved
- Banded

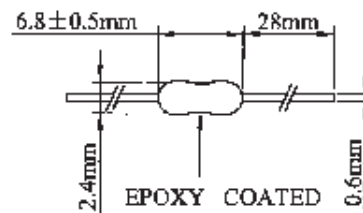
CF2470TT



### SPECIFICATION



Materials	Epoxy coated body
Interrupt current	30Amp@250Vac
Operating temperature	-55°C to 125°C
Soldering conditions	260°C for 10 sec max
Solder leads	Tin plated copper
Electrical characteristics	100%
	200%
	300%
	800%
	4 hours min blowing
	1 sec min, 60 sec max
	0.2 sec min, 3 sec max
	0.02 sec min, 0.1 sec max

TYPE NO.	RATING	TYPE NO.	RATING
CF2470TT/100	100mA	CF2470TT/1.2	1.2A
CF2470TT/125	125mA	CF2470TT/1.25	1.25A
CF2470TT/160	160mA	CF2470TT/1.5	1.5A
CF2470TT/200	200mA	CF2470TT/1.6	1.6A
CF2470TT/250	250mA	CF2470TT/2	2A
CF2470TT/300	300mA	CF2470TT/2.5	2.5A
CF2470TT/315	315mA	CF2470TT/3	3A
CF2470TT/350	350mA	CF2470TT/3.15	3.15A
CF2470TT/375	375mA	CF2470TT/3.5	3.5A
CF2470TT/400	400mA	CF2470TT/4	4A
CF2470TT/500	500mA	CF2470TT/5	5A
CF2470TT/600	600mA	CF2470TT/6	6A
CF2470TT/630	630mA	CF2470TT/6.3	6.3A
CF2470TT/750	750mA	CF2470TT/7	7A
CF2470TT/800	800mA	CF2470TT/8	8A
CF2470TT/1	1A	CF2470TT/9	9A
		CF2470TT/10	10A



# FUSES & FUSEHOLDERS

## Surface Mount Fuses

- Square Ceramic SMT Fuse
- Silver plated brass cap termination
- Quick Blow & time delay
- 125V Rating
- Supplied taped on 7" or 13" reel
- UL Recognised
-   approved

### CFSSMT



### SPECIFICATION

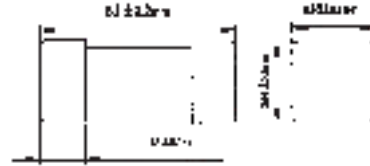
Rating	Quick Blow	125V 63mA-5A
	Time Delay	125V 200mA-5A
Interrupt current		50A or 10x In @ 125V
Soldering conditions	Infrared reflow	260°C for 20 sec max
	Wave flow	260°C for 10 sec max
Electrical characteristics	Quick Blow	1 hours min @ 1.25 In
		120 secs max @ 2 In
Time Delay	Time Delay	1 msec min @ 10 In
		10 msec max @ 10 In
Time Delay	Time Delay	4 hours min @ 1.5 In
		1 sec min @ 2 In
Time Delay	Time Delay	120 secs max @ 2 In
		10 msec min @ 10 In
Time Delay	Time Delay	100 msec max @ 10 In

### Quick Blow

TYPE NO.	RATING	I <sup>2</sup> t
CFSSMTF/63	63mA	0.0012
CFSSMTF/80	80mA	0.0021
CFSSMTF/100	100mA	0.0032
CFSSMTF/125	125mA	0.0048
CFSSMTF/160	160mA	0.0079
CFSSMTF/200	200mA	0.0131
CFSSMTF/250	250mA	0.0192
CFSSMTF/315	315mA	0.0301
CFSSMTF/400	400mA	0.0472
CFSSMTF/500	500mA	0.0768
CFSSMTF/630	630mA	0.1204
CFSSMTF/800	800mA	0.1886
CFSSMTF/1	1A	0.3000
CFSSMTF/1.25	1.25A	0.4050
CFSSMTF/1.6	1.6A	0.5025
CFSSMTF/2	2A	1.2510
CFSSMTF/2.5	2.5A	1.8520
CFSSMTF/3.15	3.15A	3.6075
CFSSMTF/4	4A	4.6400
CFSSMTF/5	5A	6.6500

### Time Delay

TYPE NO.	RATING	I <sup>2</sup> t
CFSSMTT/200	200mA	0.0865
CFSSMTT/250	250mA	0.1320
CFSSMTT/315	315mA	0.2085
CFSSMTT/400	400mA	0.3310
CFSSMTT/500	500mA	0.5122
CFSSMTT/630	630mA	0.8055
CFSSMTT/800	800mA	1.3044
CFSSMTT/1	1A	1.9090
CFSSMTT/1.25	1.25A	2.8102
CFSSMTT/1.6	1.6A	4.5385
CFSSMTT/2	2A	8.8570
CFSSMTT/2.5	2.5A	16.550
CFSSMTT/3.15	3.15A	32.210
CFSSMTT/4	4A	40.800
CFSSMTT/5	5A	65.000



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# FUSES & FUSEHOLDERS

## SURFACE MOUNT FUSES - 1206 case size



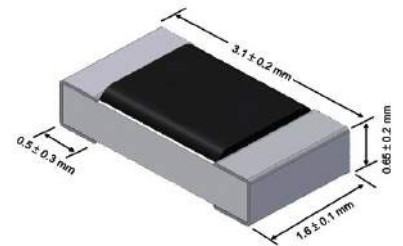
- Thin film structure design with ceramic body, copper and tin alloy element
- Wide range of current ratings from 0.2A to 7A. Voltage up to 63V DC (32V AC)
- Multi-layer construction for stable fusing characteristics
- Suitable for lead-free reflow and wave soldering process
- 100% RoHS and REACH compliant
- UL Recognised from 0.2A to 7A
- Operating temperature range -55 °C + 125 °C

### SPECIFICATIONS

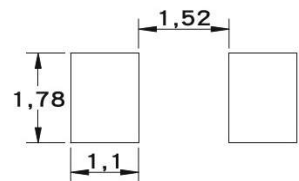
Construction Body Material	Ceramic		
Termination Material	Copper(Cu), Nickel(Ni), Tin(Sn)		
Fuse Element	Copper(Cu), Tin(Sn)		
Interrupting Rating	50A at 32VAC 50A at 63VDC		
Soldering Method	<ul style="list-style-type: none"> <li>• Reflow Soldering 260 °C, 30 Sec. max.</li> <li>• Wave Soldering 260 °C, 10 sec. max.</li> <li>• Hand Soldering 350 °C, 3 sec. max.</li> </ul>		
Rated Current	1In	2In	3In
	MIN	MAX	MAX
Fast Blow	0.2A - 7A	4hr	5 sec
Time Delay	0.2A - 7A	4hr	120 sec

### QUICK BLOW

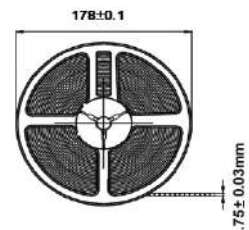
TYPE NO.	MARKING	AMPERE RATING(In)	VOLTAGE RATING( V)	NOMINAL R COLD OHMS	NOMINAL MELTING I <sup>2</sup> t A <sup>2</sup> SEC
CF1206F/200	C	200mA	63V	2.400	0.002
CF1206F/500	F	500mA		0.500	0.022
CF1206F/750	G	750mA		0.220	0.032
CF1206F/001	H	1A		0.155	0.052
CF1206F/1.25	J	1.25A		0.090	0.072
CF1206F/1.50	K	1.5A		0.059	0.100
CF1206F/002	N	2A		0.034	0.210
CF1206F/2.50	O	2.5A		0.028	0.320
CF1206F/003	P	3A		0.020	0.405
CF1206F/004	S	4A		0.014	0.745
CF1206F/005	T	5A		0.010	1.350
CF1206F/007	U	7A		0.007	2.870



Recommended Land Pattern



Reflow Solder

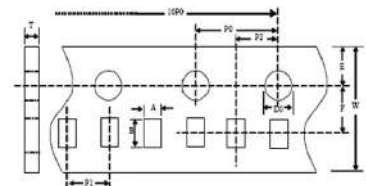


### TIME DELAY

TYPE NO.	MARKING	AMPERE RATING(In)	VOLTAGE RATING( V)	NOMINAL R COLD OHMS	NOMINAL MELTING I <sup>2</sup> t A <sup>2</sup> SEC
CF1206T/200	C	200mA	63V	2.100	0.004
CF1206T/500	F	500mA		0.420	0.023
CF1206T/750	G	750mA		0.195	0.043
CF1206T/001	H	1A		0.115	0.073
CF1206T/1.50	K	1.5A		0.055	0.121
CF1206T/002	N	2A		0.029	0.250
CF1206T/2.50	O	2.5A		0.022	0.350
CF1206T/003	P	3A		0.018	0.442
CF1206T/004	S	4A		0.012	0.815
CF1206T/005	T	5A		0.009	1.682
CF1206T/007	U	7A		0.005	4.645

### Tap and Reel Specification

ITEM	A	B	W	E	F	P°	P <sup>1</sup>	P <sup>2</sup>	D°	T	10
Criterion	2.000	3.500	8.000	1.750	3.500	4.000	4.000	2.000	1.550	0.750	0.750
MAX	2.050	3.550	8.100	1.800	3.550	4.100	4.100	2.050	1.600	0.780	40.100
MIN	1.950	3.450	7.900	1.700	3.450	3.900	3.900	1.950	1.500	0.720	39.900

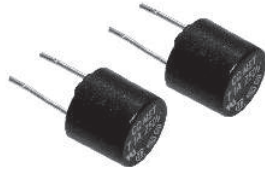


# FUSES & FUSEHOLDERS

## Radial Lead Fuses (Round)

- Quick Blow & Time Delay
- 250V Rating
- Supplied in taped ammo pack
- IEC 60127
- Time Delay: BSI approved

CFRT05



### SPECIFICATION

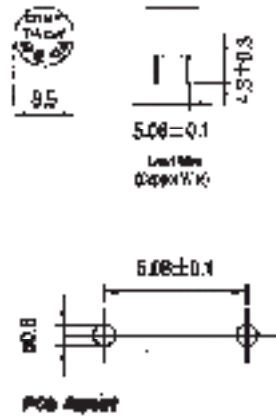
Rating	Quick Blow	250V 50mA-6.3A
	Time Delay	250V 40mA-6.3A
Interrupt current		35A or 10x I <sub>n</sub> @ 240V
Soldering conditions	Infrared reflow	260°C for 20 sec max
	Wave flow	260°C for 10 sec max
Electrical characteristics	Quick Blow	60 mins min @ 1.5 I <sub>n</sub>
		30 mins max @ 2.1 I <sub>n</sub>
	Time Delay	10 msec min @ 2.75 I <sub>n</sub>
		3 sec max @ 2.75 I <sub>n</sub>
		3 msec min @ 4 I <sub>n</sub>
		300 msec max @ 4 I <sub>n</sub>
	20 msec max @ 10 I <sub>n</sub>	
	60 mins min @ 1.5 I <sub>n</sub>	

### Quick Blow

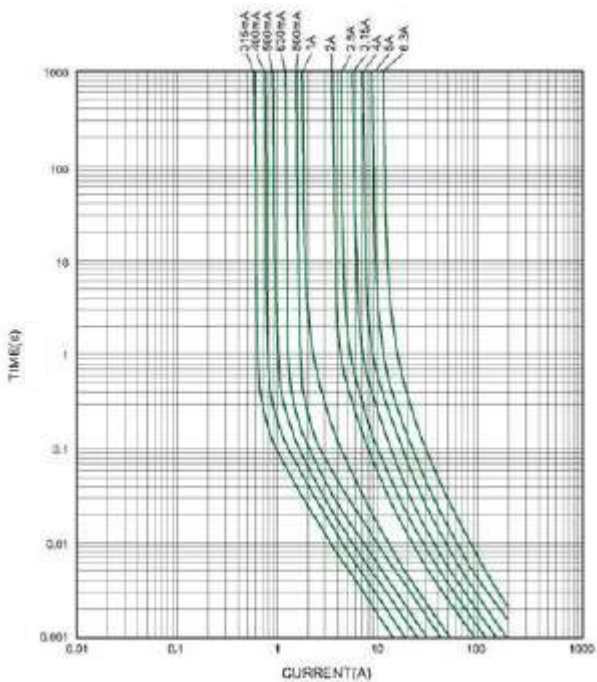
TYPE NO.	RATING	I <sup>2</sup> t
CFRT05F/50	50mA	0.000325
CFRT05F/63	63mA	0.001580
CFRT05F/80	80mA	0.003200
CFRT05F/100	100mA	0.005000
CFRT05F/125	125mA	0.006250
CFRT05F/160	160mA	0.007680
CFRT05F/200	200mA	0.024000
CFRT05F/250	250mA	0.043750
CFRT05F/315	315mA	0.059530
CFRT05F/400	400mA	0.080000
CFRT05F/500	500mA	0.083000
CFRT05F/600	600mA	0.119000
CFRT05F/800	800mA	0.192000
CFRT05F/1	1A	0.300000
CFRT05F/1.25	1.25A	0.468700
CFRT05F/1.6	1.6A	0.896000
CFRT05F/2	2A	1.200000
CFRT05F/2.5	2.5A	2.500000
CFRT05F/3.15	3.15A	3.969000
CFRT05F/4	4A	7.200000
CFRT05F/5	5A	15.000000
CFRT05F/6.3	6.3A	47.628000

### Time Delay

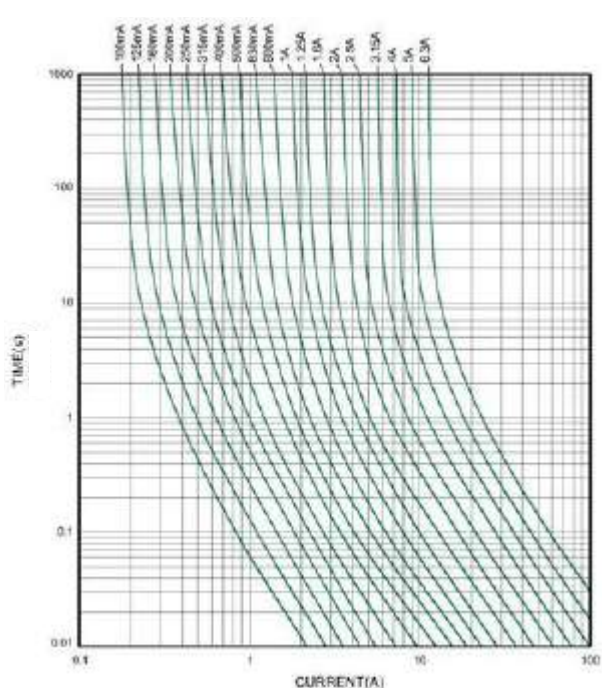
TYPE NO.	RATING	I <sup>2</sup> t
CFRT05T/40	40mA	0.016000
CFRT05T/50	50mA	0.020000
CFRT05T/63	63mA	0.027700
CFRT05T/80	80mA	0.019200
CFRT05T/100	100mA	0.030000
CFRT05T/125	125mA	0.010900
CFRT05T/160	160mA	0.133100
CFRT05T/200	200mA	0.200000
CFRT05T/250	250mA	0.375000
CFRT05T/315	315mA	0.545700
CFRT05T/400	400mA	1.040000
CFRT05T/500	500mA	0.250000
CFRT05T/630	630mA	2.302000
CFRT05T/800	800mA	3.136000
CFRT05T/1	1A	6.500000
CFRT05T/1.25	1.25A	12.500000
CFRT05T/1.6	1.6A	18.94400
CFRT05T/2	2A	32.00000
CFRT05T/2.5	2.5A	37.50000
CFRT05T/3.15	3.15A	84.34100
CFRT05T/4	4A	144.00000
CFRT05T/5	5A	162.50000
CFRT05T/6.3	6.3A	277.83000



Quick Blow



Time Delay



PCB  
TERMINAL  
BLOCKS

INTER-  
CONNECTION

FUSES &  
FUSE-  
HOLDERS

LEDs &  
INDICATORS

RELAY  
BASES

ENCLOSURES

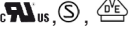
BATTERIES

TRANS-  
FORMERS



# FUSES & FUSEHOLDERS

## Radial Lead Fuses (Square)

- Quick Blow & Time Delay
- 250V Rating
- Supplied in taped ammo pack
- IEC 60127
-  approved

CFST05



### SPECIFICATION

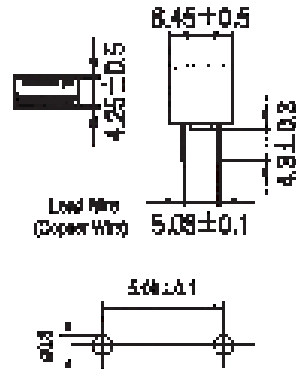
Rating	Quick Blow	250V 50mA-6.3A
	Time Delay	250V 40mA-6.3A
Interrupt current		35A or 10x I <sub>n</sub> @ 240V
Soldering conditions	Infrared reflow	260°C for 20 sec max
	Wave flow	260°C for 10 sec max
Electrical characteristics	Quick Blow	60 mins min @ 1.5 I <sub>n</sub>
		30 mins max @ 2.1 I <sub>n</sub>
	10 msec min @ 2.75 I <sub>n</sub>	
	3 sec max @ 2.75 I <sub>n</sub>	
	3 msec min @ 4 I <sub>n</sub>	
	200 msec max @ 4 I <sub>n</sub>	
	300 msec max @ 10 I <sub>n</sub>	
	Time Delay	60 mins min @ 1.5 I <sub>n</sub>
		2 mins max @ 2.1 I <sub>n</sub>
		400 msec min @ 2.75 I <sub>n</sub>
10 sec max @ 2.75 I <sub>n</sub>		
		150 msec min @ 4 I <sub>n</sub>
		3 sec max @ 4 I <sub>n</sub>
		20 msec min @ 10 I <sub>n</sub>
		100 msec max @ 10 I <sub>n</sub>

### Quick Blow

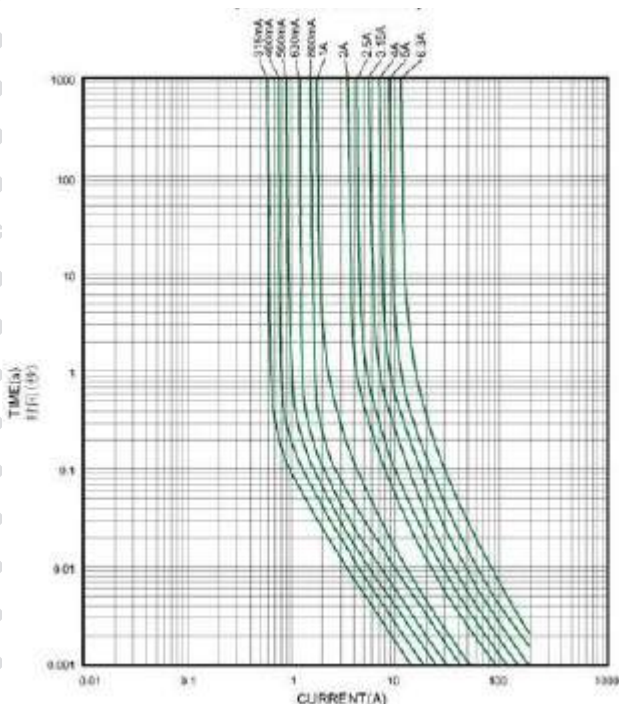
TYPE NO.	RATING	I <sup>2</sup> t
CFST05F/50	50mA	0.000325
CFST05F/63	63mA	0.001580
CFST05F/80	80mA	0.003200
CFST05F/100	100mA	0.005000
CFST05F/125	125mA	0.006250
CFST05F/160	160mA	0.007680
CFST05F/200	200mA	
CFST05F/250	250mA	
CFST05F/315	315mA	
CFST05F/400	400mA	
CFST05F/500	500mA	
CFST05F/600	600mA	
CFST05F/800	800mA	
CFST05F/1	1A	
CFST05F/1.25	1.25A	
CFST05F/1.6	1.6A	
CFST05F/2	2A	
CFST05F/2.5	2.5A	
CFST05F/3.15	3.15A	
CFST05F/4	4A	
CFST05F/5	5A	
CFST05F/6.3	6.3A	

### Time Delay

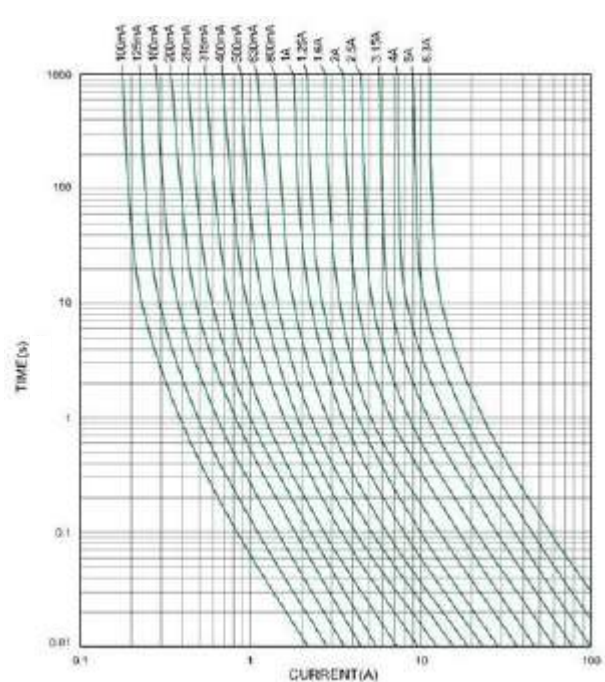
TYPE NO.	RATING	I <sup>2</sup> t
CFST05T/40	40mA	0.016000
CFST05T/50	50mA	0.020000
CFST05T/63	63mA	0.027700
CFST05T/80	80mA	0.019200
CFST05T/100	100mA	0.030000
CFST05T/125	125mA	0.010900



Quick Blow



Time Delay

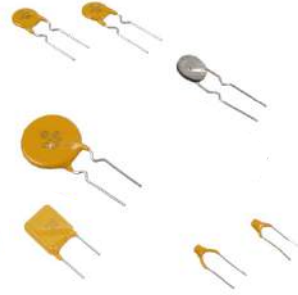




# FUSES & FUSEHOLDERS

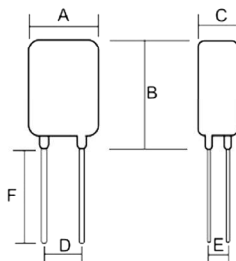
## PTC Self-Resetting Fuses

- PTC - Polymer Positive Temperature Coefficient
- Voltages from 6V to 250V
- Ratings from 0.03A to 14A
- Radial lead
- UL94-V0 rated epoxy casing
- 5mm pitch available in bulk or ammo pack, 10mm pitch available in bulk
- UL pending, CFPO series

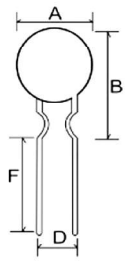


### SPECIFICATION

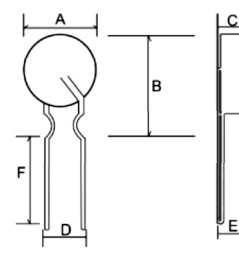
Temperature rating	-40°C to +85°C
Maximum temperature	≤125°C
Typical recovery time(25°C)	≤20secs after fault removed
Resistance at tripping point	$V^2/P_d$
The fuse will recover if $V^2/4R_t < P_d$	
<i>(R<sub>t</sub>=load resistance, V=operating voltage and P<sub>d</sub>=dissipation power)</i>	
Materials:	Leads Tin plated copper or steel
	Body Flame retardant epoxy UL94-V0 rated



**CFPLA**  
CFPM 250-900  
CFPN 185-600  
CFPO 160-400  
CFPPA 090-380  
CFPP 018-380

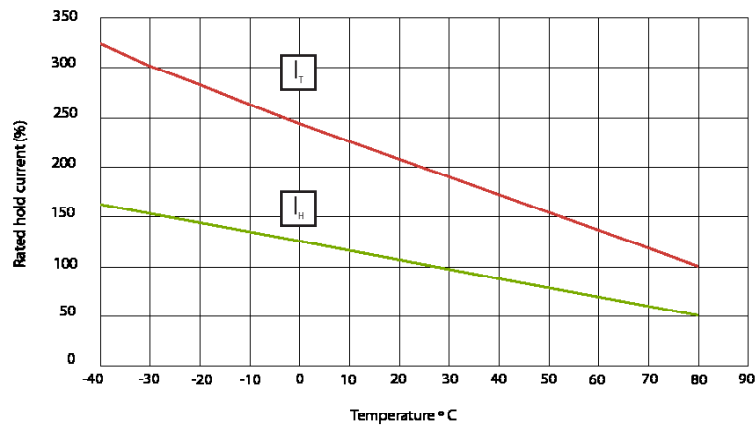


**CFPL**  
CFPM 010-185  
CFPN 005-160  
CFPNA  
CFPO 005-135  
CFPPA 010-075  
CFPP 010-120



### Selecting a PTC

- Select the PTC series by maximum  $V_{rms}$
- Select the part number by the holding current  $I_H$
- If the ambient temperature is not 25°C, select  $I_H$  using the following chart
- Check the minimum trip current  $I_T$  and trip time  $t_T$  against the rated over current



PCB  
TERMINAL  
BLOCKS

INTER-  
CONNECTION

FUSES &  
FUSE-  
HOLDERS

LEDs &  
INDICATORS

MINIATURE  
SWITCHES

LIMIT &  
SAFETY  
SWITCHES

CONTROL  
PRODUCTS

INTERFACE  
MODULES &  
SUPPORTS

RELAY  
BASES

ENCLOSURES

BATTERIES

TRANS-  
FORMERS

# FUSES & FUSEHOLDERS

## 6V & 16V PTC Fuses

	V <sub>rms</sub>	I <sub>H</sub>	Ω min	Ω max	I <sub>T</sub>	I <sub>max</sub>	t <sub>T</sub>	A	B	C	D
CFPLA/005	6V	0.05A	13.0R	25.0R	0.10A	1A	3.1/0.25sec	3.10mm	6.40mm	2.30mm	3.0mm
CFPLA/010	6V	0.10A	2.54R	3.70R	0.20A	3A	3.1/0.50sec	3.10mm	6.40mm	2.30mm	3.0mm
CFPLA/020	6V	0.20A	0.78R	2.80R	0.40A	5A	3.1/1.00sec	3.10mm	6.40mm	2.30mm	3.0mm
CFPLA/030	6V	0.30A	0.60R	1.50R	0.60A	5A	3.1/1.50sec	3.40mm	6.70mm	2.30mm	3.0mm
CFPL/005	16V	0.05A	20.0R	35R	0.10A	1A	3.1/0.25sec	5.20mm	10.50mm	2.50mm	5.0mm
CFPL/010	16V	0.10A	4.70R	8.50R	0.20A	3A	3.1/0.50sec	5.20mm	10.50mm	2.50mm	5.0mm
CFPL/020	16V	0.20A	1.40R	2.50R	0.40A	5A	3.2/1.00sec	5.20mm	10.50mm	2.50mm	5.0mm
CFPL/030	16V	0.30A	0.550R	1.130R	0.60A	5A	3.5/1.50sec	5.20mm	10.50mm	2.50mm	5.0mm
CFPL/040	16V	0.40A	0.380R	0.750R	0.80A	10A	3.2/2.00sec	5.20mm	10.50mm	2.50mm	5.0mm
CFPL/050	16V	0.50A	0.250R	0.620R	1.00A	10A	3.0/2.50sec	5.20mm	10.50mm	2.50mm	5.0mm
CFPL/070	16V	0.70A	0.140R	0.350R	1.40A	20A	3.0/3.50sec	5.20mm	10.50mm	2.50mm	5.0mm
CFPL/090	16V	0.90A	0.110R	0.210R	1.80A	100A	2.8/4.50sec	6.50mm	11.50mm	2.50mm	5.0mm
CFPL/110	16V	1.10A	0.095R	0.160R	2.20A	100A	3.0/5.50sec	7.00mm	12.20mm	2.50mm	5.0mm
CFPL/130	16V	1.30A	0.075R	0.140R	2.60A	100A	3.0/6.50sec	7.80mm	12.80mm	2.50mm	5.0mm
CFPL/160	16V	1.60A	0.063R	0.120R	3.20A	100A	3.2/8.00sec	8.20mm	13.20mm	2.50mm	5.0mm
CFPL/185	16V	1.85A	0.040R	0.094R	3.70A	100A	3.8/9.25sec	8.80mm	13.80mm	2.50mm	5.0mm
CFPL/250	16V	2.50A	0.028R	0.051R	5.00A	100A	4.3/12.5sec	9.80mm	14.80mm	2.50mm	5.0mm
CFPL/300	16V	3.00A	0.024R	0.042R	6.00A	100A	4.8/15.00sec	10.30mm	15.30mm	2.50mm	5.0mm
CFPL/400	16V	4.00A	0.014R	0.027R	8.00A	100A	5.0/20.00sec	10.00mm	18.80mm	2.80mm	5.0mm
CFPL/500	16V	5.00A	0.012R	0.023R	10.00A	100A	5.7/25.00sec	10.00mm	18.80mm	2.80mm	5.0mm
CFPL/600	16V	6.00A	0.010R	0.020R	12.00A	100A	6.3/30.00sec	12.00mm	18.80mm	2.80mm	5.0mm
CFPL/700	16V	7.00A	0.008R	0.018R	14.00A	100A	8.0/35.00sec	13.50mm	21.50mm	2.80mm	5.0mm
CFPL/900	16V	9.00A	0.005R	0.013R	18.00A	100A	9.6/45.00sec	14.50mm	24.00mm	2.80mm	5.0mm
CFPL/1100	16V	11.00A	0.004R	0.010R	22.00A	100A	10.8/55.0sec	19.00mm	26.50mm	2.80mm	10.0mm
CFPL/1200	16V	12.00A	0.004R	0.009R	24.00A	100A	13.0/60.0sec	20.50mm	27.00mm	2.80mm	10.0mm
CFPL/1400	16V	14.00A	0.003R	0.008R	28.00A	100A	15.0/70.0sec	23.00mm	31.00mm	2.80mm	10.0mm
CFPL/1600	16V	16.00A	0.002R	0.007R	32.00A	100A	18.0/80.0sec	28.00mm	35.00mm	2.80mm	10.0mm

## 30V PTC Fuses

	V <sub>rms</sub>	I <sub>H</sub>	Ω min	Ω max	I <sub>T</sub>	I <sub>max</sub>	t <sub>T</sub>	A	B	C	D	E
CFPM/010	30V	0.10A	4.500R	8.500R	0.20A	40A	3.6/0.50sec	5.20mm	10.30mm	2.50mm	5.0mm	0.9mm
CFPM/015	30V	0.15A	2.500R	4.780R	0.30A	40A	3.3/0.75sec	5.20mm	10.30mm	2.50mm	5.0mm	0.9mm
CFPM/030	30V	0.30A	0.550R	1.100R	0.60A	40A	3.1/1.50sec	5.20mm	10.30mm	2.50mm	5.0mm	0.9mm
CFPM/040	30V	0.40A	0.380R	0.750R	0.80A	40A	3.0/2.00sec	5.20mm	10.30mm	2.50mm	5.0mm	0.9mm
CFPM/050	30V	0.50A	0.240R	0.580R	1.00A	40A	2.8/2.50sec	5.20mm	10.30mm	2.50mm	5.0mm	0.9mm
CFPM/070	30V	0.70A	0.135R	0.310R	1.40A	40A	3.0/3.50sec	6.50mm	11.50mm	2.50mm	5.0mm	0.9mm
CFPM/090	30V	0.90A	0.120R	0.210R	1.80A	40A	3.0/4.50sec	7.00mm	13.50mm	2.50mm	5.0mm	1.10mm
CFPM/110	30V	1.10A	0.095R	0.160R	2.20A	40A	3.2/5.50sec	7.80mm	14.20mm	2.50mm	5.0mm	1.10mm
CFPM/135	30V	1.35A	0.068R	0.140R	2.70A	40A	3.5/6.75sec	9.00mm	16.00mm	2.50mm	5.0mm	1.10mm
CFPM/160	30V	1.60A	0.065R	0.125R	3.20A	40A	3.8/8.00sec	9.80mm	16.50mm	2.80mm	5.0mm	1.10mm
CFPM/185	30V	1.85A	0.045R	0.095R	3.70A	40A	4.0/9.25sec	11.00mm	17.00mm	2.80mm	5.0mm	1.10mm
CFPM/250	30V	2.50A	0.025R	0.062R	5.00A	40A	5.2/12.50sec	11.50mm	17.30mm	2.80mm	5.0mm	1.30mm
CFPM/300	30V	3.00A	0.020R	0.042R	6.00A	40A	6.4/15.00sec	13.00mm	17.80mm	2.80mm	5.0mm	1.30mm
CFPM/400	30V	4.00A	0.014R	0.032R	8.00A	40A	7.3/20.00sec	16.00mm	20.50mm	2.80mm	10.0mm	1.30mm
CFPM/500	30V	5.00A	0.012R	0.028R	10.00A	40A	7.8/25.00sec	19.00mm	22.50mm	2.80mm	10.0mm	1.30mm
CFPM/600	30V	6.00A	0.008R	0.023R	12.00A	40A	9.0/30.00sec	21.50mm	25.00mm	2.80mm	10.0mm	1.30mm
CFPM/700	30V	7.00A	0.007R	0.020R	14.00A	40A	12.5/35.00sec	22.50mm	25.50mm	2.80mm	10.0mm	1.30mm
CFPM/800	30V	8.00A	0.006R	0.013R	16.00A	40A	13.7/40.00sec	24.80mm	27.50mm	3.00mm	10.0mm	1.50mm
CFPM/900	30V	9.00A	0.006R	0.012R	18.00A	40A	15.5/45.00sec	25.50mm	28.00mm	3.00mm	10.0mm	1.50mm

# FUSES & FUSEHOLDERS

## 60V PTC Fuses

	V <sub>rms</sub>	I <sub>H</sub>	Ω min	Ω max	I <sub>T</sub>	I <sub>max</sub>	t <sub>T</sub>	A	B	C	D	E
CFPN/005	60V	0.05A	15.0R	30.0R	0.10A	20A	2.5/0.25sec	4.20mm	10.50mm	2.50mm	5.0mm	1.20mm
CFPN/010	60V	0.10A	4.2R	9.5R	0.20A	40A	2.2/0.50sec	5.20mm	11.50mm	2.50mm	5.0mm	1.20mm
CFPN/015	60V	0.15A	2.2R	5.5R	0.30A	40A	2.3/0.75sec	5.20mm	11.50mm	2.50mm	5.0mm	1.20mm
CFPN/017	60V	0.17A	2.0R	4.2R	0.34A	40A	2.3/0.85sec	5.20mm	11.50mm	2.50mm	5.0mm	1.20mm
CFPN/020	60V	0.20A	1.4R	2.6R	0.40A	40A	2.3/1.00sec	6.00mm	12.10mm	2.50mm	5.0mm	1.20mm
CFPN/025	60V	0.25A	1.05R	1.85R	0.50A	40A	2.5/1.25sec	6.80mm	12.80mm	2.50mm	5.0mm	1.20mm
CFPN/030	60V	0.30A	0.700R	1.280R	0.60A	40A	2.8/1.50sec	6.80mm	12.80mm	2.50mm	5.0mm	1.20mm
CFPN/040	60V	0.40A	0.550R	0.910R	0.80A	40A	3.0/2.00sec	7.50mm	13.50mm	2.50mm	5.0mm	1.20mm
CFPN/050	60V	0.50A	0.380R	0.720R	1.00A	40A	3.5/2.50sec	8.70mm	14.80mm	2.50mm	5.0mm	1.20mm
CFPN/065	60V	0.65A	0.270R	0.450R	1.30A	40A	3.8/3.25sec	9.30mm	15.30mm	2.50mm	5.0mm	1.20mm
CFPN/075	60V	0.75A	0.230R	0.400R	1.50A	40A	4.1/3.75sec	9.50mm	15.50mm	2.80mm	5.0mm	1.30mm
CFPN/090	60V	0.90A	0.170R	0.350R	1.80A	40A	4.3/4.50sec	11.00mm	17.00mm	2.80mm	5.0mm	1.30mm
CFPN/110	60V	1.10A	0.130R	0.250R	2.20A	40A	4.8/5.50sec	11.50mm	17.50mm	2.80mm	5.0mm	1.30mm
CFPN/135	60V	1.35A	0.100R	0.200R	2.70A	40A	5.7/6.75sec	13.90mm	20.00mm	2.80mm	5.0mm	1.30mm
CFPN/160	60V	1.60A	0.070R	0.160R	3.20A	40A	6.5/8.00sec	14.00mm	20.30mm	2.80mm	5.0mm	1.30mm
CFPN/185	60V	1.85A	0.060R	0.130R	3.70A	40A	7.6/9.25sec	15.50mm	20.50mm	3.00mm	10.0mm	1.70mm
CFPN/210	60V	2.10A	0.055R	0.110R	4.20A	40A	8.5/10.50sec	16.50mm	22.80mm	3.00mm	10.0mm	1.70mm
CFPN/250	60V	2.50A	0.040R	0.085R	5.00A	40A	9.8/12.50sec	19.00mm	24.00mm	3.00mm	10.0mm	1.70mm
CFPN/300	60V	3.00A	0.032R	0.065R	6.00A	40A	10.3/15.00sec	22.50mm	26.00mm	3.00mm	10.0mm	1.70mm
CFPN/380	60V	3.80A	0.025R	0.050R	7.60A	40A	13.5/19.0sec	24.00mm	28.00mm	3.00mm	10.0mm	1.70mm
CFPN/500	60V	5.00A	0.018R	0.038R	10.00A	40A	17.6/25.00sec	27.00mm	31.00mm	3.00mm	10.0mm	1.70mm
CFPN/600	60V	6.00A	0.010R	0.028R	12.00A	40A	20.7/30.00sec	28.90mm	33.00mm	3.00mm	10.0mm	1.70mm

## 130V PTC Fuses

	V <sub>rms</sub>	I <sub>H</sub>	Ω min	Ω max	I <sub>T</sub>	I <sub>max</sub>	t <sub>T</sub>	A	B	C	D	(mm)
CFPNA/010	130V	0.10A	6.500R	9.500R	0.20A	40A	6.0/0.50sec	7.55mm	13.80mm	3.00mm	5.0mm	1.70mm
CFPNA/015	130V	0.15A	4.000R	7.500R	0.30A	40A	5.5/0.75sec	7.55mm	13.80mm	3.00mm	5.0mm	1.70mm
CFPNA/017	130V	0.17A	3.000R	6.500R	0.34A	40A	5.2/0.85sec	8.20mm	14.80mm	3.00mm	5.0mm	1.70mm
CFPNA/020	130V	0.20A	1.900R	3.300v	0.40A	40A	5.0/1.00sec	8.20mm	14.80mm	3.00mm	5.0mm	1.70mm
CFPNA/025	130V	0.25A	1.450R	2.400R	0.50A	40A	4.8/1.25sec	8.20mm	14.80mm	3.00mm	5.0mm	1.80mm
CFPNA/030	130V	0.30A	0.900R	1.600R	0.60A	40A	4.5/1.50sec	8.20mm	14.80mm	3.00mm	5.0mm	1.80mm
CFPNA/040	130V	0.40A	0.750R	1.320R	0.80A	40A	4.5/2.00sec	9.30mm	15.80mm	3.00mm	5.0mm	1.80mm
CFPNA/050	130V	0.50A	0.500R	1.000R	1.00A	40A	5.0/2.50sec	10.00mm	16.30mm	3.00mm	5.0mm	1.80mm
CFPNA/065	130V	0.65A	0.450R	0.800R	1.30A	40A	5.2/3.25sec	11.20mm	17.40mm	3.00mm	5.0mm	1.80mm
CFPNA/075	130V	0.75A	0.350R	0.600R	1.50A	40A	5.5/3.75sec	11.40mm	17.80mm	3.00mm	5.0mm	1.80mm
CFPNA/090	130V	0.90A	0.250R	0.450R	1.80A	40A	5.8/4.50sec	12.00mm	18.40mm	3.00mm	5.0mm	2.00mm
CFPNA/110	130V	1.10A	0.180R	0.350R	2.20A	40A	6.3/5.50sec	14.00mm	20.00mm	3.00mm	5.0mm	2.00mm
CFPNA/135	130V	1.35A	0.140R	0.280R	2.70A	40A	7.5/6.75sec	16.00mm	21.50mm	3.00mm	5.0mm	2.00mm
CFPNB/010	130V	0.10A	4.500R	9.500R	0.20A	40A	4.0/0.50sec	7.50mm	13.00mm	2.10mm	5.0mm	1.70mm
CFPNB/015	130V	0.15A	2.400R	4.500R	0.30A	40A	4.0/0.75sec	7.50mm	13.00mm	2.10mm	5.0mm	1.70mm
CFPNB/020	130V	0.20A	1.650R	3.500R	0.40A	40A	4.0/1.00sec	8.00mm	14.00mm	2.10mm	5.0mm	1.70mm
CFPNB/025	130V	0.25A	1.100R	2.500R	0.50A	40A	3.5/1.25sec	8.00mm	14.00mm	2.10mm	5.0mm	1.70mm
CFPNB/030	130V	0.30A	0.750R	1.400R	0.60A	40A	3.0/1.50sec	8.20mm	14.00mm	2.30mm	5.0mm	1.70mm
CFPNB/040	130V	0.40A	0.650R	1.100R	0.80A	40A	3.0/2.00sec	9.30mm	15.30mm	2.30mm	5.0mm	1.70mm
CFPNB/050	130V	0.50A	0.400R	0.900R	1.00A	40A	3.2/2.50sec	10.00mm	16.00mm	2.30mm	5.0mm	1.70mm
CFPNB/065	130V	0.65A	0.350R	0.700R	1.30A	40A	3.8/3.25sec	11.00mm	17.00mm	2.30mm	5.0mm	1.70mm
CFPNB/075	130V	0.75A	0.300R	0.500R	1.50A	40A	4.0/3.75sec	11.00mm	17.00mm	2.30mm	5.0mm	1.70mm
CFPNB/090	130V	0.90A	0.200R	0.380R	1.80A	40A	4.0/4.50sec	12.00mm	18.00mm	2.30mm	5.0mm	1.70mm
CFPNB/110	130V	0.10A	0.180R	0.350R	2.20A	40A	4.8/5.50sec	14.00mm	20.00mm	2.30mm	5.0mm	1.70mm

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# FUSES & FUSEHOLDERS

## 120V PTC Fuses

	V <sub>rms</sub>	I <sub>H</sub>	Ω min	Ω max	I <sub>T</sub>	I <sub>max</sub>	t <sub>T</sub>	A	B	C	D	E
CFPO/005	120V	0.05A	15.00R	25.00R	0.10A	10A	6.5/0.25sec	5.30mm	11.50mm	3.20mm	5.0mm	1.80mm
CFPO/010	120V	0.10A	6.000R	12.00R	0.20A	15A	6.5/0.50sec	5.30mm	11.50mm	3.20mm	5.0mm	1.80mm
CFPO/015	120V	0.15A	3.500R	6.500R	0.30A	15A	5.5/0.75sec	7.55mm	13.80mm	3.20mm	5.0mm	1.80mm
CFPO/017	120V	0.17A	3.000R	6.500R	0.34A	20A	5.2/0.85sec	8.20mm	14.80mm	3.20mm	5.0mm	1.80mm
CFPO/020	120V	0.20A	1.900R	3.300R	0.40A	20A	5.0/1.00sec	8.20mm	14.80mm	3.20mm	5.0mm	1.80mm
CFPO/025	120V	0.25A	1.450R	2.400R	0.50A	30A	4.8/1.25sec	8.20mm	14.80mm	3.20mm	5.0mm	1.80mm
CFPO/030	120V	0.30A	0.900R	1.600R	0.60A	40A	4.5/1.50sec	8.80mm	14.80mm	3.20mm	5.0mm	1.80mm
CFPO/040	120V	0.40A	0.720R	1.320R	0.80A	40A	4.5/2.00sec	9.80mm	15.80mm	3.20mm	5.0mm	1.80mm
CFPO/050	120V	0.50A	0.500R	1.000R	1.00A	40A	5.0/2.50sec	10.30mm	16.30mm	3.30mm	5.0mm	2.00mm
CFPO/065	120V	0.65A	0.450R	0.800R	1.30A	40A	5.2/3.25sec	11.40mm	17.40mm	3.30mm	5.0mm	2.00mm
CFPO/075	120V	0.75A	0.350R	0.600R	1.50A	40A	5.5/3.75sec	11.40mm	17.80mm	3.30mm	5.0mm	2.00mm
CFPO/090	120V	0.90A	0.250R	0.450R	1.80A	40A	5.8/4.50sec	12.40mm	18.40mm	3.30mm	5.0mm	2.00mm
CFPO/110	120V	1.10A	0.180R	0.350R	2.20A	40A	6.3/5.50sec	14.80mm	20.00mm	3.30mm	5.0mm	2.00mm
CFPO/135	120V	1.35A	0.140R	0.280R	2.70A	40A	7.5/6.75sec	16.00mm	21.50mm	3.30mm	5.0mm	2.00mm
CFPO/160	120V	1.60A	0.110R	0.200R	3.20A	40A	8.8/8.00sec	17.80mm	22.80mm	3.70mm	10.0mm	2.20mm
CFPO/185	120V	1.85A	0.095R	0.180R	3.70A	40A	10.1/9.25sec	19.20mm	23.20mm	3.70mm	10.0mm	2.20mm
CFPO/210	120V	2.10A	0.075R	0.150R	4.20A	40A	12.5/10.50sec	22.90mm	24.50mm	3.70mm	10.0mm	2.20mm
CFPO/300	120V	3.00A	0.048R	0.081R	6.00A	40A	14.5/15.00sec	24.00mm	27.30mm	3.70mm	10.0mm	2.20mm
CFPO/400	120V	4.00A	0.038R	0.060R	8.00A	40A	16.0/20.00sec	31.80mm	35.50	3.70mm	10.0mm	2.20mm

## 240V PTC Fuses

	V <sub>rms</sub>	I <sub>H</sub>	Ω min	Ω max	I <sub>T</sub>	I <sub>max</sub>	t <sub>T</sub>	A	B	C	D	E
CFPPA/010	240V	0.1A	6.20R	9.50R	0.20A	3A	5.4/0.50sec	7.60mm	12.00mm	3.60mm	5.0mm	2.20mm
CFPPA/012	240V	0.12A	5.80R	9.00R	0.24A	3A	5.8/0.60sec	7.60mm	12.00mm	3.60mm	5.0mm	2.20mm
CFPPA/015	240V	0.15A	4.00R	7.20R	0.30A	3A	5.8/0.75sec	8.00mm	12.00mm	3.60mm	5.0mm	2.20mm
CFPPA/018	240V	0.18A	3.80R	6.80R	0.36A	4A	5.8/0.90sec	8.40mm	12.40mm	3.60mm	5.0mm	2.20mm
CFPPA/020	240V	0.20A	2.80R	5.60R	0.40A	4A	6.0/1.00sec	8.40mm	12.40mm	5.10mm	5.0mm	2.80mm
CFPPA/025	240V	0.25A	2.50R	5.10R	0.50A	4A	6.0/1.25sec	11.00mm	15.00mm	5.10mm	5.0mm	2.80mm
CFPPA/030	240V	0.30A	1.90R	3.50R	0.60A	5A	6.12/1.50sec	11.00mm	15.00mm	5.10mm	5.0mm	2.80mm
CFPPA/040	240V	0.40A	1.20R	2.20R	0.80A	5A	6.5/2.00sec	12.00mm	16.00mm	5.10mm	5.0mm	2.80mm
CFPPA/050	240V	0.50A	0.65R	1.70R	1.00A	5A	6.8/2.50sec	14.00mm	18.00mm	5.10mm	5.0mm	2.80mm
CFPPA/065	240V	0.65A	0.55R	1.45R	1.30A	5A	7.36/3.25sec	15.50mm	18.80mm	5.10mm	10.0mm	2.80mm
CFPPA/075	240V	0.75A	0.50R	1.35R	1.50A	6A	7.8/3.75sec	15.80mm	18.80mm	5.10mm	10.0mm	3.00mm
CFPPA/090	240V	0.90A	0.35R	0.85R	1.80A	6A	8.4/4.50sec	18.50mm	22.50mm	5.10mm	10.0mm	3.00mm
CFPPA/100	240V	1.00A	0.32R	0.75R	2.00A	8A	9.7/5.00sec	18.50mm	22.50mm	5.10mm	10.0mm	3.00mm
CFPPA/130	240V	1.30A	0.25R	0.58R	2.60A	8A	11.8/6.50sec	23.50mm	26.80mm	5.10mm	10.0mm	3.00mm
CFPPA/170	240V	1.70A	0.18R	0.27R	3.40A	15A	13.8/8.50sec	25.30mm	29.00mm	5.10mm	10.0mm	3.00mm
CFPPA/200	240V	2.00A	0.100R	0.190R	4.00A	15A	18.9/10.00sec	29.50mm	34.00mm	5.10mm	10.0mm	3.00mm
CFPPA/300	240V	3.00A	0.055R	0.115R	6.00A	30A	24.6/15.00sec	36.00mm	40.00mm	5.10mm	10.0mm	3.00mm
CFPPA/380	240V	3.80A	0.04R	0.13R	7.60A	40A	29.1/19.00sec	42.00mm	46.00mm	5.10mm	10.0mm	3.00mm

# FUSES & FUSEHOLDERS

## 250V PTC Fuses

	V <sub>rms</sub>	I <sub>n</sub>	Ω min	Ω max	I <sub>t</sub>	I <sub>trip</sub>	t <sub>T</sub>	A	B	C	D	E
CFPP/010	250V	0.10A	6.000R	12.00R	0.20R	3A	7.0/0.50sec	8.00mm	12.00mm	5.70mm	5.0mm	3.20mm
CFPP/012	250V	0.12A	5.800R	9.000R	0.24R	3A	6.8/0.60sec	8.00mm	12.00mm	5.70mm	5.0mm	3.20mm
CFPP/015	250V	0.15A	4.000R	7.200R	0.30R	3A	6.5/0.75sec	8.00mm	12.00mm	5.70mm	5.0mm	3.20mm
CFPP/018	250V	0.18A	3.800R	6.800R	0.36R	4A	6.2/0.90sec	8.40mm	12.40mm	5.70mm	5.0mm	3.20mm
CFPP/020	250V	0.20A	2.800R	5.600R	0.40R	4A	6.0/1.00sec	8.40mm	12.40mm	5.70mm	5.0mm	3.20mm
CFPP/025	250V	0.25A	2.500R	5.100R	0.50R	4A	6.6/1.25sec	11.00mm	15.00mm	5.70mm	5.0mm	3.20mm
CFPP/030	250V	0.30A	1.900R	3.500R	0.60R	5A	6.8/1.50sec	11.00mm	15.00mm	5.70mm	5.0mm	3.20mm
CFPP/040	250V	0.40A	1.200R	2.200R	0.80R	5A	7.1/2.00sec	12.00mm	16.00mm	5.70mm	5.0mm	3.20mm
CFPP/050	250V	0.50A	0.650R	1.700R	1.00R	5A	7.4/2.50sec	14.00mm	18.00mm	5.70mm	5.0mm	3.20mm
CFPP/065	250V	0.65A	0.550R	1.450R	1.30R	5A	8.0/3.25sec	15.50mm	18.80mm	5.70mm	10.0mm	3.20mm
CFPP/075	250V	0.75A	0.500R	1.350R	1.50R	6A	8.5/3.75sec	15.80mm	18.80mm	5.70mm	10.0mm	3.20mm
CFPP/090	250V	0.90A	0.350R	0.850R	1.80R	6A	9.1/4.50sec	18.50mm	22.50mm	5.70mm	10.0mm	3.20mm
CFPP/100	250V	1.00A	0.320R	0.750R	2.00R	8A	10.5/5.00sec	18.50mm	22.50mm	5.70mm	10.0mm	3.20mm
CFPP/130	250V	1.30A	0.220R	0.580R	2.60R	8A	12.8/6.50sec	23.50mm	26.80mm	5.70mm	10.0mm	3.20mm
CFPP/170	250V	1.70A	0.180R	0.360R	3.40R	15A	15.0/8.50sec	25.30mm	29.00mm	5.70mm	10.0mm	3.70mm
CFPP/200	250V	2.00A	0.100R	0.190R	4.00R	15A	20.5/10.00sec	29.50mm	34.00mm	5.70mm	10.0mm	3.70mm
CFPP/300	250V	3.00A	0.060R	0.125R	6.00R	30A	26.7/15.00sec	36.00mm	40.00mm	5.70mm	10.0mm	3.70mm
CFPP/380	250V	3.80A	0.040R	0.130R	7.60R	40A	32.3/19.00sec	42.00mm	46.00mm	5.70mm	10.0mm	3.70mm

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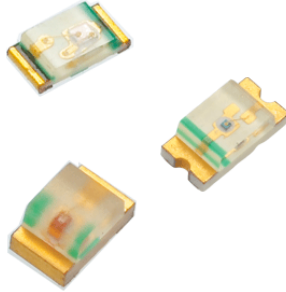
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# LEDs & INDICATORS

## Surface Mount LEDs

- Surface mount LEDs in packages conforming to EIA standards
- 0603, 0805 & 1206 sizes compatible with automated placement equipment
- IR and vapour phase reflow solder compatible
- Supplied on 8mm tape or 7 inch reel



### SPECIFICATION

Viewing angle	130°
Max Forward Current $I_f$	30mA (blue 20mA)
Max Reverse Voltage $V_R$	5V
Lens	Clear

Full datasheets available on request

### 0603 / 0605 Casing

SPECIFICATION	COLOUR	dominant wave length/ Cie Coordinates ( $\lambda_d$ /CIE)	LUMINOUS INTENSITY (Iv) TYP	MAX FORWARD VOLTAGE (V <sub>f</sub> ) TYP
CL0603RC	Red	639nm	45.0mcd*	2.4V
CL0603AC	Amber	602nm	6.0mcd	2.1V
CL0603YC	Yellow	587nm	80.0mcd	2.0V
CL0603GC	Green	569nm	12.0mcd	2.1V
CL0603BC	Blue	467nm	30.0mcd	3.4V
CL0603WC	White	0.294, 0.286	112.0mcd*	3.15V*
CL0605RGC	Red	631nm	25.0mcd	2.0V
	Green	571nm	35.0mcd	2.0V

### 0805 Casing

SPECIFICATION	COLOUR	dominant wave length/ Cie Coordinates ( $\lambda_d$ /CIE)	LUMINOUS INTENSITY (Iv)	MAX FORWARD VOLTAGE (V <sub>f</sub> )
CL0805RC	Red	631nm	54.0mcd	2.0V
CL0805AC	Amber	602nm	4.5mcd	2.1V
CL0805YC	Yellow	588nm	6.0mcd	2.1V
CL0805GC	Green	569nm	6.0mcd	2.1V
CL0805BC	Blue	475nm*	112.0mcd*	3.8V*
CL0805WC	White	0.25, 0.22	450mcd	3.8V

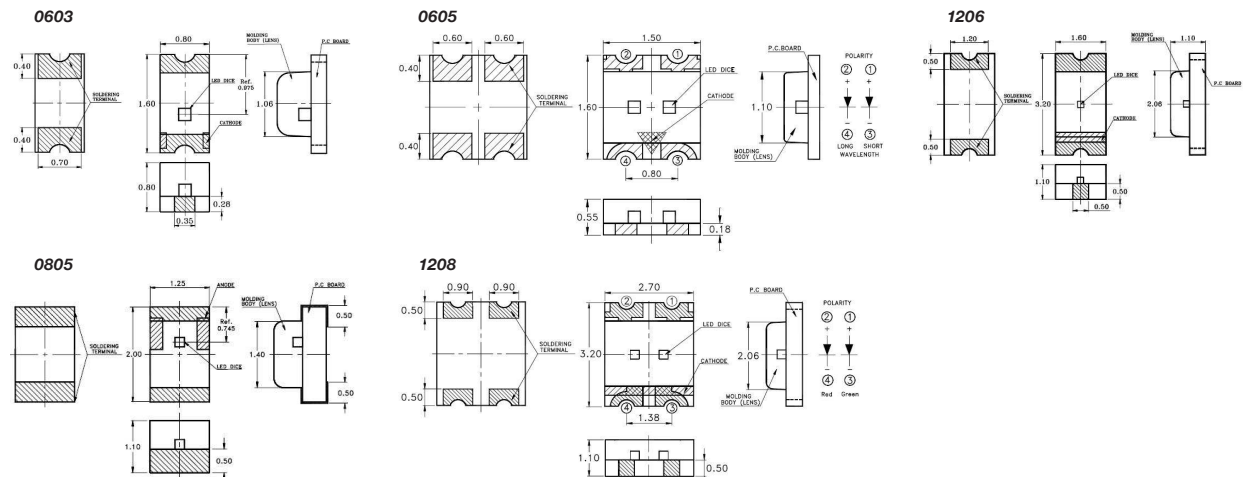
### 1206 Casing

SPECIFICATION	COLOUR	dominant wave length/ Cie Coordinates ( $\lambda_d$ /CIE)	LUMINOUS INTENSITY (Iv)	MAX FORWARD VOLTAGE (V <sub>f</sub> )
CL1206RC	Red	631nm	54.0mcd	2.0V
CL1206AC	Amber	602nm	6.0mcd	2.1V
CL1206YC	Yellow	588nm	6.0mcd	2.1V
CL1206GC	Green	569nm	6.0mcd	2.1V
CL1206WC	White	0.294, 0.286	112mcd*	3.15V*
CL1208RGC	Red	631nm	45.0mcd*	2.0V
	Green	571nm	35.0mcd*	2.0V

$I_v$  = typical luminous intensity at 20mA

\* Denotes the maximum figure

Chromaticity coordinates (X,Y) derived from 1931 CIE chromaticity diagram



# LEDs & INDICATORS

## 3mm LEDs

- High efficiency LEDs in a standard 3mm (T1) package
- Diffused lens option for indicator applications
- Clear lens options for higher brightness illumination applications
- Bi-coloured red-green option has matched chips for uniform light output



### SPECIFICATION

Max Forward Current $I_f$	30mA (Yellow/Amber 20mA)
Max Reverse Voltage $V_r$	5V
Lens	Clear & Diffused

Full datasheets available on request

## Diffused

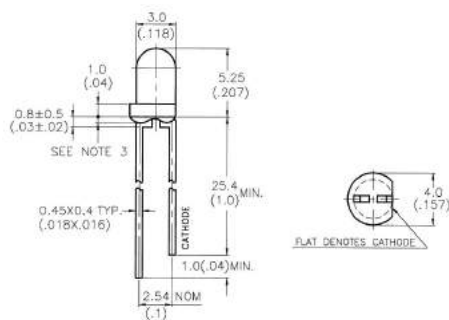
SPECIFICATION	COLOUR	LENS	dominant wave length/ Cie Coordinates ( $\lambda_d$ /CIE)	LUMINOUS INTENSITY (lv)	MAX FORWARD VOLTAGE (V)	VIEWING ANGLE
CL3S1RD	Red	Diffused	638nm	60mcd	2.4V	60°
CL3S1AD	Amber	Diffused	602nm	12.6mcd*	2.6V	60°
CL3S1YD	Yellow	Diffused	587nm	8.7mcd*	2.6V	40°
CL3S1GD	Green	Diffused	569nm	12.6mcd*	2.1V	40°
CL3S1BD	Blue	Diffused	428nm	18mcd	3.8V	60°
CL3S1RGD	Red	Diffused	638nm	110mcd	2.4V	45°
	Green	Diffused	575nm	110mcd	2.4V	45°

## High Brightness

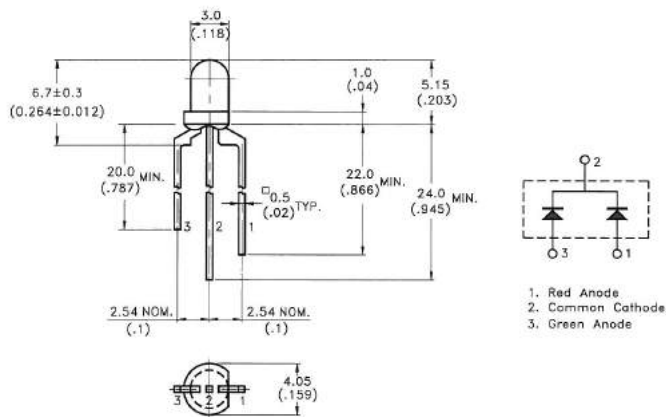
SPECIFICATION	COLOUR	LENS	dominant wave length/ Cie Coordinates ( $\lambda_d$ /CIE)	LUMINOUS INTENSITY (lv)	MAX FORWARD VOLTAGE (V)	VIEWING ANGLE
CL3H1RC	Red	Clear	624nm	880mcd	2.4V	22°
CL3H1AC	Amber/Yellow	Clear	592nm	320mcd	2.05V	45°
CL3H1GC	Green	Clear	569nm	40mcd*	2.1V	45°
CL3H1BC	Blue	Clear	470nm	680mcd	3.5V	30°
CL3H1WC	White	Clear	0.30, 0.30	2600mcd	3.6V	25°

$I_v$  = typical luminous intensity at 20mA, except 10mA where indicated by \*  
Chromaticity coordinates (X,Y) derived from 1931 CIE chromaticity diagram

### 3mm standard



### 3mm bicolour



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# LEDs & INDICATORS

## 5mm LEDs

- High efficiency LEDs in a standard 5mm (T1¼) package
- Diffused lens option for indicator applications
- Clear lens options for higher brightness illumination applications
- Bi-coloured red-green option has common cathode



### SPECIFICATION

Max Forward Current $I_f$	20-50mA
Max Reverse Voltage $V_R$	5V (red 4V)
Lens	Clear & Diffused
Full datasheets available on request	

## Diffused / Transparent

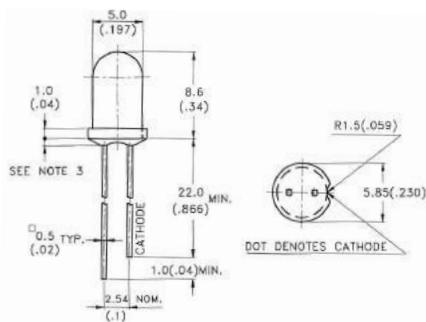
SPECIFICATION	COLOUR	LENS	dominant wave length/ Cie Coordinates ( $\lambda_d$ /CIE)	LUMINOUS INTENSITY (Iv)	MAX FORWARD VOLTAGE (Vf)	MAX FORWARD CURRENT (If)	VIEWING ANGLE
CL5S1RD	Red	Diffused	638nm	135mcd	1.8V	40mA	40°
CL5S1AD	Amber	Transparent	602nm	40mcd*	2.6V	20mA	40°
CL5S1YD	Yellow	Diffused	585nm	19mcd*	2.1V	20mA	36°
CL5S1GD	Green	Diffused	569nm	19mcd*	2.1V	30mA	36°
CL5S1RGD	Red	Diffused	657nm	5.6mcd*	2.1V	30mA	30°
	Green	Diffused	569nm	1.9mcd*	2.1V	30mA	30°

## High Brightness

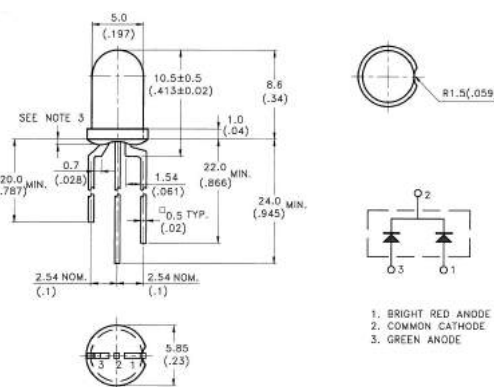
SPECIFICATION	COLOUR	LENS	dominant wave length/ Cie Coordinates ( $\lambda_d$ /CIE)	LUMINOUS INTENSITY (Iv)	MAX FORWARD VOLTAGE (Vf)	MAX FORWARD CURRENT (If)	VIEWING ANGLE
CL5H1RC	Red	Clear	631nm	1150mcd	1.9V	30mA	30°
CL5H1AC	Amber	Clear	592nm	7800mcd	2.0V	50mA	8°
CL5H1YC	Yellow	Clear	587nm	1700mcd	2.05V	30mA	15°
CL5H1GC	Green	Clear	571nm	960mcd	2.1V	30mA	22°
CL5H1BC	Blue	Clear	470nm	1900mcd	3.5V	30mA	15°
CL5H1WC	White	Clear	0.30, 0.30	13000mcd	3.8V	30mA	15°

$I_v$  = typical luminous intensity at 20mA, except 10mA where indicated by \*  
Chromaticity coordinates (X,Y) derived from 1931 CIE chromaticity diagram

5mm standard



5mm bicolour



# LEDs & INDICATORS

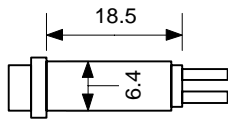
## 501 SM Series

- Press fit body for various panel thicknesses, panel cut-out 8mm diameter
- Stripped 10mm wire termination 162mm long as standard
- Neons 125-240V 0.8-1mA, as standard
- Pin termination to order
- LED, Filament 6-28V 30-40mA to order
- Pin termination available on low voltage LED and filament, lenses 1-3
- Polycarbonate lens/body
- Maximum working temperature 105°C
- Red, green, amber lens colour options as standard
- Other lens colour options to order
- Three round lens styles options as standard and one square style to order
- Custom wire lengths and specification to order

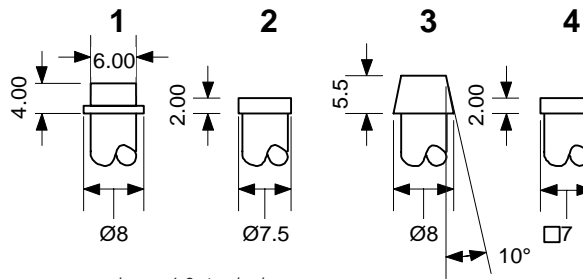


TYPE NO.	501	X	XX	-XXXX	-T/	XXX
501 Series Indicator	501					
Lens cylinder top-hat	1					
Lens cylinder low profile	2					
Lens cylinder tapered sides	3					
Lens square low profile	4					
Stripped wire 162mm long	05					
Pin termination	13					
LED, white cathode & black anode wires	LED					
Filament 6V 40mA, white wire	640					
Filament 14V 40mA, yellow wire	1440					
Filament 24V 35mA, green wire	24					
Filament 28V 30mA, green wire	28					
Neon 125V 1mA, blue wire	125					
Neon 240V 0.8mA, red wire	240					
Transparent lens	T					
Lens colour Red	RED					
Lens colour Green	GRN					
Lens colour Amber	AMB					

Body Dimensions



Lens Options



lenses 1-3 standard

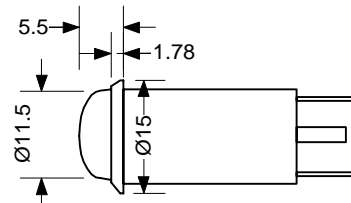
## 504 05 Series

- Snap fit body for panel thicknesses 0.5-3.5mm, panel cut-out 13mm diameter
- 6.3mm quick-connect terminals as standard
- Stripped 6mm wire termination 162mm long to order
- Neons 125-240V 0.8-1mA, as standard
- LED and Filament 6-48V 25-40mA, to order
- Polycarbonate lens/body and brushed chrome bezel
- Maximum working temperature 105°C
- Red, green, amber lens colour options as standard
- Other lens colour options to order
- Custom wire lengths and specification to order



TYPE NO.	504	2	XX	-XXXX	-T/	XXX
504 Series Indicator	504					
Lens Type	2					
6.3mm quick-connect terminal	03					
Stripped wire 162mm long	05					
LED, white cathode & black anode wires	LED					
Filament 6V 40mA, white wire	640					
Filament 12V 40mA, yellow wire	1240					
Filament 14V 40mA, yellow wire	1440					
Filament 24V 35mA, green wire	24					
Filament 28V 30mA, green wire	28					
Filament 48V 25mA, green wire	48					
Neon 125V 1mA, blue wire	125					
Neon 240V 0.8mA, red wire	240					
Transparent lens	T					
Lens colour Red	RED					
Lens colour Green	GRN					
Lens colour Amber	AMB					

Dimensions



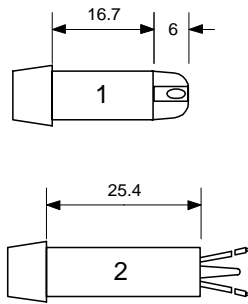
# LEDs & INDICATORS

## 503 A Series



- Press fit body for various panel thicknesses, panel cut-out 8mm diameter
- Stripped 10mm wire termination 280mm long and solder tags options as standard
- LED, Filament 6-28V 30-40mA and Neons 125-240V 0.8-1mA, as standard
- Neon-replacement LED version is fitted with resistor and operates at 240V AC. Operating life 50,000 hours
- Polycarbonate lens/body and brushed chrome bezel
- Body 25.4mm (1") long as standard, 16.7mm to order
- Maximum working temperature 105°C
- Red, green, amber lens colour options as standard
- Other lens colour options to order
- Two cylinder lens styles as standard, 6 other lens style options to order
- Custom wire lengths and specification to order
- Removable collar fits to rear of panel for improved retention

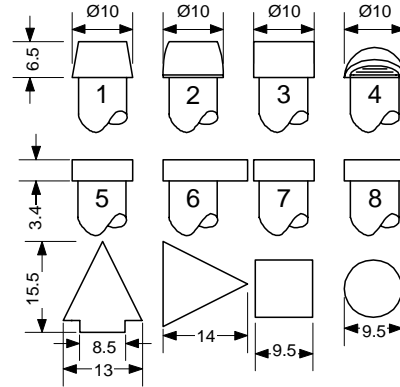
Body Dimensions



Body 1 standard

TYPE NO.	503	X	XX	XXXX	- T / XXX
503 Series Indicator	503				
Lens cylinder tapered sides	1				
Lens cylinder curved sides	2				
Lens cylinder straight sides	3				
Lens domed	4				
Lens arrow	5				
Lens triangle	6				
Lens square	7				
Lens circle	8				
Stripped wire 280mm long	05				
Solder tag termination	11				
LED, white cathode & black anode wires	LED				
LED, neon-replacement, 240V 1mA	LED2				
Filament 6V 40mA, white wire	640				
Filament 14V 40mA, yellow wire	1440				
Filament 24V 35mA, green wire	24				
Filament 28V 30mA, green wire	28				
Neon 125V 1mA, blue wire	125				
Neon 240V 0.8mA, red wire	240				
Transparent lens	T				
Lens colour Red	RED				
Lens colour Green	GRN				
Lens colour Amber	AMB				

Lens Options



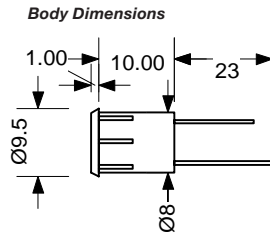
lenses 1-2 standard



# LEDs & INDICATORS

## 514 23-LED Series

- Press-fit body for various panel thickness, panel cut-out 8.0mm diameter
- LED pin termination, anode pin cut short
- Polycarbonate body/bezel and lens
- Red, green, amber, and blue lens colour options as standard
- Maximum working temperature 105°C



TYPE NO.	514	1	13 - LED	- T /	XXX
515 Series Indicator	514				
Lens Type	1				
Pin termination	13				
LED, anode pin cut short	LED				
Transparent lens	T				
Lens colour Red	RED				
Lens colour Green	GRN				
Lens colour Amber	AMB				
Lens colour Blue	BLU				

PCB  
TERMINAL  
BLOCKS

INTER-  
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FUSES &  
FUSE-  
HOLDERS

LEDs &  
INDICATORS

MINIATURE  
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LIMIT &  
SAFETY  
SWITCHES

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SUPPORTS

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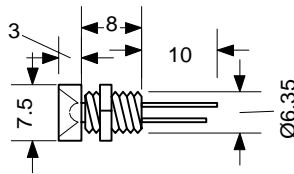
# LEDs & INDICATORS

## 512 33-LED Series

- Threaded body for panel thicknesses 0.5-3.5mm, panel cut-out 6.5mm diameter
- 3.2mm LED with pin termination, anode pin cut short
- Chrome plated brass body/ bezel, supplied with nut and shakeproof washer
- Red, green, amber, and blue lens colour options as standard
- Maximum working temperature 80°C



Body Dimensions



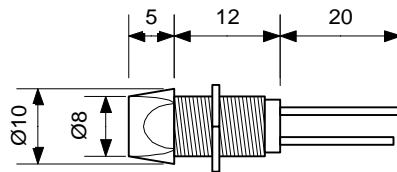
TYPE NO.	512	1	13 - LED	- T /	XXX
515 Series Indicator	512				
Lens Type	1				
Pin termination	13				
LED, anode pin cut short	LED				
Transparent lens	T				
Lens colour Red	RED				
Lens colour Green	GRN				
Lens colour Amber	AMB				
Lens colour Blue	BLU				

## 513 34-LED Series

- Threaded body for panel thicknesses 0.5-3.5mm, panel cut-out 8.0mm diameter
- 5.0mm LED with pin termination, anode pin cut short
- Chrome plated brass body/ bezel, supplied with nut and spring washer
- Red, green, amber, and blue lens colour options as standard
- Maximum working temperature 80°C



Body Dimensions



TYPE NO.	513	1	13 - LED	- T /	XXX
515 Series Indicator	513				
Lens Type	1				
Pin termination	13				
LED, anode pin cut short	LED				
Transparent lens	T				
Lens colour Red	RED				
Lens colour Green	GRN				
Lens colour Amber	AMB				
Lens colour Blue	BLU				

# LEDs & INDICATORS

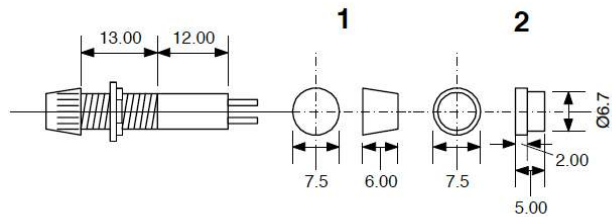
## 515 MPA Series

- Threaded body for panel thicknesses 0.5-3.5mm, panel cut-out 6.4mm diameter
- Stripped wire termination 164mm long, PVC
- LED, Filament 6-28V 30-40mA and Neons 125-240V 0.8-1mA, as standard
- Neon-replacement LED version is fitted with a resistor and operates at 240V AC. Operating life 50,000 hours
- Polycarbonate lens/body, chrome bezel, supplied with nut and shakeproof washer
- Red, green, amber, clear, blue and opal lens colour options as standard
- Maximum working temperature 105°C
- Custom wire lengths and specification to order



	TYPE NO.	515	1	05 - XXXX - T / XXX
515 Series Indicator	515			
Lens Type	Trapezoid	1		
	Top Hat	2		
Stripped wire 164mm long		05		
LED pins		13		
LED, black cathode & white anode wires		LED		
LED, neon-replacement 240V 1mA		LED2		
Filament 6V 40mA, white wire		640		
Filament 12V 35mA, yellow wire		1235		
Filament 14V 40mA, yellow wire		1440		
Filament 24V 35mA, green wire		24		
Filament 28V 30mA, green wire		28		
Neon 125V 1mA, blue wire		125		
Neon 240V 0.8mA, red wire		240		
Transparent lens		T		
Lens colour Red		RED		
Lens colour Green		GRN		
Lens colour Amber		AMB		
Lens colour Clear		CLR		
Lens colour Blue		BLU		
Lens colour Opal		OPL		

Body Dimensions



PCB  
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# LEDs & INDICATORS

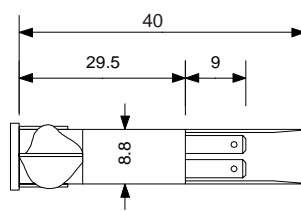
## 517 Series

- Snap fit body for panel thicknesses 0.5-3.5mm, panel cut-out 9mm diameter
- Stripped 6mm wire termination 155mm long, PVC
- Neons 125-240V 0.8-1mA, as standard
- LED and Filament 6-28V 30-40mA, to order
- Polycarbonate lens and body
- Maximum working temperature 105°C
- Red, green, amber lens colour options as standard, clear to order
- Other lens colour options to order
- Six different shape and size lens style options
- Custom wire lengths and specification to order

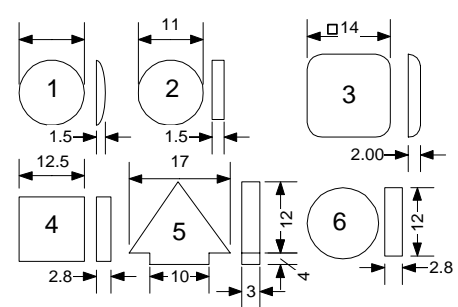


TYPE NO.	517	X	XX-XXXX	- T /	XXX
517 Series Indicator	517				
Lens 11mm circle domed	1				
Lens 11mm circle flat	2				
Lens 14mm square rounded	3				
Lens 12.5mm square	4				
Lens arrow	5				
Lens 12mm circle flat	6				
Stripped wire 155mm long	05				
LED, white cathode & black anode wires	LED				
Filament 6V 40mA, white wire	640				
Filament 14V 40mA, yellow wire	1440				
Filament 24V 35mA, green wire	24				
Filament 28V 30mA, green wire	28				
Neon 125V 1mA, blue wire	125				
Neon 240V 0.8mA, red wire	240				
Transparent lens	T				
Lens colour Red	RED				
Lens colour Green	GRN				
Lens colour Amber	AMB				
Lens colour Clear	CLR				

Body Dimensions



Lens Options

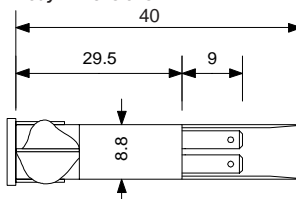


## 518 Series

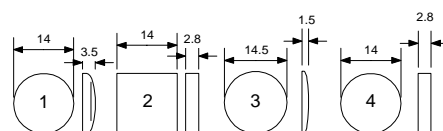


TYPE NO.	518	X	XX-XXXX	- T /	XXX
518 Series Indicator	518				
Lens 14mm circle domed	1				
Lens 14mm square flat	2				
Lens 14.5mm thin circle domed	3				
Lens 11mm circle flat	4				
Stripped wire 155mm long	05				
LED, white cathode & black anode wires	LED				
Filament 6V 40mA, white wire	640				
Filament 14V 40mA, yellow wire	1440				
Filament 24V 35mA, green wire	24				
Filament 28V 30mA, green wire	28				
Neon 125V 1mA, blue wire	125				
Neon 240V 0.8mA, red wire	240				
Transparent lens	T				
Lens colour Red	RED				
Lens colour Green	GRN				
Lens colour Amber	AMB				
Lens colour Clear	CLR				

Body Dimensions



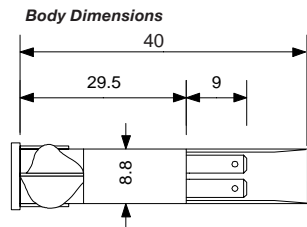
Lens Options



# LEDs & INDICATORS

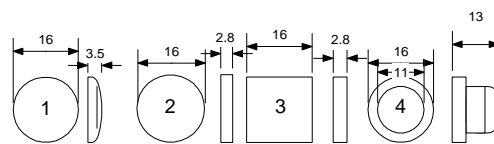
## 519 Series

- Snap fit body for panel thicknesses 0.5-3.5mm, panel cut-out 14mm diameter
- Stripped 6mm wire termination 155mm long, PVC
- Neons 125-240V 0.8-1mA, as standard
- LED and Filament 6-28V 30-40mA, to order
- Polycarbonate lens and body
- Maximum working temperature 105°C
- Red, green, amber lens colour options as standard, clear to order
- Other lens colour options to order
- Circle domed lens as standard, three other lens styles to order
- Custom wire lengths and specification to order



TYPE NO.	519	X	XX-XXXX	- T /	XXX
519 Series Indicator	519				
Lens 16mm circle domed	1				
Lens 16mm circle flat	2				
Lens 16mm square flat	3				
Lens 16/11mm mushroom	4				
Stripped wire 155mm long	05				
LED, white cathode & black anode wires	LED				
Filament 6V 40mA, white wire	640				
Filament 14V 40mA, yellow wire	1440				
Filament 24V 35mA, green wire	24				
Filament 28V 30mA, green wire	28				
Neon 125V 1mA, blue wire	125				
Neon 240V 0.8mA, red wire	240				
Transparent lens	T				
Lens colour Red	RED				
Lens colour Green	GRN				
Lens colour Amber	AMB				
Lens colour Clear	CLR				

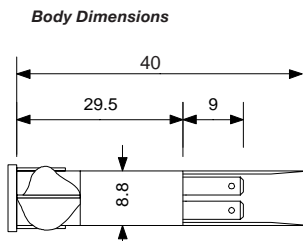
### Lens Options



Lens 1 as standard

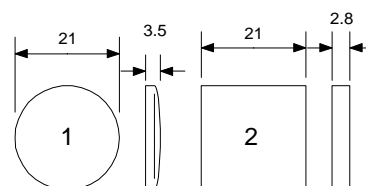
## 521 Series

- Snap fit body for panel thicknesses 0.5-3.5mm, panel cut-out 19mm diameter
- Stripped 6mm wire termination 155mm long, PVC
- Neons 125-240V 0.8-1mA, as standard
- LED and Filament 6-28V 30-40mA, to order
- Polycarbonate lens and body
- Maximum working temperature 105°C
- Red, green, amber lens colour options as standard, clear to order
- Other lens colour options to order
- Two 21mm circle and square lens style options
- Custom wire lengths and specification to order



TYPE NO.	521	X	XX-XXXX	- T /	XXX
521 Series Indicator	521				
Lens 21mm circle domed	1				
Lens 21mm square flat	2				
Stripped wire 155mm long	05				
LED, white cathode & black anode wires	LED				
Filament 6V 40mA, white wire	640				
Filament 14V 40mA, yellow wire	1440				
Filament 24V 35mA, green wire	24				
Filament 28V 30mA, green wire	28				
Neon 125V 1mA, blue wire	125				
Neon 240V 0.8mA, red wire	240				
Transparent lens	T				
Lens colour Red	RED				
Lens colour Green	GRN				
Lens colour Amber	AMB				
Lens colour Clear	CLR				

### Lens Options



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# LEDs & INDICATORS

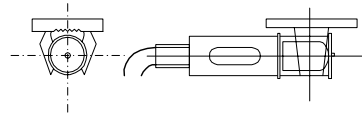
## 580 Series

- Open ended body with 90° snap on lens
- Stripped 6mm wire termination 200mm long, PVC
- Neons 240V 0.8mA as standard, 125V 1mA to order
- Polysulphone body and lens
- Red, green, amber and clear lens colour options as standard
- Maximum working temperature 105°C
- Custom wire lengths and specification to order

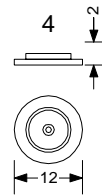


TYPE NO.	501	X	XX-XXXX	- T /
580 Series Indicator	580			
Lens Type	1			
Stripped wire 200mm long	05			
Neon 125V 1mA, blue wire	125			
Neon 240V 0.8mA, red wire	240			
Transparent lens	T			
Lens colour Red	RED			
Lens colour Green	GRN			
Lens colour Amber	AMB			
Lens colour Clear	CLR			

Body Profile




Lens Options



# MINIATURE SWITCHES

## V3 Type Microswitches 5A, 10A & 15A

- Rating 5A, 10A & 15A switching S.P.D.T. (15A to order)
- Coil spring mechanism
- 6.3mm (.250), 4.8mm (.187) quick connect solder & screw terminals
- Button, lever or roller actuator
-  vs approved

CSM3



### SPECIFICATION

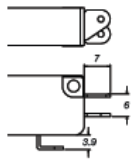
Rating	CSM31000	10A/250VAC
	CSM30500	5A/250VAC
Contact resistance	30mΩ max	
Insulation strength	100MΩ min/500VAC	
Electrical Life	50,000 operations min	
Temperature range	-10°C to +105°C	
Material	Case	PBT
	Button	Bakelite
	Actuator	Stainless steel
	Contacts	AgNi10-Cu
		Silver Plated Brass

Terminal	10A	6.3mm quick connect as standard
	5A	4.8mm quick connect as standard

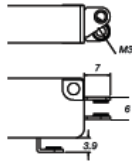
15A	10A	5A	ACTUATOR STYLE	OPERATING FORCE MAX	RELEASE FORCE MAX	OPERATING POSITION	PRE TRAVEL MAX	MOVEMENT DIFFERENTIAL	OVER TRAVEL MIN
CSM31500-	CSM31000-	CSM30500-	Button	3N	0.7N	14.9 ± 0.4mm	1.4mm	0.4mm	1mm
CSM31510-	CSM31010-	CSM30510-	Short Lever	3N	0.7N	15.8 ± 0.5mm	1.4mm	0.5mm	1mm
CSM31520-	CSM31020-	CSM30520-	Standard Lever	0.7N	0.15N	16.3 ± 1.2mm	4mm	1mm	2mm
CSM31530-	CSM31030-	CSM30530-	Long Lever	0.25N	0.05N	17.2 ± 2.5mm	8mm	2mm	4mm
CSM31531-	-	CSM30531-	Long Wide Lever	0.25N	0.07N	17.2 ± 2.5mm	8mm	2mm	4mm
CSM31540-	CSM31040-	CSM30540-	Simulated Roller	1.05N	0.2N	19.5 ± 1.2mm	4mm	1mm	2mm
CSM31550-	CSM31050-	CSM30550-	Standard Roller	3.2N	0.6N	21.4 ± 0.6mm	1.4mm	0.4mm	1mm
CSM31560	CSM31060-	CSM30560-	Long Arm Roller	0.8N	0.15N	21.4 ± 1.2mm	4mm	1mm	2mm

### Types of Terminal:

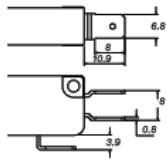
Suffix A = Solder



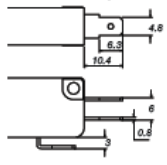
Suffix B = Screws



Suffix C = 6.3 quick connect

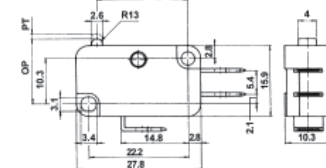


Suffix D = 4.8 quick connect

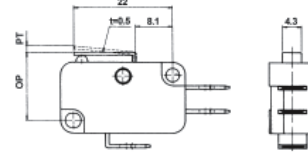


### Types of Actuator:

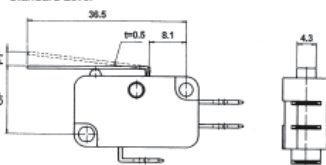
Button



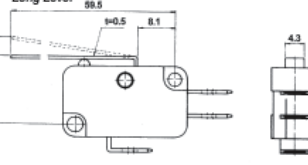
Short Lever



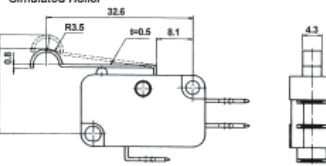
Standard Lever



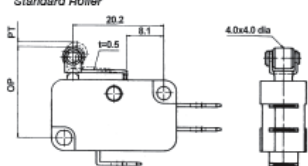
Long Lever



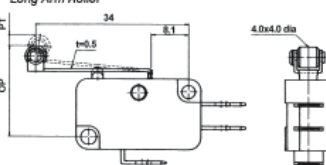
Simulated Roller



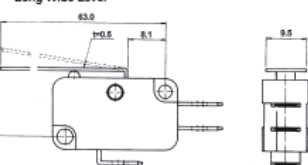
Standard Roller



Long Arm Roller




Long Wide Lever



CSM310 Series replaces CMMS4 Series, example CSM31000C replaces CMMS4000C  
CSM305 Series replaces CMNS2 Series, example CSM30520D replaces CMNS2020D

# MINIATURE SWITCHES

## V4 Type Sub Miniature Microswitches 5A

- Rating 5A switching S.P.D.T. (10A to order)
- Long life coil spring mechanism
- Solder, PCB, 90° PCB mounting or 2.8mm quick connect terminals
- Button, lever or roller actuators
- Anti Solder Wicking
-  approved

CSM405



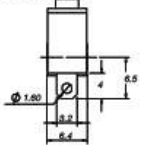
### SPECIFICATION

Rating	5A/250VAC (10A to order)	
Contact resistance	50mΩ max	
Insulation strength	100MΩ min/500VDC	
Electrical Life	50,000 operations min	
Temperature range	-10°C to +125°C	
Material	Case	PBT
	Button	PPS
	Actuator	Stainless steel
	Contacts	AgNi10
Terminals	Brass alloy H65 Silver Plated	

	ACTUATOR STYLE	OPERATING FORCE MAX	RELEASE FORCE MAX	OPERATING POSITION	PRE TRAVEL MAX	MOVEMENT DIFFERENTIAL	OVER TRAVEL MIN
CSM40500-	Button	1.5N	0.3N	8.6 ± 0.4mm	0.8mm	0.2mm	0.5mm
CSM40510-	Short Lever	0.25N	0.04N	8.9 ± 1mm	4.6mm	0.8mm	0.8mm
CSM40511-	Short Upturned Lever						
CSM40520-	Standard Lever	0.25N	0.06N	8.9 ± 1mm	5mm	0.8mm	1.2mm
CSM40530-	Long Lever	0.2N	0.03N	9.6 ± 2mm	7.5mm	1.5mm	1.6mm
CSM40540-	Simulated Roller	0.25N	0.04N	12 ± 1.2mm	4.7mm	0.8mm	1.2mm
CSM40550-	Standard Roller	0.25N	0.04N	15.2 ± 1mm	4.8mm	0.9mm	1.2mm
CSM40570-	Wave Lever						
CSM40580-	Extra Long Lever	0.1N	0.02N	9.8 ± 1.5mm	8mm	2.5mm	1.5mm
CSM40581-	Extra Long Stepped Lever						

### Types of Terminal:

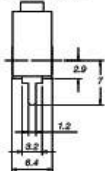
Suffix A = Solder



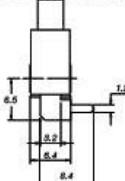
Suffix E = 2.8 quick connect



Suffix F = POB mount

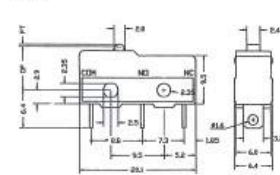


Suffix G = 90° POB mount

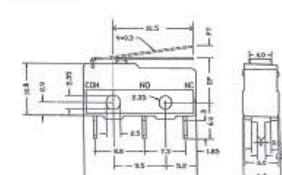


### Types of Actuator:

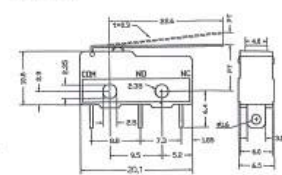
Button



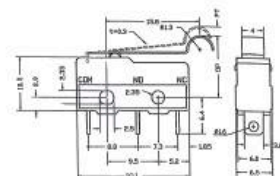
Short Lever



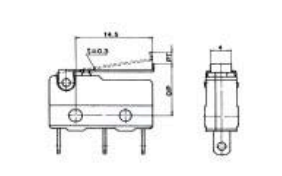
Long Lever



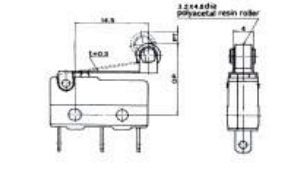
Simulated Roller



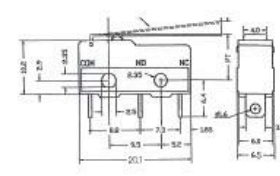
Short Upturned Lever



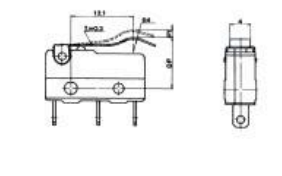
Standard Roller



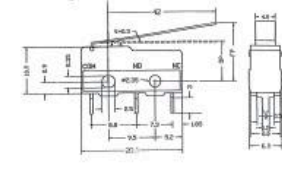
Standard Lever



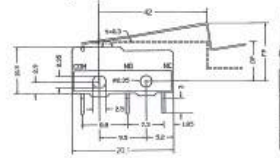
Wave Lever



Extra Long Lever



Extra Long Stepped Lever



CSM405 Series Replaces CSM35 Series  
 CSM405 Series Terminal Suffix E, F, G Replaces CSM35 Series Terminal Suffix B, C, D respectively  
 CSM405 Series Lever Options 30, 40, 11, 20, 41, 81 Replaces CSM35 Series Lever Options 20, 30, 40, 60, 70, 90  
 Example CSM40530E replaces CSM3520B  
 Example CSM40511G replaces CSM3540D  
 Example CSM40541F replaces CSM3570C  
 Example CSM40540E replaces CSM3530C  
 Example CSM40520E replaces CSM3560B  
 Example CSM40581G replaces CSM3590D

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# MINIATURE SWITCHES

## Ultra Miniature Microswitches

- Rating 3A switching S.P.D.T.
- Space saving

CSMU01



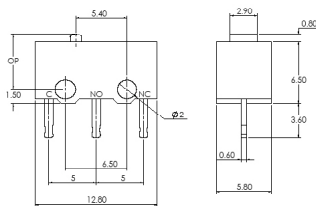
### SPECIFICATION

Rating	3A/125VAC	
Contact resistance	50mΩ max	
Insulation strength	100MΩ min/500VDC	
Electrical Life	10,000 operations min	
Temperature range	-10°C to +85°C	
Material	Case	PBT
	Button	PBT
	Actuator	Stainless steel
	Contacts	AgNi10
Terminals	Brass alloy H65 Silver Plated	

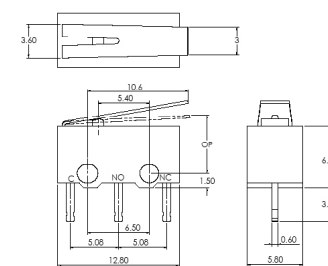
	ACTUATOR STYLE	OPERATING FORCE MAX	RELEASE FORCE MAX	OPERATING POSITION	PRE TRAVEL MAX	MOVEMENT DIFFERENTIAL	OVER TRAVEL MIN
CSMU0100	Button	1.5N	0.08N	5.5 ± 0.3mm		0.2mm	0.2mm
CSMU0101	Tapered Lever	0.23N	0.03N	6.2 ± 0.8mm		0.7mm	0.7mm
CSMU0106	Parallel Lever	0.23N	0.03N	7 ± 1.2mm		0.7mm	0.7mm
CSMU0140	Simulated Roller	0.4N	0.05N	8.2 ± 1.5mm	4.2mm	0.9mm	0.9mm

### Types of Actuator:

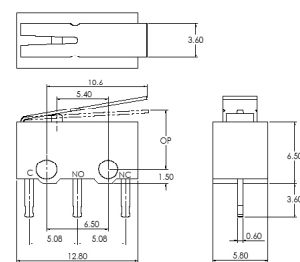
#### Button



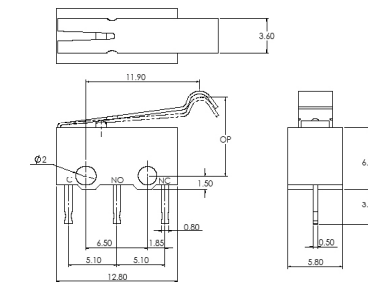
#### Tapered Lever



#### Parallel Lever



#### Simulated Roller



CSMU01 Series Replaces CSSM Series  
 Example CSMU0100 replaces CSSM100  
 Example CSMU0140 replaces CSSM030C

# MINIATURE SWITCHES

## 3.5x6mm Tact Switches

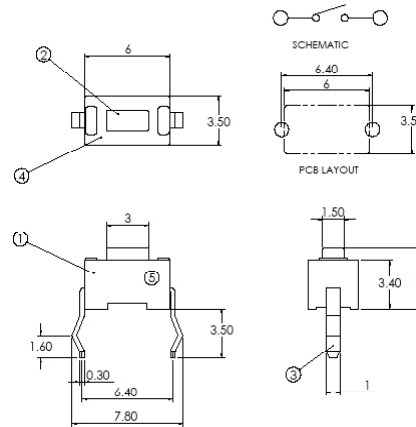
- Compact design
- Advanced switch technology
- Positive tactile action
- Tamper proof application
- Flow solder wash-away cleaning
- Through-hole PCB and surface mount terminals
- Can be supplied taped for auto-insertion, add suffix /T

SPECIFICATION		
Rating	50mA/12VDC	
Contact resistance	100mΩ max	
Insulation strength	100MΩ min/500VDC	
Electrical life	50,000 operations min	
Temperature range	-10°C to +60°C	
Operating force	180 ± 100g	
Material	Case	Nylon
	Button	Nylon
	Contacts	Stainless Steel Silver Plated
Terminals	Brass Silver Plated	

### Through-hole PCB Terminals

TYPE NO.	BUTTON HEIGHT
CST35643T	4.3mm
CST35605T	5.0mm

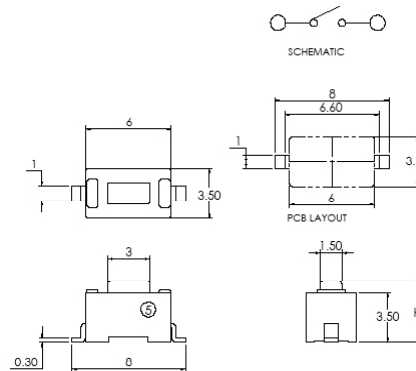
CST356T



### Surface Mount Terminals

TYPE NO.	BUTTON HEIGHT
CST35643S	4.3mm
CST35605S	5.0mm

CST356S



CST356 Series Replaces CB00.5 Series  
 Example CST35643T replaces CB00.5-1F  
 Example CST35605S replaces CB00.5-5HS

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# MINIATURE SWITCHES

## 6x6mm Tact Switches

- Advanced switch technology
- Positive tactile action
- Tamper proof application
- Flow solder wash-away cleaning
- Through-hole PCB, surface mount & horizontal terminals
- Square & round button styles
- Other button heights available
- Can be supplied taped for auto-insertion, add suffix /T

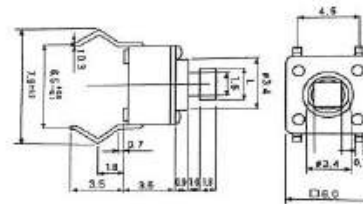
### SPECIFICATION

Rating	50mA/12VDC	
Contact resistance	100mΩ max	
Insulation strength	100MΩ min/500VDC	
Electrical life	CST06S00T	30,000 operations min
	CST06S00S	30,000 operations min
	CST06S00H	100,000 operations min
Temperature range	-10°C to +60°C	
Operating force	160 ± 70g	
Material	Case	Nylon
	Button	Nylon
	Contacts	Phosphor Bronze Silver Plated
Terminals	Brass Silver Plated	

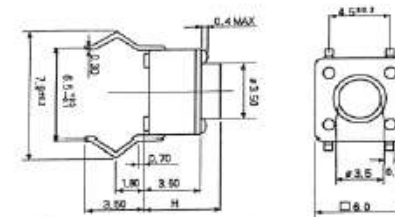
### Through-hole PCB Terminals

TYPE NO.	BUTTON HEIGHT	BUTTON SIZE
CST06S0AT	7.4mm	2.4 x 2.4mm
CST06S43T	4.3mm	ø3.4mm
CST06S05T	5mm	ø3.4mm
CST06S73T	7.3mm	ø3.4mm
CST06S08T	8mm	ø3.4mm
CST06S95T	9.5mm	ø3.4mm
CST06S13T	13mm	ø3.4mm

CST06S0AT



CST06ST

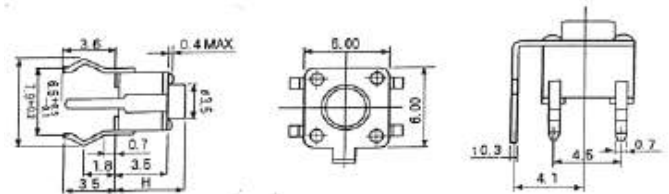


### Surface Mount Terminals

TYPE NO.	BUTTON HEIGHT
CST06S43S	4.3mm
CST06S05S	5mm
CST06S08S	8mm

Suffix /T = Tape & Reel

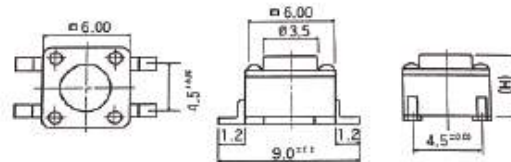
CST06SS



### Horizontal PCB Terminals

TYPE NO.	BUTTON HEIGHT
CST06S43H	4.3mm
CST06S05H	5mm
CST06S08H	8mm

CST06SH



CST06S Series Replaces CB001 Series  
 Example CST06S0AT replaces CB001A  
 Example CST06S43S replaces CB001-IFS  
 Example CST35643T replaces CB004FS

# MINIATURE SWITCHES

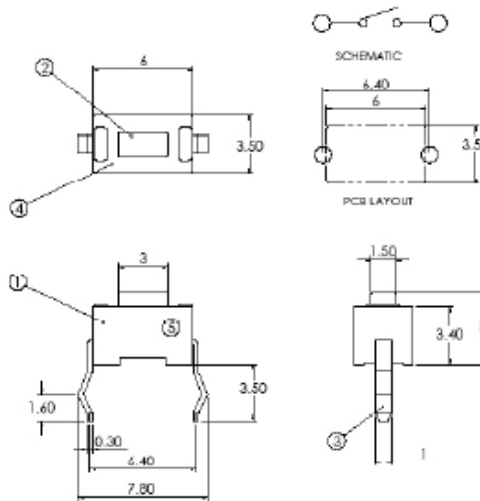
## 12x12mm Tact Switches

- Advanced switch technology
- Positive tactile action
- Tamper proof application
- Flow solder wash-away cleaning
- Through-hole PCB & surface mount terminals
- Square & round button styles
- Choice of button caps
- Can be supplied taped for auto-insertion, add suffix /T

SPECIFICATION	
Rating	50mA/12VDC
Contact resistance	100mΩ max
Insulation strength	100MΩ min/500VDC
Electrical life	CST06S00T 30,000 operations min
	CST06S00S 30,000 operations min
	CST06S00H 100,000 operations min
Temperature range	-10°C to +60°C
Operating force	160 ± 70g
Material	Case Nylon
	Button Nylon
	Contacts Phosphor Bronze Silver Plated
Terminals	Brass Silver Plated

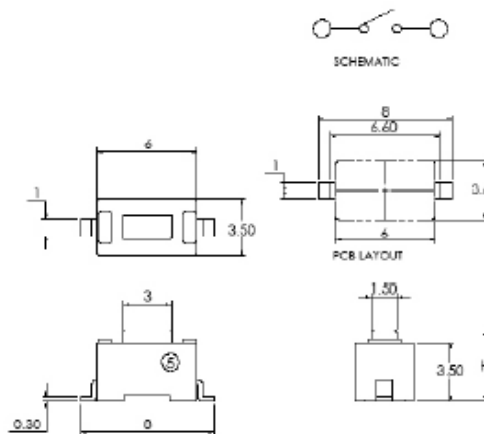
### Through-hole PCB Terminals

TYPE NO.	BUTTON HEIGHT
CST12S0AT	7.3mm
CST12S43T	4.3mm



### Surface Mount Terminals

TYPE NO.	BUTTON HEIGHT
CST12S0AS	7.3mm
CST12S43S	4.3mm



CST12S Series Replaces CB004 Series  
 Example CST12S0AT replaces CB004A  
 Example CST12S43S replaces CB00FS

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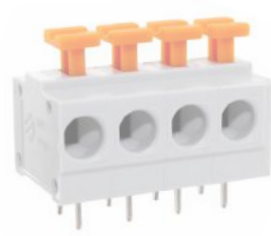
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MODULES &  
SUPPORTS

RELAY  
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## BUILDING BLOCKS TO SUCCESS

For our extensive marketing leading range of 2.5mm-10.16mm pitch terminal blocks, with wire protected and rising clamp terminals, 4A-57A rated, PCB mounting and pluggable and screwless terminal blocks, see pages 4-57.

# LIMIT & SAFETY SWITCHES

## 30mm Wide Limit Switches

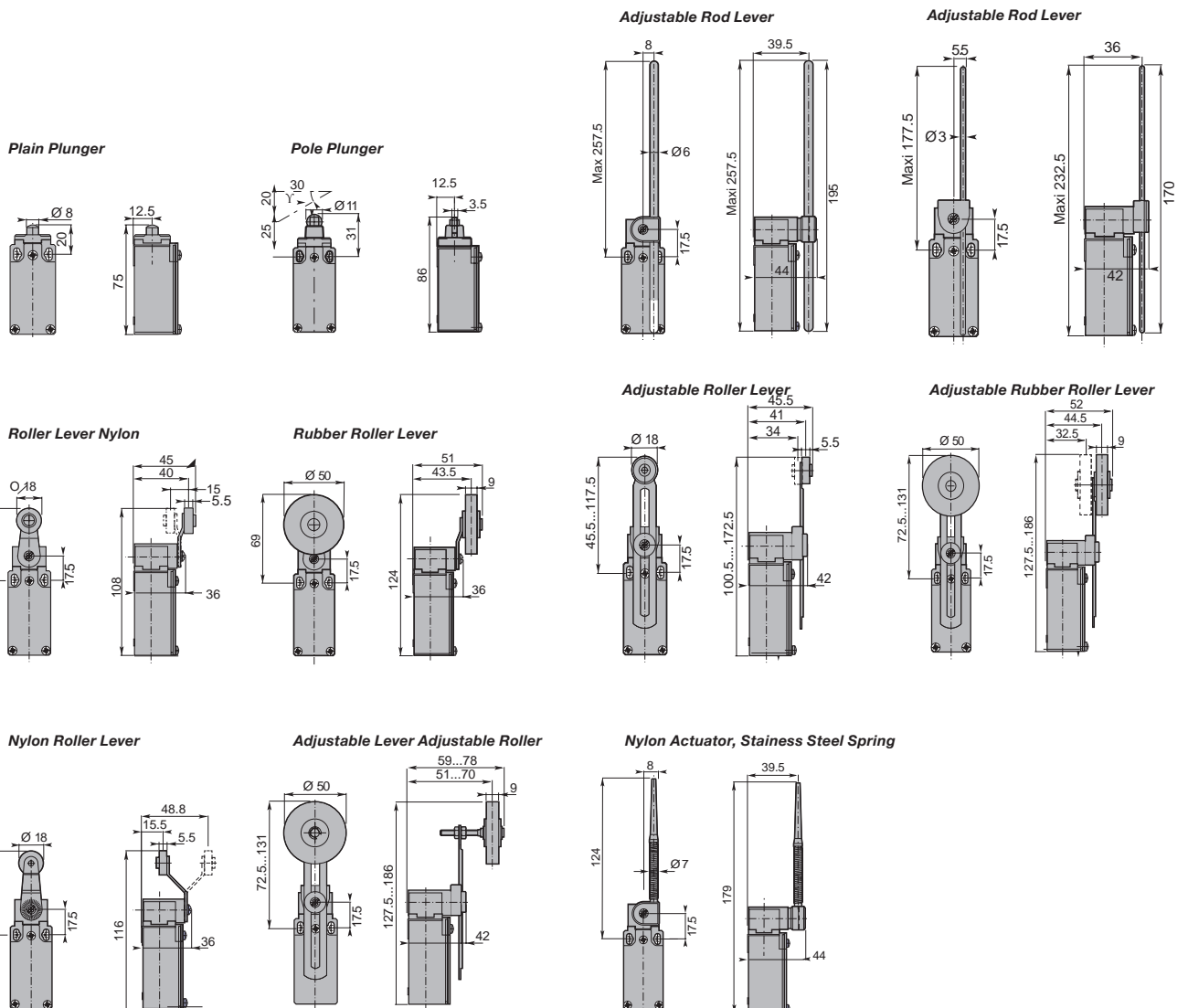


- 30mm width
- Double insulated plastic to IP65
- Metal casing to IP66
- Snap action contacts
- CE, UL, and VDE approved

### SPECIFICATION


Rating	500V
Shock withstand	50g
Impulse withstand voltage	6kV
Working temperature	-25°C to +70°C
Switching frequency	3600 cycles/h
Load factor	0.5
Short circuit protection	10A gG fuse

IP66 METAL CASING	IP65 PLASTIC CASING	IP65 METAL HEAD PLASTIC CASING	PLUNGER TYPE	MAX ACTUATION SPEED	ACTUATION/ NC OPERATION
CE10.00.AM	CE10.00.AP	CE10.00.AI	Plain Plunger	0.5ms <sup>-1</sup>	15N/30N
CE10.00.BM	CE10.00.BP	CE10.00.BI	Roller Plunger	0.3ms <sup>-1</sup>	12N/30N
CE10.00.GM	CE10.00.GP	CE10.00.GI	Adjustable Rod Lever	1.5ms <sup>-1</sup>	0.10Nm/0.32Nm
CE10.00.HM	CE10.00.HP	CE10.00.HI	Adjustable Rod Lever	1.3ms <sup>-1</sup>	0.10Nm/0.32Nm
CE10.00.EM	CE10.00.EP	CE10.00.EI	Roller Lever Nylon	1.5ms <sup>-1</sup>	0.10Nm/0.32Nm
CE10.00.EM/50	CE10.00.EP/50	CE10.00.EI/50	Rubber Roller Lever	1.5ms <sup>-1</sup>	0.10Nm/0.32Nm
CE10.00.FM	CE10.00.FP	CE10.00.FI	Adjustable Roller Lever	1.5ms <sup>-1</sup>	0.10Nm/0.32Nm
CE10.00.FM/50	CE10.00.FP/50	CE10.00.FI/50	Adjustable Rubber Roller Lever	1.5ms <sup>-1</sup>	0.10Nm/0.32Nm
CE10.00.IM	CE10.00.IP	CE10.00.II	Nylon Roller Lever	1.5ms <sup>-1</sup>	0.10Nm/0.32Nm
CE10.00.FRM/50	CE10.00.FRP/50	CE10.00.FRI/50	Adjustable Lever Adjustable Roller	1.5ms <sup>-1</sup>	0.10Nm/-
CE10.00.HLTM	CE10.00.HLTP	CE10.00.HLTI	Nylon Actuator, Stainless Steel Spring	1.5ms <sup>-1</sup>	0.10Nm/0.32Nm



# LIMIT & SAFETY SWITCHES

## 40mm Wide Limit Switches

- 40mm width
- IP65 double insulated plastic
- IP66 metal casing
- Snap action contacts
-  approved

CE 41

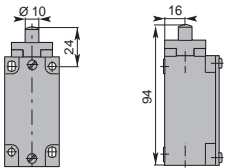


### SPECIFICATION

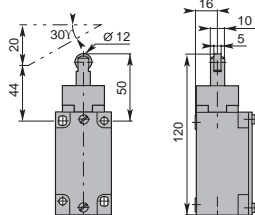
Rating	500V
Shock withstand	50g
Impulse withstand voltage	6kV
Working temperature	-25°C to +70°C
Switching frequency	3600 cycles/h
Load factor	0.5
Short circuit protection	10A gG fuse

IP66 METAL CASING	IP65 PLASTIC CASING	PLUNGER TYPE	MAX ACTUATION SPEED	ACTUATION/ NC OPERATION
CE41.00.AM	CE41.00.AP	Plain Plunger	0.5ms <sup>-1</sup>	30N/45N
CE41.00.BM	CE41.00.BP	Steel Roller Plunger	0.3ms <sup>-1</sup>	22N/40N
CE41.00.HM	CE41.00.HP	Adjustable Rod Lever	1.5ms <sup>-1</sup>	0.15Nm/0.30Nm
CE41.00.GM	CE41.00.GP	Adjustable Rod Lever	1.3ms <sup>-1</sup>	0.15Nm/0.30Nm
CE41.00.EM	CE41.00.EP	Roller Lever Nylon	1.5ms <sup>-1</sup>	0.15Nm/0.30Nm
CE41.00.EM/50	CE41.00.EP/50	Rubber Roller Lever	1.5ms <sup>-1</sup>	0.15Nm/0.30Nm
CE41.00.TM	CE41.00.TP	Pull Action with Ring	0.5ms <sup>-1</sup>	25N/-
CE41.00.FM	CE41.00.FP	Adjustable Roller Lever	1.5ms <sup>-1</sup>	0.15Nm/0.30Nm
CE41.00.FM/50	CE41.00.FP/50	Adjustable Rubber Roller Lever	1.5ms <sup>-1</sup>	0.15Nm/0.30Nm
CE41.00.KM	CE41.00.KP	One way Roller	1.5ms <sup>-1</sup>	12N/40N
CE41.00.LSM	CE41.00.LSP	Stainless Steel Spring	1.0ms <sup>-1</sup>	0.18Nm/-
CE41.00.LM	CE41.00.LP	Stainless Steel Spring Multi-Directional	1.0ms <sup>-1</sup>	0.18Nm/-

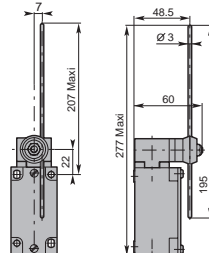
Plain Plunger



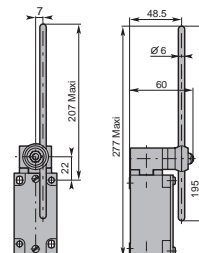
Steel Roller Plunger



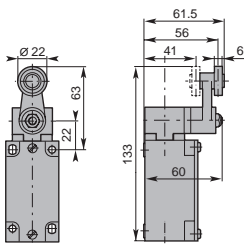
Adjustable Rod Lever



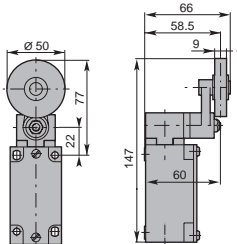
Adjustable Rod Lever



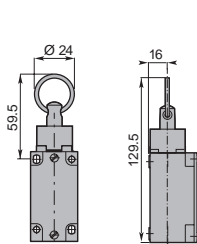
Roller Lever Nylon



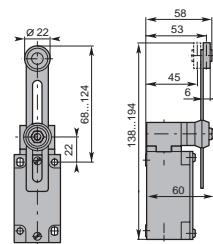
Rubber Roller Lever



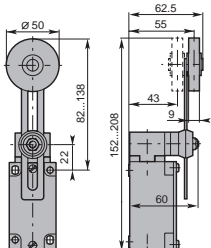
Pull Action with Ring



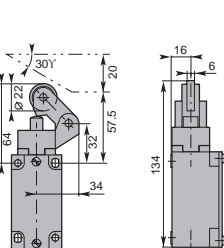
Adjustable Roller Lever



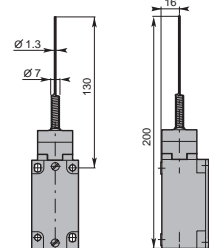
Adjustable Rubber Roller Lever



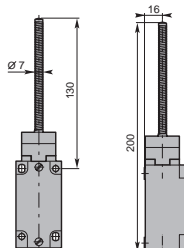
One way Roller



Stainless Steel Spring



Stainless Steel Spring Multi-Directional



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# LIMIT & SAFETY SWITCHES

## 50mm Wide IP65 Limit Switches

- 50mm width
- IP65 double insulated plastic
- Snap action contacts
- Other types available
-  approved

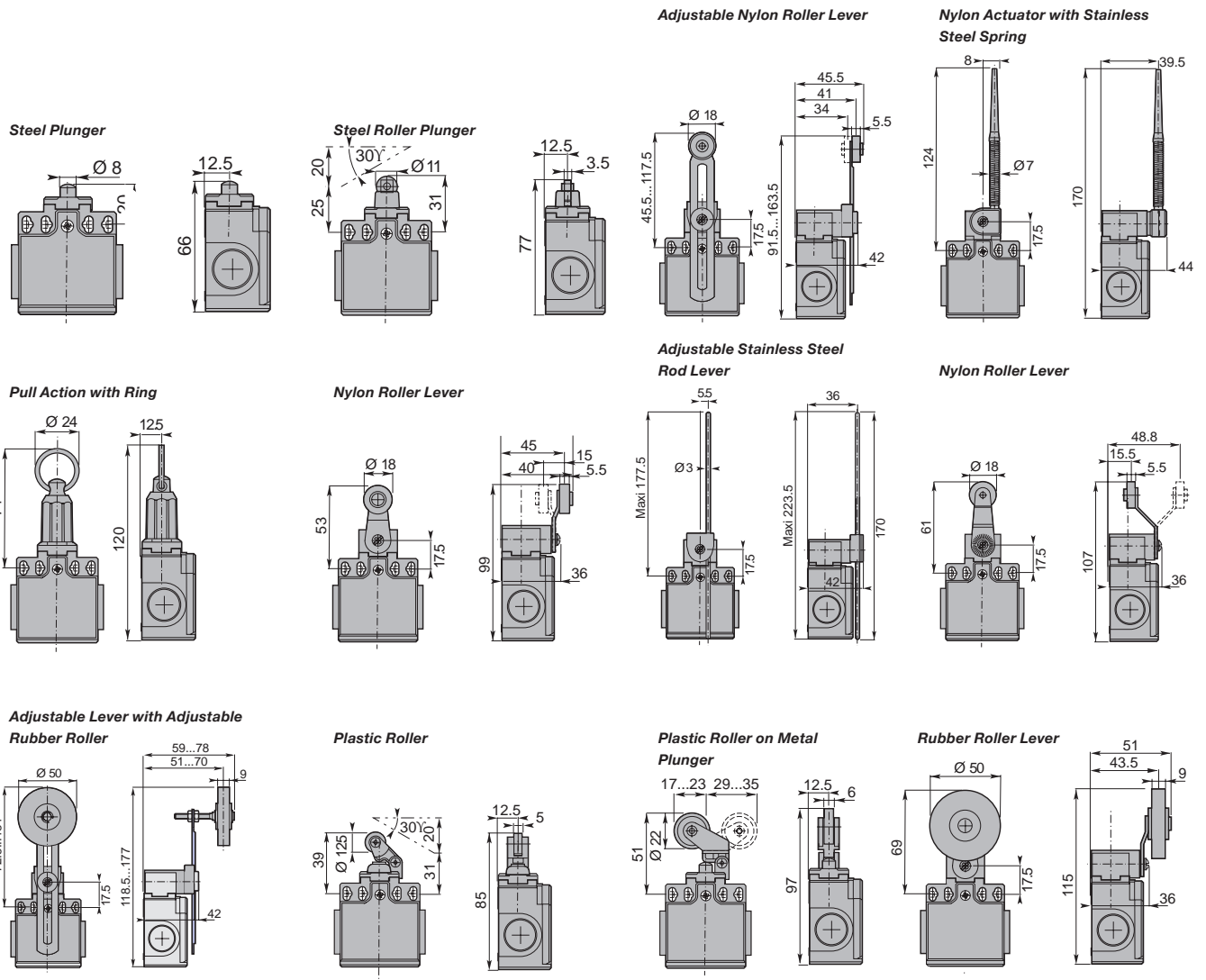
CE 20



### SPECIFICATION

Rating	500V
Shock withstand	50g
Impulse withstand voltage	6kV
Working temperature	-25°C to +70°C
Switching frequency	3600 cycles/h
Load factor	0.5
Short circuit protection	10A gG fuse

IP65 PLASTIC CASING	PLUNGER TYPE	MAX ACTUATION SPEED	ACTUATION/ NC OPERATION
CE20.00.AP	Steel Plunger	0.5ms <sup>-1</sup>	15N/30N
CE20.00.BP	Steel Roller Plunger	0.3ms <sup>-1</sup>	12N/30N
CE20.00.FP	Adjustable Nylon Roller Lever	1.5ms <sup>-1</sup>	0.10Nm/0.32Nm
CE20.00.HLTP	Nylon Actuator with Stainless Steel Spring	1.5ms <sup>-1</sup>	0.10Nm/-
CE20.00.TP	Pull Action with Ring	0.5ms <sup>-1</sup>	0.30Nm/-
CE20.00.EP	Nylon Roller Lever	1.5ms <sup>-1</sup>	0.10Nm/0.32Nm
CE20.00.HP	Adjustable Stainless Steel Rod Lever	1.5ms <sup>-1</sup>	0.15Nm/-0/30Nm
CE20.00.IP	Nylon Roller Lever	1.5ms <sup>-1</sup>	0.10Nm/0.32Nm
CE20.00.FRP/50	Adjustable Lever with Adjustable Rubber Roller	1.5ms <sup>-1</sup>	0.10Nm/0.32Nm
CE20.00.CP	Plastic Roller	1.0ms <sup>-1</sup>	7N/24N
CE20.00.DP	Plastic Roller on Metal Plunger	1.0ms <sup>-1</sup>	7N/24N
CE20.00.EP/50	Rubber Roller Lever	1.5ms <sup>-1</sup>	0.10Nm/0.32Nm



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# LIMIT & SAFETY SWITCHES

## 50mm Wide IP66 Limit Switches

- 50mm width
- IP66 metal casing
- Snap action contacts
- Other types available
-  approved

CE 21

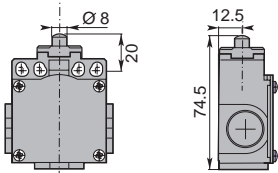


### SPECIFICATION

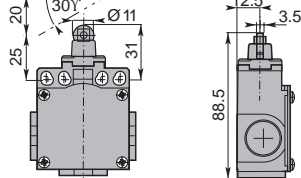
Rating	500V
Shock withstand	50g
Impulse withstand voltage	6kV
Working temperature	-25°C to +70°C
Switching frequency	3600 cycles/h
Load factor	0.5
Short circuit protection	10A gG fuse

IP66 METAL CASING	PLUNGER TYPE	MAX ACTUATION SPEED	ACTUATION/ NC OPERATION
CE21.00.AM	Plain Plunger	0.5ms <sup>-1</sup>	15N/30N
CE21.00.BM	Steel Roller Plunger	0.3ms <sup>-1</sup>	12N/30N
CE21.00.HM	Adjustable Rod Lever	1.5ms <sup>-1</sup>	0.10Nm/0.32Nm
CE21.00.GM	Adjustable Rod Lever	1.5ms <sup>-1</sup>	0.10Nm/0.32Nm
CE21.00.EM	Nylon Roller Lever	1.5ms <sup>-1</sup>	0.10Nm/0.32Nm
CE21.00.EM/50	Rubber Roller Lever	1.5ms <sup>-1</sup>	0.10Nm/0.32Nm
CE21.00.FM	Adjustable Roller Lever	1.5ms <sup>-1</sup>	0.10Nm/0.32Nm
CE21.00.FM/50	Adjustable Rubber Roller Lever	1.5ms <sup>-1</sup>	0.10Nm/0.32Nm
CE21.00.HLTM	Nylon Actuator with Stainless Steel Spring	1.5ms <sup>-1</sup>	0.10Nm/-
CE21.00.FRM/50	Adjustable Lever with Adjustable Rubber Roller	1.0ms <sup>-1</sup>	0.10Nm/-
CE21.00.IM	Nylon Roller Lever	1.0ms <sup>-1</sup>	0.10Nm/0.32Nm

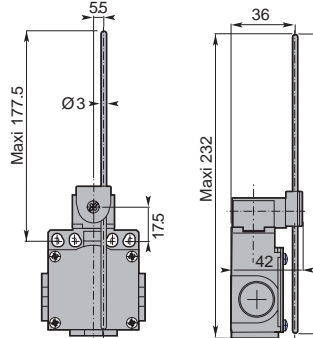
Plain Plunger



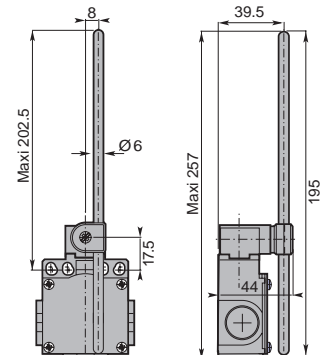
Steel Roller Plunger



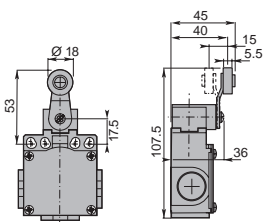
Adjustable Rod Lever



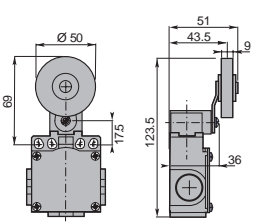
Adjustable Rod Lever



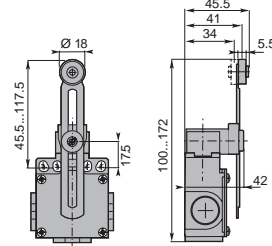
Nylon Roller Lever



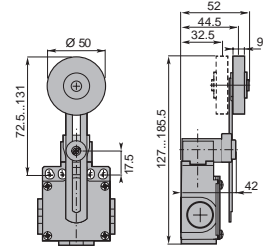
Rubber Roller Lever



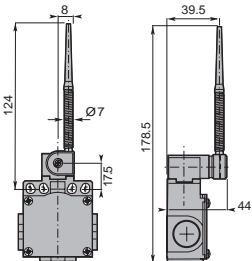
Adjustable Roller Lever



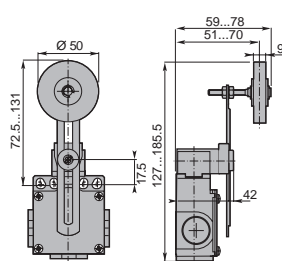
Adjustable Rubber Roller Lever



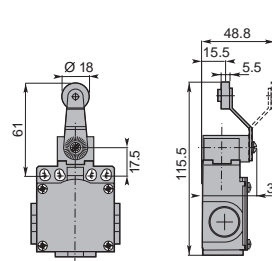
Nylon Actuator with Stainless Steel Spring



Adjustable Lever with Adjustable Rubber Roller



Nylon Roller Lever



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# LIMIT & SAFETY SWITCHES

## 60mm Wide Limit Switches

- 60mm width
- IP66 metal casing
- Snap action contacts
- Other types available
-  approved

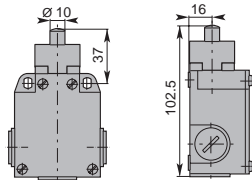


### SPECIFICATION

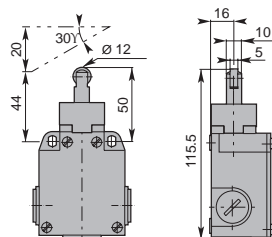
Rating	500V
Shock withstand	50g
Impulse withstand voltage	6kV
Working temperature	-25°C to +70°C
Switching frequency	3600 cycles/h
Load factor	0.5
Short circuit protection	10A gG fuse

IP66 METAL CASING	PLUNGER TYPE	MAX ACTUATION SPEED	ACTUATION/ NC OPERATION
CE31.00.AM	Plain Plunger	0.5ms <sup>-1</sup>	30N/45N
CE31.00.BM	Steel Roller Plunger	0.5ms <sup>-1</sup>	22N/40N
CE31.00.CM	Side Roller Lever	1.5ms <sup>-1</sup>	12N/30N
CE31.00.HM	Adjustable Rod Lever	1.5ms <sup>-1</sup>	0.15Nm/0.30Nm
CE31.00.GM	Adjustable Rod Lever	1.5ms <sup>-1</sup>	0.15Nm/0.30Nm
CE31.00.EM	Nylon Roller Lever	1.5ms <sup>-1</sup>	0.15Nm/0.30Nm
CE31.00.EM/50	Rubber Roller Lever	1.5ms <sup>-1</sup>	0.15Nm/0.30Nm
CE31.00.FM	Adjustable Roller Lever	1.5ms <sup>-1</sup>	0.15Nm/0.30Nm
CE31.00.FM/50	Adjustable Roller Lever	1.5ms <sup>-1</sup>	0.15Nm/0.32Nm
CE31.00.LBM/90	Stainless Steel Lateral Plunger with Vertical Roller	1.5ms <sup>-1</sup>	30N/50N
CE31.00.LAM	Stainless Steel Lateral Plain Plunger	0.5ms <sup>-1</sup>	30N/50N
CE31.00.LM	Stainless Steel Spring Multidirectional Acuator	1.0ms <sup>-1</sup>	0.18N/

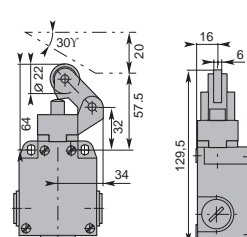
Plain Plunger



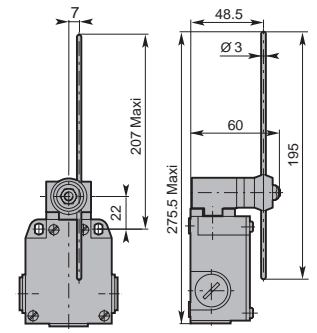
Steel Roller Plunger



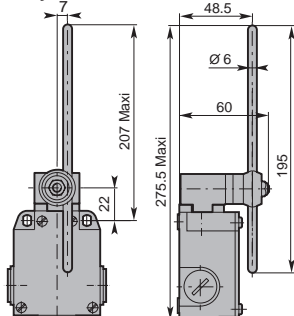
Side Roller Lever



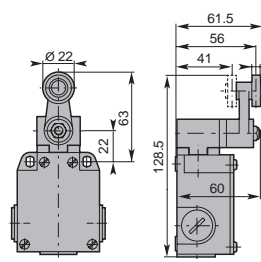
Adjustable Rod Lever



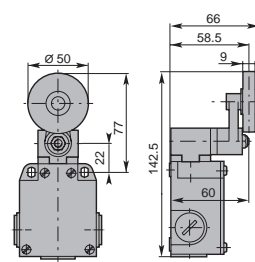
Adjustable Rod Lever



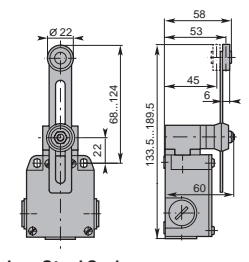
Nylon Roller Lever



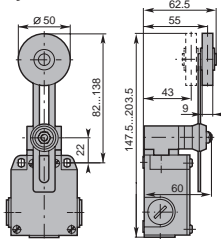
Rubber Roller Lever



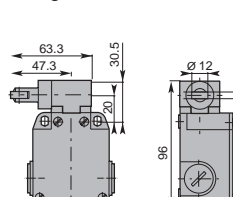
Adjustable Roller Lever



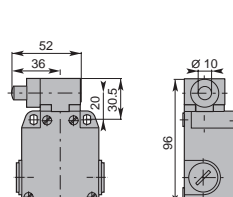
Adjustable Roller Lever



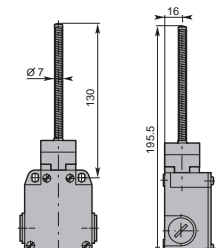
Stainless Steel Lateral Plunger with Vertical Roller



Stainless Steel Lateral Plain Plunger




Stainless Steel Spring Multidirectional Actuator



# LIMIT & SAFETY SWITCHES

## 30mm Wide Pre-wired Limit Switches

- 30mm width
- Pre wired. 1M cable standard
- For 2M cable add suffix /2
- Metal casing
- IP67
- Snap action contacts
-  us, approved

CE 70



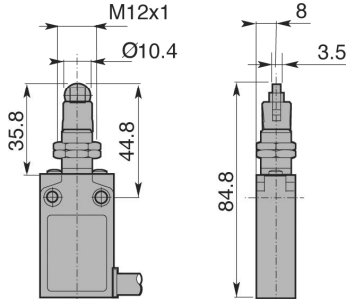
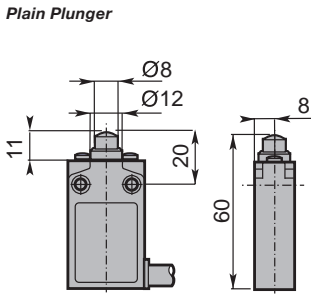
### SPECIFICATION

Rating	400V
Cable	PVC 1m 4x0.75mm <sup>2</sup>
Impulse withstand voltage	4kV
Working temperature	-25°C to +70°C
Switching frequency	3600 cycles/h
Load factor	0.5
Short circuit protection	6A gG fuse

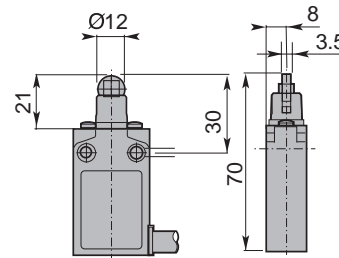
TYPE NO.	PLUNGER TYPE	MAX ACTUATION SPEED	ACTUATION/NC OPERATION
CE70.0.AM	Plain Plunger	0.5ms <sup>-1</sup>	15N/30N
CE70.0.BLM	Roller Plunger With Fixing Nut	0.1ms <sup>-1</sup>	10N/30N
CE70.0.BM	Roller Plunger	0.1ms <sup>-1</sup>	10N/30N
CE70.0.EM	Roller Lever	1.5ms <sup>-1</sup>	0.08Nm/0.28Nm
CE70.0.FM	Adjustable Nylon Roller Lever	1.5ms <sup>-1</sup>	0.08Nm/0.28Nm
CE70.0.GM	Adjustable Rod Lever	1.5ms <sup>-1</sup>	0.08Nm/0.28Nm
CE70.0.HM	Adjustable Rod Lever	1.5ms <sup>-1</sup>	0.08Nm/0.28Nm

### Roller Plunger With Fixing Nut

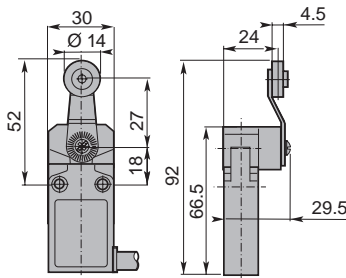
#### Plain Plunger



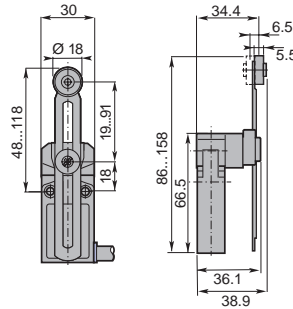
#### Roller Plunger



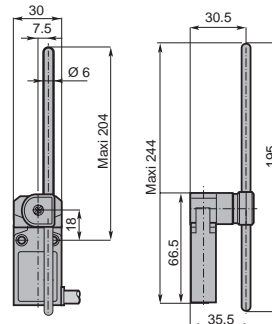
#### Roller Lever



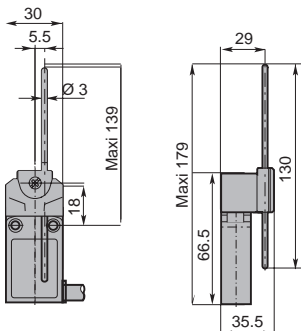
#### Adjustable Nylon Roller Lever



#### Adjustable Rod Lever



#### Adjustable Rod Lever



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# LIMIT & SAFETY SWITCHES

## 35mm Wide Pre-wired Limit Switches

- 35mm width
- Pre wired
- Metal casing
- IP67
- Snap action contacts
- Other types available
-  us, approved

CE 60

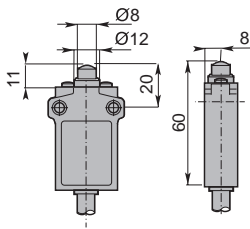


### SPECIFICATION

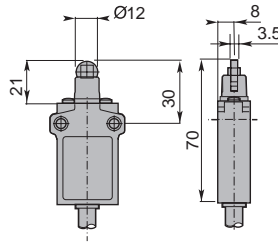
Rating	400V
Cable	PVC 1m 4x0.75mm <sup>2</sup>
Impulse withstand voltage	4kV
Working temperature	-25°C to +70°C
Switching frequency	3600 cycles/h
Load factor	0.5
Short circuit protection	6A gG fuse

TYPE NO.	PLUNGER TYPE	MAX ACTUATION SPEED	ACTUATION/NC OPERATION
CE60.00.AM	Plain Plunger	0.5ms <sup>-1</sup>	15N/30N
CE60.00.BM	Roller Plunger	0.1ms <sup>-1</sup>	10N/30N
CE60.00.EM	Roller Lever	1.5ms <sup>-1</sup>	0.08Nm/0.28Nm
CE60.00.FM	Adjustable Nylon Roller Lever	1.5ms <sup>-1</sup>	0.08Nm/0.28Nm
CE60.00.GM	Adjustable Rod Lever	1.5ms <sup>-1</sup>	0.08Nm/0.28Nm
CE60.00.HM	Adjustable Rod Lever	1.5ms <sup>-1</sup>	0.08Nm/0.28Nm

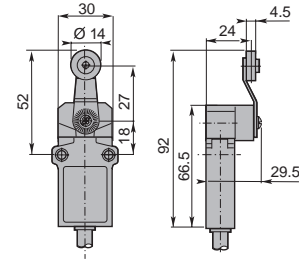
Plain Plunger



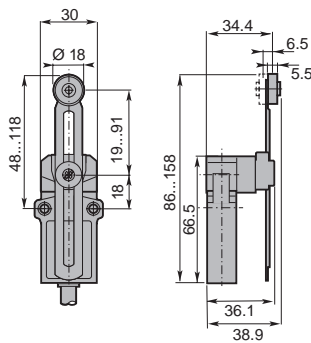
Roller Plunger



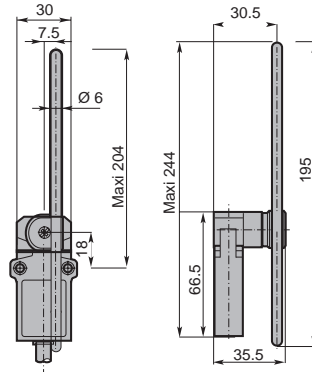
Roller Lever



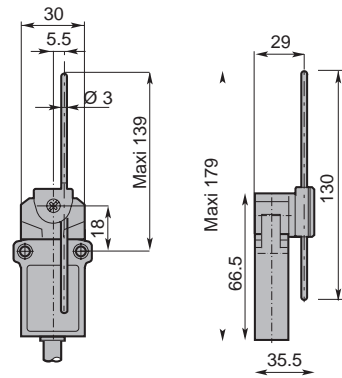
Adjustable Nylon Roller Lever



Adjustable Rod Lever



Adjustable Rod Lever





# LIMIT & SAFETY SWITCHES

## Safety Limit Switches

- Visible operation electromechanical limit safety switch
- High switch current
- Precise operating points
- Snap action, slow action, break and make before break, simultaneous action contact block options
- 1, 2 & 3 cable inlet options

- Polymeric IP65 and metal IP66 casing
- PG13.5 inlet as standard
- M20x1.5 inlet available to order

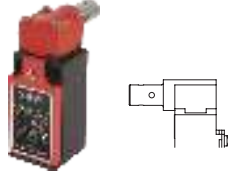
### SPECIFICATION

Rating	10A/24VAC, 1A/230VAC-3, 9A/380VAC-1, 8A/24VDC-2, 0.27A/250VDC
Insulation voltage	690V
	CE10-M & CE21-M 400V
Impulse withstand voltage	6kV
Operating temperature	-25°C to +70°C
Short circuit protection	Fuse 10A type gG

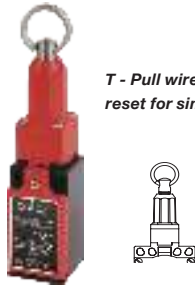
S5 - 90° adjustable head key operated



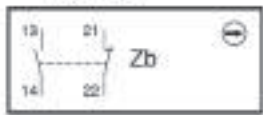
SC - Zinc plated shaft



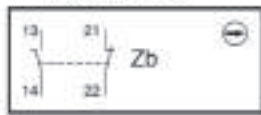
T - Pull wire without reset for simple stop



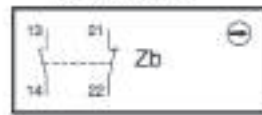
00 Snap action 1NO+1NC



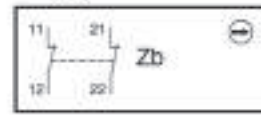
05 Slow action break before make 1NO+1NC



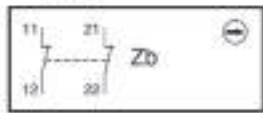
01 Slow action make before break 1NO+1NC



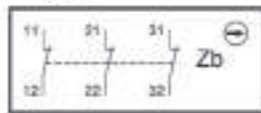
02 Simultaneous slow action 2NC



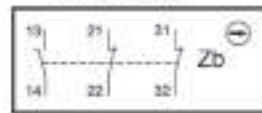
03 Snap action 2NC



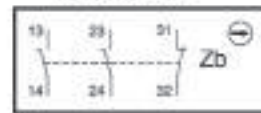
09 Simultaneous slow action 3NC



08 Slow action break before make 1NO+2NC



06 Slow action break before make 2NO+1NC



### 30mm Polymeric Casing 1 Cable Inlet IP65 S5

TYPE NO.	CONTACT HEIGHT
CE10.00.S5P	00
CE10.05.S5P	05
CE10.01.S5P	01
CE10.02.S5P	02
CE10.03.S5P	03

### SC

TYPE NO.	CONTACT HEIGHT
CE10.00.SCP	00
CE10.05.SCP	05
CE10.01.SCP	01
CE10.02.SCP	02
CE10.03.SCP	03

### T

TYPE NO.	CONTACT HEIGHT
CE10.00.TB	00
CE10.05.TB	05
CE10.01.TB	01
CE10.02.TB	02
CE10.03.TB	03



### 30mm Metal Casing 1 Cable Inlet IP66 S5

TYPE NO.	CONTACT HEIGHT
CE10.00.S5M	00
CE10.05.S5M	05
CE10.01.S5M	01
CE10.02.S5M	02
CE10.03.S5M	03

### SC

TYPE NO.	CONTACT HEIGHT
CE10.00.SCM	00
CE10.05.SCM	05
CE10.01.SCM	01
CE10.02.SCM	02
CE10.03.SCM	03

### T

TYPE NO.	CONTACT HEIGHT
CE10.00.TM	00
CE10.05.TM	05
CE10.01.TM	01
CE10.02.TM	02
CE10.03.TM	03



PCB TERMINAL BLOCKS

INTER-CONNECTION

FUSES & FUSE-HOLDERS

LEDs & INDICATORS

MINIATURE SWITCHES

LIMIT & SAFETY SWITCHES

CONTROL PRODUCTS

INTERFACE MODULES & SUPPORTS

RELAY BASES

ENCLOSURES

BATTERIES

TRANSFORMERS



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# LIMIT & SAFETY SWITCHES

## 40mm Polymetric Casing 1 Cable Inlet IP65 S5

TYPE NO.	CONTACT HEIGHT
CE41.00.S5P	00
CE41.05.S5P	05
CE41.01.S5P	01
CE41.02.S5P	02
CE41.03.S5P	03
CE41.09.S5P	09
CE41.08.S5P	08
CE41.06.S5P	06



## 40mm Metal Casing 1 Cable Inlet IP66 S5

TYPE NO.	CONTACT HEIGHT
CE41.00.S5M	00
CE41.05.S5M	05
CE41.01.S5M	01
CE41.02.S5M	02
CE41.03.S5M	03
CE41.09.S5M	09
CE41.08.S5M	08
CE41.06.S5M	06

T	TYPE NO.	CONTACT HEIGHT
	CE41.00.TM	00
	CE41.05.TM	05
	CE41.01.TM	01
	CE41.02.TM	02
	CE41.03.TM	03
	CE41.09.TM	09
	CE41.08.TM	08
	CE41.06.TM	06



## 50mm Polymeric Casing 3 Cable Inlet IP65 S5

TYPE NO.	CONTACT HEIGHT
CE20.00.S5P	00
CE20.05.S5P	05
CE20.01.S5P	01
CE20.02.S5P	02
CE20.03.S5P	03

SC	TYPE NO.	CONTACT HEIGHT
	CE20.00.SCP	00
	CE20.05.SCP	05
	CE20.01.SCP	01
	CE20.02.SCP	02
	CE20.03.SCP	03

T	TYPE NO.	CONTACT HEIGHT
	CE20.00.TB	00
	CE20.05.TB	05
	CE20.01.TB	01
	CE20.02.TB	02
	CE20.03.TB	03



## 50mm Metal Casing 3 Cable Inlet IP66 S5

TYPE NO.	CONTACT HEIGHT
CE21.00.S5M	00
CE21.05.S5M	05
CE21.01.S5M	01
CE21.02.S5M	02
CE21.03.S5M	03

SC	TYPE NO.	CONTACT HEIGHT
	CE21.00.SCM	00
	CE21.05.SCM	05
	CE21.01.SCM	01
	CE21.02.SCM	02
	CE21.03.SCM	03

T	TYPE NO.	CONTACT HEIGHT
	CE21.00.TM	00
	CE21.05.TM	05
	CE21.01.TM	01
	CE21.02.TM	02
	CE21.03.TM	03



## 60mm Metal Casing 1 Cable Inlet IP66 S5

TYPE NO.	CONTACT HEIGHT
CE31.00.S5M	00
CE31.05.S5M	05
CE31.01.S5M	01
CE31.02.S5M	02
CE31.03.S5M	03
CE31.09.S5M	09
CE31.08.S5M	08
CE31.06.S5M	06

T	TYPE NO.	CONTACT HEIGHT
	CE31.00.TM	00
	CE31.05.TM	05
	CE31.01.TM	01
	CE31.02.TM	02
	CE31.03.TM	03
	CE31.09.TM	09
	CE31.08.TM	08
	CE31.06.TM	06



PCB  
TERMINAL  
BLOCKS

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FUSES &  
FUSE-  
HOLDERS

LEDs &  
INDICATORS

MINIATURE  
SWITCHES

LIMIT &  
SAFETY  
SWITCHES

CONTROL  
PRODUCTS

INTERFACE  
MODULES &  
SUPPORTS

RELAY  
BASES

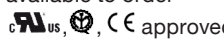
ENCLOSURES

BATTERIES

TRANS-  
FORMERS

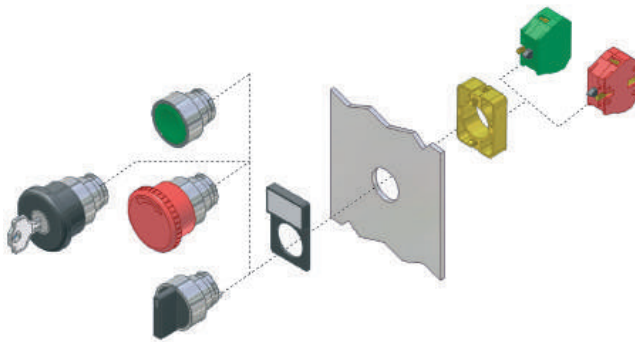
# CONTROL PRODUCTS

## 22mm Diameter Control Switches

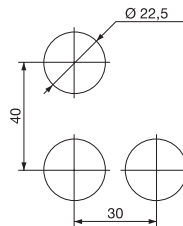
- Metal and plastic bodied control Push-Buttons, E-stops & selector switches
- Rated 600V, 10A max AC
- Operating frequency 3,600 per hour
- Panels mount 1-6mm thick
- Positive opening operation
- Conform to IEC 947-5-1 & EN 60947-5-1
- Terminal marking to EN 50013
- Other button options available to order
-  approved

### SPECIFICATION

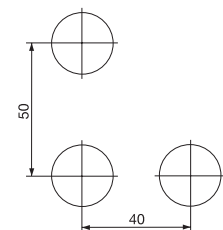
Rated voltage	600V	
Rated AC current	24V	10A
	240V	6A
	400V	4A
Rated DC current	24V	2.8A
	125V	0.55A
	250V	0.27A
Short circuit protection	gG fuse	10A
Impulse withstand	6kV	
Internal resistance	<25mΩ	
Wire acceptance	0.75-2.5mm <sup>2</sup>	
Rated temperature	Operating	-25° to +70°
	Storage	-40° to +80°
Body / escutcheon	Metal	Chromium plated
	Plastic	Fibreglass reinforced thermo-plastic
Electrical Protection	Metal	Class I
	Plastic	Class II
Ingress Protection	IP65	
Life	1x10 <sup>6</sup> operation	



230V & same polarity panel spacing

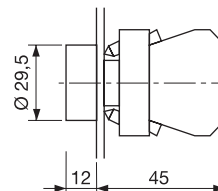


400V & different polarity panel spacing



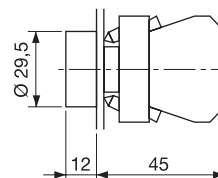
### Flush Push Buttons

METAL BODIED	PLASTIC BODIED	COLOUR
CCTTR30BK	CCTPR30BK	Black
CCTTR30RD	CCTPR30RD	Red
CCTTR30GW	CCTPR30GW	Green
CCTTR30YW	CCTPR30YW	Yellow
CCTTR30BL	CCTPR30BL	Blue
CCTTR30WH	CCTPR30WH	White



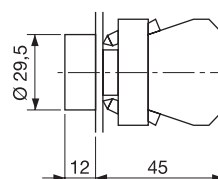
### On/Off Push Buttons

METAL BODIED	PLASTIC BODIED	COLOUR
CCTTR00RD	CCTPR00RD	Red - 0
CCTTR01GN	CCTPR01GN	Green - 1



### Arrow Push Buttons

METAL BODIED	PLASTIC BODIED	STYLE
CCTTRAHBK	-	Horizontal
CCTTRAVBK	-	Vertical

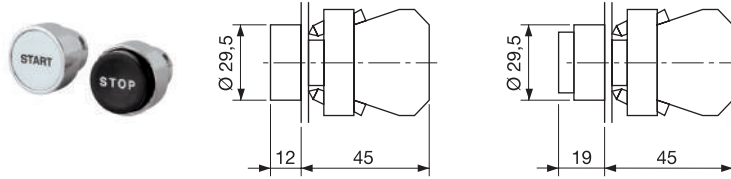


# CONTROL PRODUCTS

## Start/Stop Push Buttons

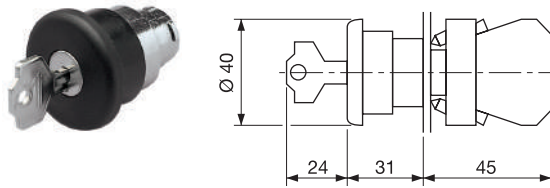
METAL BODIED	PLASTIC BODIED	STYLE
CCTTRSTWH	-	White Start
CCTTRSPBK	-	Black Stop
CCTTRONWH	-	White On
CCTTROFBK	-	Black Off

Black Button - Extended Height



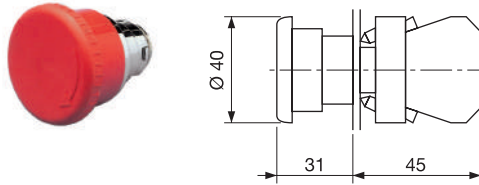
## 40mm E-stop Key Release

METAL BODIED	PLASTIC BODIED	COLOUR
CCTTM41LB	CCTPM41LB	Black
CCTTM41LR	CCTPM41LR	Red



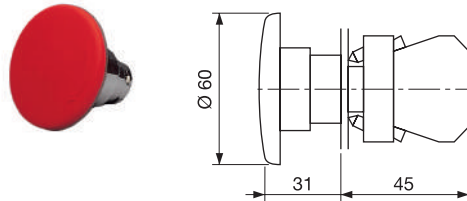
## 40mm E-stop Twist Release

METAL BODIED	PLASTIC BODIED	COLOUR
CCTTM40LB	CCTPM40LB	Black
CCTTM40LR	CCTPM40LR	Red



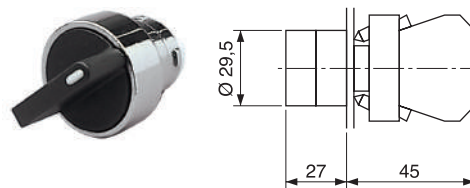
## 60mm E-stop Twist Release

METAL BODIED	PLASTIC BODIED	COLOUR
CCTTM60LB	CCTPM60LB	Black
CCTTM60LR	CCTPM60LR	Red



## Selector Switch

- Black short lever, 2 and 3 position selector switch
- Maintain & spring return options



METAL BODIED	PLASTIC BODIED	POSITIONS	STYLE
CCTTSS211	CCTPSS211	2	Maintained left & right
CCTTSS210	CCTPSS210	2	Return left
CCTTSS311	CCTPSS311	3	Maintained left, centre & right
CCTTSS300	CCTPSS300	3	Return to centre from left & right
CCTTSS301	CCTPSS301	3	Return to centre from left, maintained right
CCTTSS310	CCTPSS310	3	Return to centre from right, maintained left

PCB  
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SAFETY  
SWITCHES

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PRODUCTS

INTERFACE  
MODULES &  
SUPPORTS

RELAY  
BASES

ENCLOSURES

BATTERIES

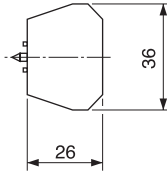
TRANS-  
FORMERS



# CONTROL PRODUCTS

## Contact Block

- NO and NC contact blocks
- Screw fixed to mounting plate
- Can be stacked side by side/piggybacked



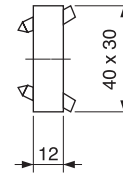
TYPE NO.	DESCRIPTION
CCTTC1R	Red NC
CCTTC0G	Green NO

## Mounting Plate

- Mounting plate for contact blocks
- Holds 1 or 2 NO or NC contact blocks
- Metal plate must be used with metal switches



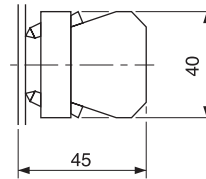
TYPE NO.	DESCRIPTION
CCTTP	Metal Mounting plate
CCTTPP	Plastic Mounting Plate



## Contact Block with Mounting Plate

- Control blocks and mountings plates as above supplied as one assembly
- Plastic plate must be used with plastic switches

TYPE NO.	DESCRIPTION
CC10B	Green NO contact + metal base
CC01B	Red NC contact + metal base
CC10B/IP	Green NO contact + plastic base
CC01B/IP	Red NC contact + plastic base



## Dust Cap

- Clear Silicon protection cap for push buttons
- Other colours to order



TYPE NO.	DESCRIPTION
CCTTRDCL	Clear dust cap

## Keys for E-Stop Key Release

TYPE NO.	SLEEVE
CCTTKRD	Red
CCTTKBK	Black



## Button Surrounds

- Yellow engraved black emergency stop
- Black name plate with recessed label area

TYPE NO.	DESCRIPTION
CCTTBES	60mm diameter e-stop
CCTTBNP	Name plate blank





# CONTROL PRODUCTS

## Control Stations

- IP65 ABS enclosures suitable for control switches and equipment
- Grey and Yellow lid colour options
- Standard boxes and holes moulded in for 22mm diameter control switches
- Diameter 21mm (PG13.5) knockouts moulded in enclosure
- Pre assembled control station and control switching available to order
- Larger size to order

### SPECIFICATION

Material	ABS	
Protection class	IP65	
Rated temperature	Operating	-25° to +70°
	Storage	-40° to +80°
Standard colours	Box & lid	Grey RAL 7035
	lid	Yellow RAL 1103

## Standard Boxes

TYPE NO.	LID COLOUR	LEGNTH	WIDTH	HEIGHT
CCS00GY00	Grey	70mm	70mm	51mm
CCS03GY00	Grey	70mm	70mm	74mm
CCS05GY00	Grey	105mm	70mm	51mm
CCS06GY00	Grey	105mm	70mm	74mm
CCS07GY00	Grey	140mm	70mm	51mm
CCS08GY00	Grey	140mm	70mm	74mm
CCS09GY00	Grey	185mm	70mm	51mm
CCS10GY00	Grey	185mm	70mm	74mm



## Single Button

TYPE NO.	LID COLOUR	LEGNTH	WIDTH	HEIGHT
CCS00GY01	Grey	70mm	70mm	51mm
CCS00YW01	Yellow	70mm	70mm	51mm
CCS03GY01	Grey	70mm	70mm	74mm
CCS03YW01	Yellow	70mm	70mm	74mm



## Two Button

TYPE NO.	LID COLOUR	LEGNTH	WIDTH	HEIGHT
CCS05GY02	Grey	105mm	70mm	51mm
CCS06GY02	Grey	105mm	70mm	74mm



## Three Button

TYPE NO.	LID COLOUR	LEGNTH	WIDTH	HEIGHT
CCS07GY03	Grey	140mm	70mm	51mm
CCS08GY03	Grey	140mm	70mm	74mm



## Four Button

TYPE NO.	LID COLOUR	LEGNTH	WIDTH	HEIGHT
CCS09GY04	Grey	185mm	70mm	51mm
CCS10GY04	Grey	185mm	70mm	74mm



## Five & Six Button

TYPE NO.	BUTTONS	LID COLOUR	LEGNTH	WIDTH	HEIGHT
CCS11GY05	5	Grey	225mm	70mm	74mm
CCS11GY06	6	Grey	225mm	70mm	74mm



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# CONTROL PRODUCTS

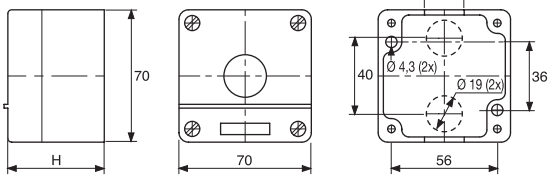
## Mounting Plates

TYPE NO.	BUTTONS
CCSP01	1
CCSP02	2
CCSP03	3
CCSP04	4
CCSP05	5

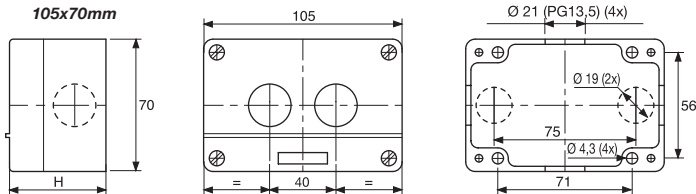
for 6 button use 2x CCSP03



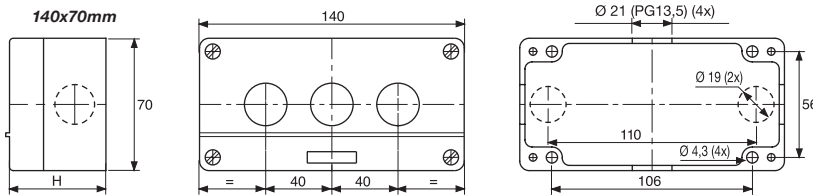
70x70mm



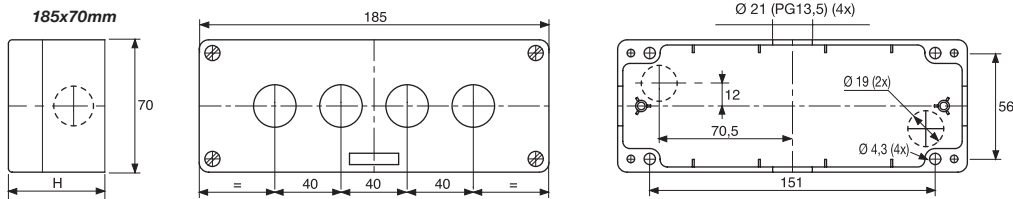
105x70mm



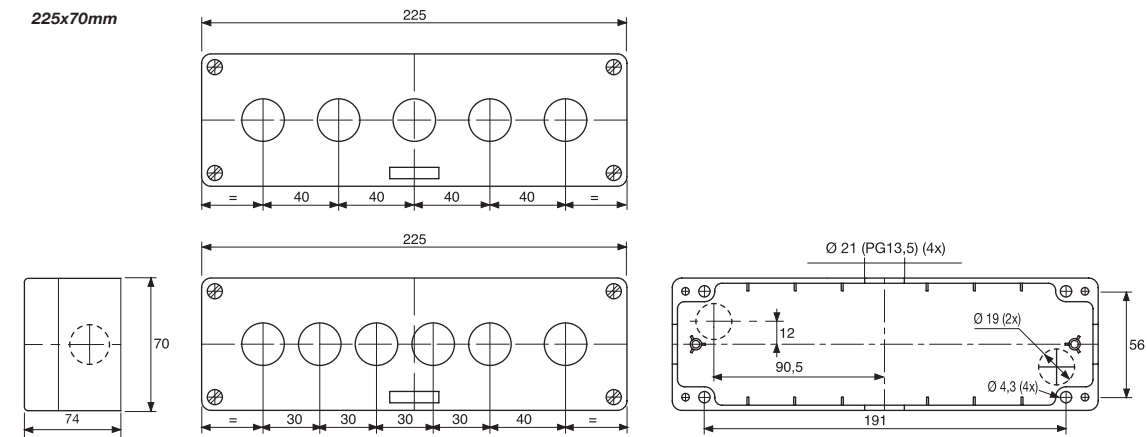
140x70mm



185x70mm



225x70mm



# CONTROL PRODUCTS

## Heavy Duty Footswitch

- Industrial die-cast footswitch for heavy duty applications
- Snap action and slow action contact blocks
- 1 NO + 1 NC
- Rising saddle-washer terminal connections
- Single or double-pole contact blocks
- Positive opening operation
- Silver contacts
- Anti Slip foot pedal
- Non-slip rubber feet
- Supplied with cable gland
- IP65 Sealed
- CEE approved

### SPECIFICATIONS

Contact Block Rated	10A		
Insulation voltage (Ui)	500VAC 600VDC		
Protection against short circuits	fuse 10A 500V type aM		
Alternate current: AC15 (50-60Hz)			
Ui (V)	250	400	500
Ie (A)	6	4	1
Direct current: DC13			
Ue (V)	24	125	250
Ie (A)	6	1.1	0.4
Connectors flexible wire sizes	min	1 x 0.5 mm <sup>2</sup> (1 x AWG 20)	
	max	2 x 2.5mm <sup>2</sup> (2 x AWG 14)	
Actuating force	single snap action		10N
	single slow action		12N
	double snap action		13N
	double slow action		15N
Ambient temperature	from -25°C to +80°C		
Weight guarded	1.4 kg		
Unguarded	0.55 kg		

### Guarded

PART NO.	DESCRIPTION
CFSHC1	Guarded 1 snap action contact block
CFSHC2	Guarded 1 slow action contact block
CFSHC1C1	Guarded 2 snap action contact blocks
CFSHC2C2	Guarded 2 slow action contact blocks
CFSHC1C2	Guarded 1 snap and 1 slow action contact blocks



### Unguarded

PART NO.	DESCRIPTION
CFUHC1	Unguarded 1 snap action contact block
CFUHC2	Unguarded 1 slow action contact block
CFUHC1C1	Unguarded 2 snap action contact blocks
CFUHC2C2	Unguarded 2 slow action contact blocks
CFUHC1C2	Unguarded 1 snap and 1 slow action contact blocks



PCB  
TERMINAL  
BLOCKS

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FUSES &  
FUSE-  
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MINIATURE  
SWITCHES

LIMIT &  
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ELECTRONICS & ENCLOSURES

# CONTROL PRODUCTS

## IP66 Control Station Enclosures

ABS enclosures pre-drilled with 22mm holes for the mounting of pushbutton switches

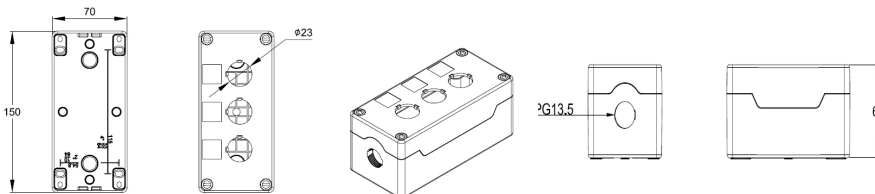
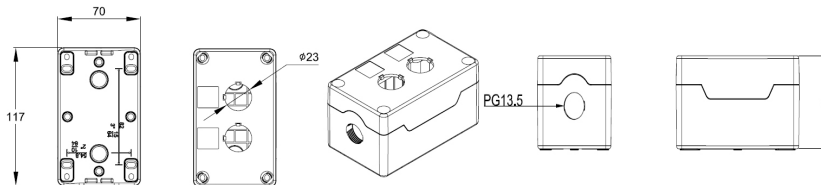
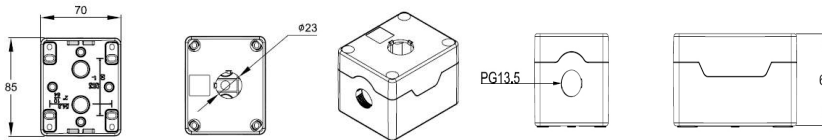
- IP66 sealed
- 21mm diameter knockouts with PG13.5 thread for cable glands
- Black base with yellow lid
- Wall mountable via secure screws in base/cable tie clamp
- Captive plastic screws

### SPECIFICATIONS

Materials	ABS UL94-V0
Protection Class	IP66
Rated Temperature	from -25°C to +70°C
Standard Colours	Lid- Yellow (RAL 1023) Black (RAL 9017)

### Empty Enclosures

TYPE NO	HOLES	LID COLOUR	LENGTH	WIDTH	HEIGHT
SC1A	1	Yellow	85	70	65
SC2A	2	Yellow	117	70	65
SC3A	3	Yellow	150	70	65



# CONTROL PRODUCTS

## Piezo switches, Plastic, RGB LED Illuminated, 26mm

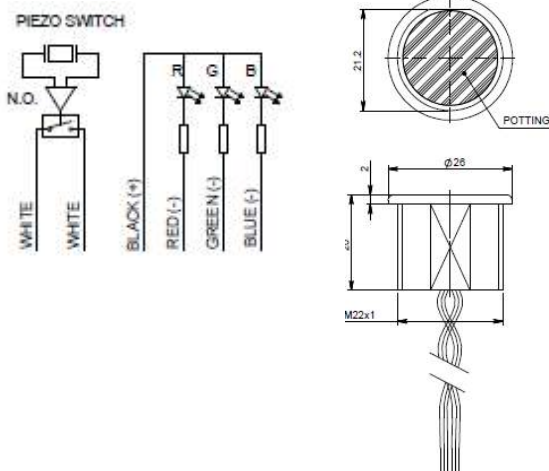
Plastic piezo switches offering rugged, sealed tamper and vandal proof solid state switching. Exceptional durability and reliability. Fitted with red, green and blue LED's for illumination.

- 26mm diameter actuator
- 22.5mm diameter mounting hole
- Normally open, momentary action
- Make impulse time of 125-300 msec
- Recessed face
- Wire termination
- IP68 Sealed
- Available in 12V and 24V LED's

CPS22IF-PLWH-12RGB



PART NO.	LED VOLTAGE
CPS22IF-PLWH-12RGB	12V DC
CPS22IF-PLWH-24RGB	24V DC



SPECIFICATIONS	
Operating voltage:	1-24V AC/DC
Switching current	0.2A max
Actuation force	3-5N
Operating temperature	from -20°C to +70°C
LED Operating voltage	12V DC max OR 24V DC max
LED max current consumption:	(12V) (24V)
Red	18mA 18mA
Green	9mA 9mA
Blue	27mA 16mA
Ingress Protection	IP69
Lifetime	50 million operations
Material	POM

PCB  
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# CONTROL PRODUCTS

## Piezo switches, Non-illuminated, 18mm Actuator

Aluminium piezo switches offering rugged, sealed tamper and vandal resistant solid state switching. Exceptional durability and reliability.

- 18mm diameter actuator
- 16mm diameter mounting hole
- Normally open, momentary action
- Make impulse time of 125-300 msec
- Flat faced
- Wire termination
- IP68 Sealed
- Available in three colour finishes

### SPECIFICATIONS

Operating voltage	1-24V AC/DC
Switching current	0.2A max
Actuation force	3-5N
Operating temperature	from -40°C to +125°C
Ingress Protection	IP68
Lifetime	50 million operations
'ON' resistance	<20Ω
'OFF' resistance	>5mΩ

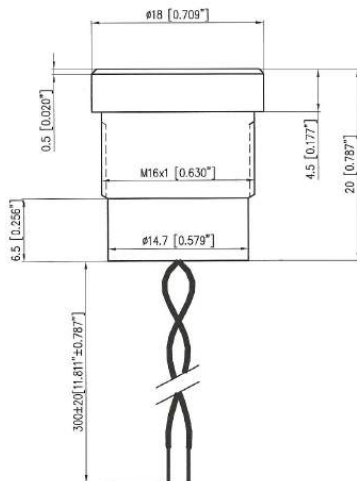
CPS16NF-ALNA



CPS16NF-ALRD



CPS16NF-ALGN



PART NO.	DESCRIPTION
CPS16NF-ALNA	Natural
CPS16NF-ALRD	Red
CPS16NF-ALGN	Green

# CONTROL PRODUCTS

## Piezo switches, Point Illuminated

Aluminium piezo switches offering rugged, sealed tamper and vandal resistant solid state switching. Exceptional durability and reliability.

- Red/green spot illumination
- 28mm diameter actuator
- 22.5mm diameter mounting hole (PG16)
- Normally open, momentary action
- Make impulse time of 125-300 msec
- Choice of flat and recessed actuator
- Wire termination
- IP68 Sealed

### SPECIFICATIONS

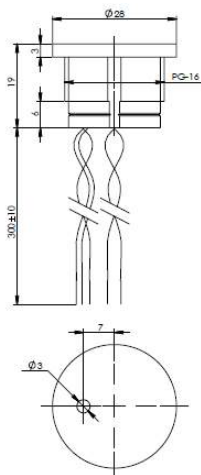
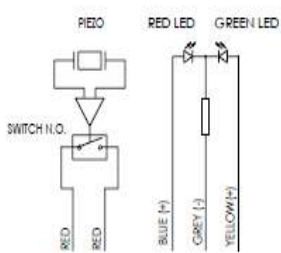
Operating voltage	1-24V AC/DC
Switching current	0.2A max
Actuation force	3-5N
Operating temperature	from -40°C to +125°C
Ingress Protection	IP68
Lifetime	50 million operations
'ON' resistance	<20Ω
'OFF' resistance	>5mΩ

CPS22IF-ALNA-24RG

CPS22IR-ALNA-24RG



PART NO.	DESCRIPTION
CPS22IF-ALNA-24RG	Flush
CPS22IR-ALNA-24RG	Recessed



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# CONTROL PRODUCTS

## Piezo Exit Switch

A vandal proof exit switch for users operating in harsh environment, high traffic areas

- Sealed in a rugged, weatherised stainless steel enclosure
- Vandal resistant, tamper resistant, weather and dust resistant to IP68
- Programmable 'door open' time, 'fail secure/fail safe' option selectable
- Green LED 'relay on' and red LED 'relay off' reversible
- 5 year guarantee

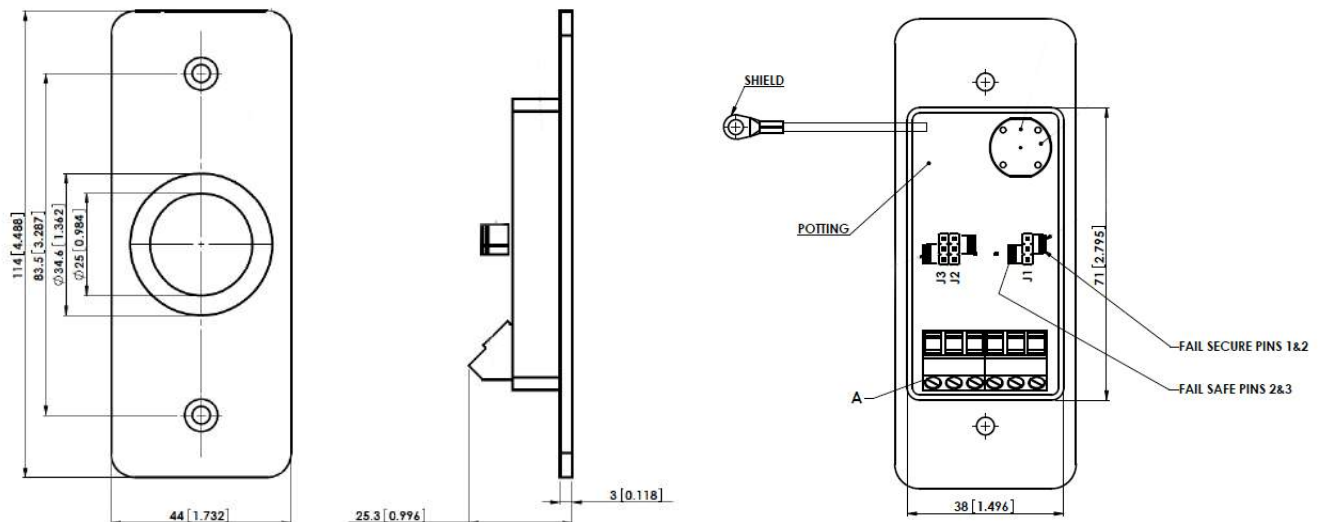
### SPECIFICATIONS

Input Voltage	12-24VDC
Switching current	1.5A Max
Actuation force	3-5N
Make impulse time	1 to 60 seconds
Operating temperature	-20°C to 70°C
Storage temperature	-40°C to 85°C
Ingress Protection	IP68
Electrical Lifetime	15 million operations
Current consumption	40mA idle, 80mA active

CPA-EXIT-SW



PART NO.	DESCRIPTION
CPA-EXIT-SW	Exit Switch



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# CONTROL PRODUCTS

## 3x4 Stand Alone Piezo Access Control Keypad

Single door, stand alone, self contained access control keypad using Piezo technology. Rugged, one piece construction.

- Integrated control electronics for management of access codes and door settings
- Integrated LED's and buzzer provide visual and audible feedback
- Vandal, tamper and weather resistant
- Water resistant to IP68
- Up to 200 user codes- 100 million combinations, 4-8 digits

CPA-ST-ALN

### SPECIFICATIONS

Material	Brushed aluminium
Power supply	8-24V AC/DC
Power consumption	max 150mA
Actuation Force	3-5N
Dimensions	81mm x 130mm
Operating temperature	from -20°C to +75°C
Ingress Protection	IP68

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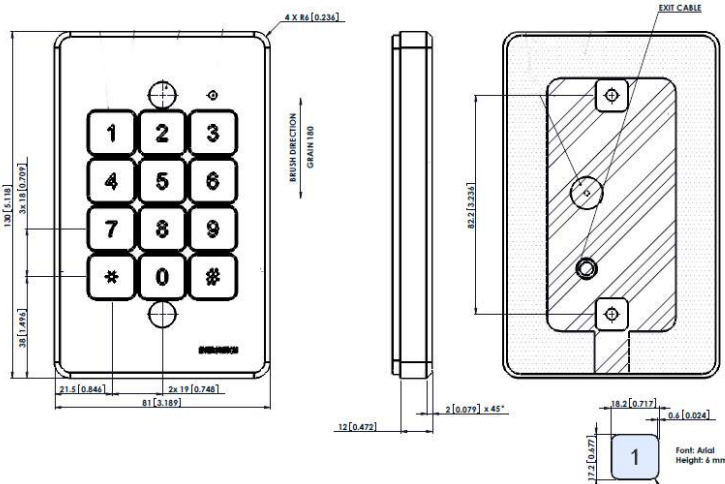
ENCLOSURES

BATTERIES

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PART NO.	DESCRIPTION
CPA-ST-ALN	Stand alone access control keypad



COLOR	FUNCTION	DESCRIPTION
BROWN	POWER SUPPLY	8-24V DC / AC
BLUE		
GREEN	EARTH	CONNECTED TO HOUSING
GREY	RELAY COMMON	Nominal Switching Capacity: 2A .30VDC
YELLOW	RELAY N.C.	
RED	RELAY N.O.	
WHITE & PINK	REMOTE OPENING DOOR	DRY CONTACT ONLY!



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# CONTROL PRODUCTS

## Piezo Keypads

High reliability and durability, ideal for use in tough environments.

- IP68 dust and water resistant, sea-water and detergent resistant
- No moving parts, maintenance free
- Made of one piece of solid aluminium, totally rugged
- Potted switching unit at rear seals against all contamination and prevents freezing

### SPECIFICATIONS

Operating voltage	1-24V DC
Switching current	0.2A max
Insulation resistance (off)	>5mΩ
Initial contact resistance (on)	<7.5Ω
Actuation force	3-5N
Operating temperature	from -40°C to +125°C
Ingress Protection	IP68
Electrical Lifetime	15 million operations

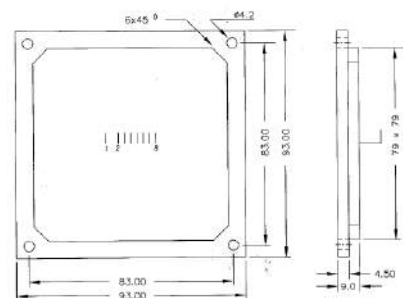
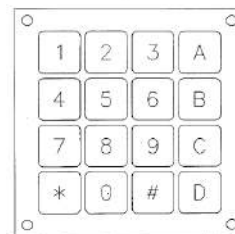
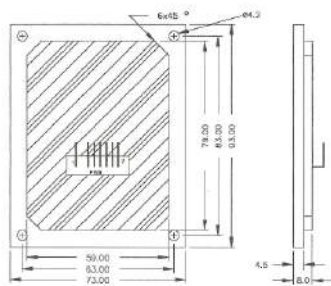
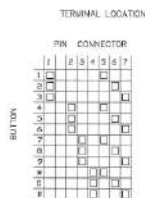
### PART NO. DESCRIPTION

CPKBA11-3X4	3x4 Keys
CPKBF11-4X4	4x4 Keys

CPKBA11-3X4



CPKBF11-4X4





# CONTROL PRODUCTS

## Anti-Vandal Proximity Reader

Anti vandal 125 KHz HID proximity reader providing the ultimate solution for users operating in harsh environment, high traffic areas.

- Sealed in a rugged, weatherised aluminium enclosure
- Vandal, tamper, weather and dust resistant to IP68
- Wiegand output model interfaces with all existing Wiegand protocol access control systems

CPA-PROX-RDR

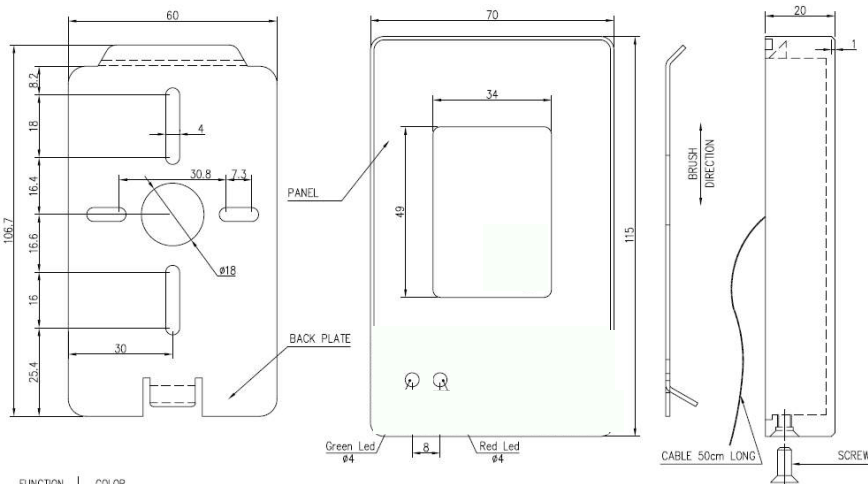


### SPECIFICATIONS

Material	Brushed aluminium
Output formats	Wiegand depending on card
Power supply	8 to 15 VDC
Power consumption	max 150mA
Transmitter/receiver frequency	125KHz HID card age reader
Operating temperature	-20°C to 75°C

### PART NO. DESCRIPTION

CPA-PROX-RDR	HID reader
--------------	------------



FUNCTION | COLOR

### Wiring

COLOR	FUNCTION	ELECTRICAL FUNCTION
RED	Input Voltage	8 to 15 VDC
BLACK	Ground	
GREEN	Data 0	Open collector 1Kohm pull-up to internal +5V
WHITE	Data 1	Open collector 1Kohm pull-up to internal +5V
BROWN	LED Input	No Voltage
VIOLET	Housing Ground	
ORANGE	Buffered Input	
GREY	Tamper Output	Open collector 0,100 A "Low" when light sensed

PCB  
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# CONTROL PRODUCTS

## Illuminated 2x6 Piezo Keypad and HID Proximity Reader

2x6 Piezo keypad combined with HID Proximity reader.

Mortice mounted, the rugged solid state reader offers the ultimate in strength and durability where a reader is required.

With solid one-piece brushed aluminium sealed casing, the reader is designed to function independently even in harsh climates or high risk, high traffic environments

- Vandal, tamper and weather resistant
- Water and dust resistant to IP68
- Up to 250 user codes, 100 million combinations. 4-8 digits

CPA-KPD-RDR

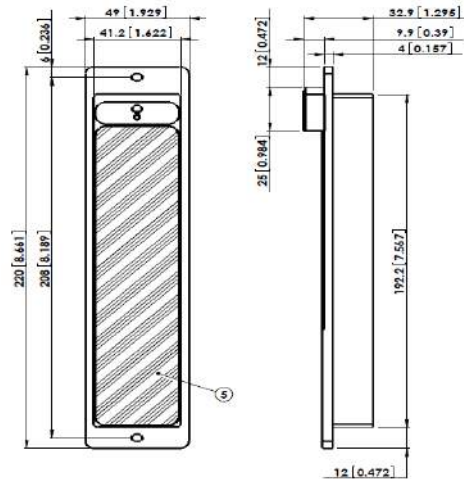


### SPECIFICATIONS

Material	Brushed aluminium
Power supply	8-24VDC
Power consumption	max 150mA
Communication	Wiegand 26/8 Bit
Transmitter/Receiver frequency	125KHz
Operating temperature	-20°C to 65°C
Ingress Protection	IP68

### PART NO. DESCRIPTION

CPA-KPD-RDR	Illuminated Piezo keypad and Reader
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# INTERFACE MODULES & SUPPORTS

## 1 Pole Relay Modules

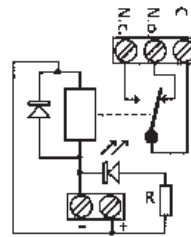
- Fits all standard DIN rail
- Option on connections screw terminal blocks or pluggable terminals
- Available with plug-in relay for easy replacement or the economy style with relay mounted direct onto the PCB

CIM/R1



### SPECIFICATION

Input operating voltage	24V DC
Operating power	0.5W
Contact configuration	1 changeover
Max switching voltage	250VAC
Max output current	5A
Max switching power	1250VA
Contact material	Ag
Conductor size	4mm <sup>2</sup>
LED colour	Green
Electrical life	100x10 <sup>3</sup> (at rated load)
Mechanical life	20x10 <sup>6</sup>
Width	82mm
Length	22.5mm
Projection	65mm with base 52mm without base



TYPE NO.	BASE OPTION	LENGTH
CIM/R1 -WB-S-24	with base	screw terminals
CIM/R1 -WO-S-24	without base	screw terminals
CIM/R1 -WB-C-24	with base	pluggable terminals (vertical mating)
CIM/R1 -WO-C-24	without base	pluggable terminals (vertical mating)

## 2, 4, 8, 16 Pole Relay Modules

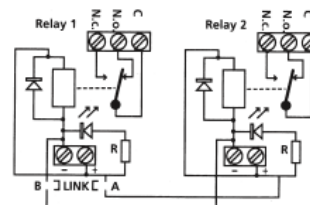
- 3 wiring options:  
The modules can operate as individual relays or by utilising shorting links, provide a common negative or positive or a combination of all these
- By shorting across  
A = Common Positive  
B = Common Negative

CIM/R2-16



### SPECIFICATION

Input operating voltage	24V DC
Operating power	0.5W
Contact configuration	1 changeover
Max switching voltage	250VAC
Max output current	5A
Max switching power	1250VA
Contact material	Ag
Conductor size	4mm <sup>2</sup> Max
LED colour	Green
Electrical life	100x10 <sup>3</sup> (at rated load)
Mechanical life	20x10 <sup>6</sup>
Width	82mm
Length	2 channels 45mm 4 channels 90mm 8 channels 169mm 16 channels 337mm



TYPE NO.	POLES	BASE OPTION	LENGTH
CIM/R2 -WB-S-24	2	with base	screw terminals
CIM/R2 -WO-S-24	2	without base	screw terminals
CIM/R2 -WB-C-24	2	with base	pluggable terminals (vertical mating)
CIM/R2 -WO-C-24	2	without base	pluggable terminals (vertical mating)
CIM/R4 -WB-S-24	4	with base	screw terminals
CIM/R4 -WO-S-24	4	without base	screw terminals
CIM/R4 -WB-C-24	4	with base	pluggable terminals (vertical mating)
CIM/R4 -WO-C-24	4	without base	pluggable terminals (vertical mating)
CIM/R8 -WB-S-24	8	with base	screw terminals
CIM/R8 -WO-S-24	8	without base	screw terminals
CIM/R8 -WB-C-24	8	with base	pluggable terminals (vertical mating)
CIM/R8 -WO-C-24	8	without base	pluggable terminals (vertical mating)
CIM/R16 -WB-S-24	16	with base	screw terminals
CIM/R16 -WO-S-24	16	without base	screw terminals
CIM/R16 -WB-C-24	16	with base	pluggable terminals (vertical mating)
CIM/R16 -WO-C-24	16	without base	pluggable terminals (vertical mating)

# INTERFACE MODULES & SUPPORTS

## I.D.C Interface Modules

- Low profile
- Cable acceptance of up to 4mm<sup>2</sup>
- 45° cable entry for easy access
- Ensures simple and speedy interfacing between data and field cables
- Custom interfaces available to order

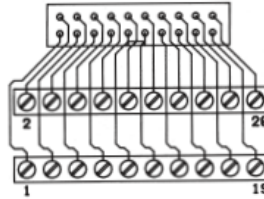
IDC



### SPECIFICATION

Voltage	50V DC max
Current	1A max
Connections	Screw terminal 45° Rising clamp 4mm <sup>2</sup> wire acceptance
Width	82mm all types
Length	10 pole 55mm 20 pole 55mm 26 pole 80mm 34 pole 90mm 40 pole 113mm 50 pole 134mm

TYPE NO.	POLES
CIM/10W-IDCS	10
CIM/20W-IDCS	20
CIM/26W-IDCS	26
CIM/34W-IDCS	34
CIM/40W-IDCS	40
CIM/50W-IDCS	50



## Subminiature 'D' Connector Modules

- Low profile
- Cable acceptance of up to 4mm<sup>2</sup>
- 45° cable entry for easy access
- Ensures simple and speedy interfacing between data and field cables
- Sub-miniature D male or female
- Custom interfaces available to order

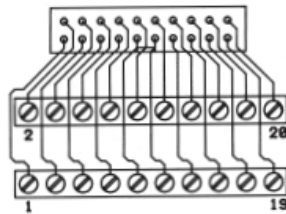
CIM/W-D



### SPECIFICATION

Voltage	50V DC max
Current	1A max
Connections	Screw terminal 45° Rising clamp 4mm <sup>2</sup> wire acceptance
Width	82mm all types
Length	9 way 34mm 15 way 57mm 25 way 80mm 37 way 113mm
Earth	The metal surround of the D is used and taken to connector terminal

TYPE NO.	WAYS	D CONNECTOR
CIM/9W-DMS	9	Male 'D'
CIM/15W-DMS	15	Male 'D'
CIM/25W-DMS	25	Male 'D'
CIM/37W-DMS	37	Male 'D'
CIM/9W-DFS	9	Female 'D'
CIM/15W-DFS	15	Female 'D'
CIM/25W-DFS	25	Female 'D'
CIM/37W-DFS	37	Female 'D'



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# INTERFACE MODULES & SUPPORTS

## Diode Module and Component Modules

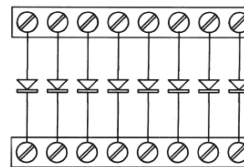
- Protects against return voltage to circuits
- Low profile
- 45° cable entry for easy access
- Available also as a component carrier
- Custom interfaces available to order

CIM/8W



### SPECIFICATION

Voltage	250V DC max
Current	1A max
Characteristics of IN4007	1000V Peak 250V 1Amp
Width	82mm
Length	45mm



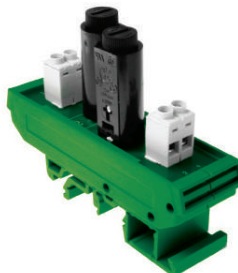
TYPE CIM/8W-D10

TYPE NO.	POLES
CIM/8W-D10	Diode module
CIM/8W-COMP	without diodes component carrier

## Fuse Modules

- Available with either screw terminal blocks or pluggable terminals
- Available with LED indication
- Custom interfaces available to order
- approved fuseholder

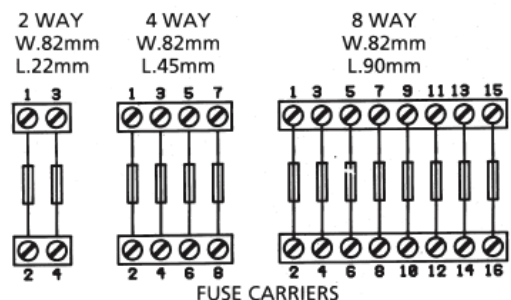
CIM/2WFU



### SPECIFICATION

Voltage	250V AC max
Fuse	Current max per fuse 3A, max total 6.3A
Fuse size	20x5mm full range available
Fuseholders	Screwdriver release, boyonet cap
Terminations	Rising clamp 4mm <sup>2</sup> wire acceptance
Width	82mm all types
Length	2 way 22mm 4 way 45mm 8 way 45mm

TYPE NO.	FUSES	TERMINAL
CIM/2WFU-S	2	screw terminals
CIM/2WFU-C	2	pluggable terminals (vertical mating)
CIM/4WFU-S	4	screw terminals
CIM/4WFU-C	4	pluggable terminals (vertical mating)
CIM/8WFU-S	8	screw terminals
CIM/8WFU-C	8	pluggable terminals (vertical mating)





# INTERFACE MODULES & SUPPORTS

## Opto-Isolator Interface

- Four independent isolated channels
- Plug-in vertical terminal blocks
- On board LED for input check
- DC polarity insensitive
- Floating 300VDC/150mA Darlingtons transistors
- For pull-down, isolation & noise-reduction, machine logic voltage shifter or drive panel LED indicator applications
- Low output current sufficient for medium-sized relays
- Sufficient current at low output voltages for medium size relays
- AC or DC input selector by jumper



TYPE NO.	DESCRIPTION
CIM/Opto4	4 channel opto isolator

SPECIFICATION		
Input	DC	24-400V
	AC	24-265V
Output	DC	300VDC/150mA max power 150mW
	AC	2kVAC
Input-output isolation		2kVAC
Cable entry		2.5mm <sup>2</sup>

PCB  
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# INTERFACE MODULES & SUPPORTS

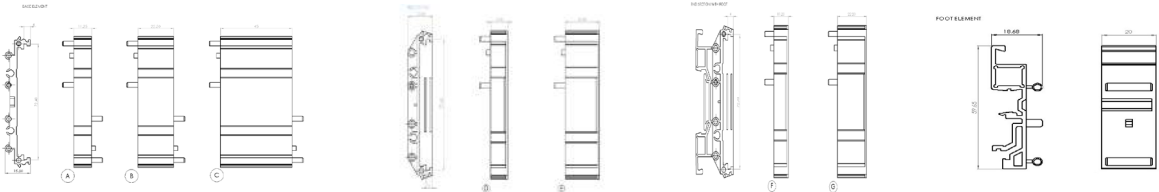
## Mini Series 72mm Empty Modular Interface Supports

- Suitable for 72mm width PCB's
- Modular Construction for easy Assembly
- Snap fit Din Rail mounting fixtures
- Moulded in green UL 94V0 flame retardant PA
- Wall mounting kit option
- Terminal blocks available in same colour
- Integral marker facility
- Registered Design No: 2106418®
- Also available in different colours
- End section foot for top hat DIN rail

CIME/M



TYPE NO.	DESCRIPTION	WIDTH
CIME/M/BE1125SS	Base element	11.25mm
CIME/M/BE2250SS	Base element	22.5mm
CIME/M/BE4500SS	Base element	45.0mm
CIME/M/SE1125SS	End Section	11.25mm
CIME/M/SE2250SS	End Section	22.5mm
CIME/M/SEF1125SS	End Section with foot	11.25mm
CIME/M/SEF2250S	End Section with foot	22.5mm
CIME/M/FE0000SS	Foot element	



CIME/M	END SECTION		BASE ELEMENTS			PART COUNT
	SEF1125SS	SEF2250SS	BE1125SS	BE2250SS	BE4500SS	
<b>TOTAL PCB LENGTH</b>	<b>10mm</b>	<b>21.25mm</b>	<b>11.25mm</b>	<b>22.5mm</b>	<b>45.0mm</b>	
20mm	2					2
31.25mm	1	1				2
42.5mm		2				2
53.75mm		2	1			3
65mm		2		1		3
76.25mm	1	1			1	3
87.5mm		2			1	3
98.75mm		2	1		1	4
110mm		2		1	1	4
121.25mm	1	1			2	4
132.5mm		2			2	4
143.75mm		2	1		2	5
155mm		2		1	2	5
166.25mm	1	1			3	5
177.5mm		2			3	5

The Table above shows how, for a given PCB Length, modules can be selected to make an interface support

### Wall Mounting Plates

- Flush and raised surface mounting plates
- Press into sides of end section without tool
- Use foot element on long lengths with raised plates

TYPE NO	STYLE
CIME/M/MPF	Flush
CIME/M/MPR	Raised



# INTERFACE MODULES & SUPPORTS

## Mini Series 72mm Empty Extruded Interface Support

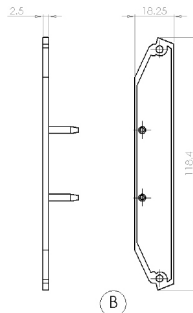
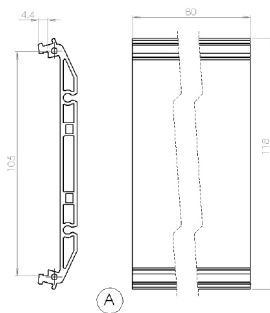
- Suitable for 72mm width PCB's
- Snap fit Din Rail mounting fixtures
- Available in pre-cut lengths up to 2 metres
- Terminal blocks available in same colour

CIME/M/E

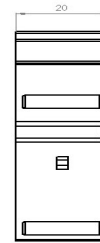
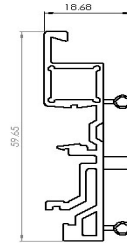


TYPE NO.	DESCRIPTION
CIME/M/BE2000E	2m Extruded base element
CIME/M/EC0000E	End cover
CIME/M/SCREWE	Fixing screws for end covers
CIME/M/FE0000E	Foot element

CIME-M-E



FOOTELEMENT



### Complete Modules

- Cut to length base element
- One end & feet supplied pre-assembled
- One end & screws supplied loose

LENGTH	NO. OF FEET
16-50mm	1
51-150mm	2
151-300mm	3
301-500mm	4
501-750mm	5
751-999mm	6

TYPE NO.	DESCRIPTION
CIM72/xxxx/E	Complete module
xxxx = PCB length required minus 4mm e.g. CIM107/126/E for complete module PCB length 130	

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# INTERFACE MODULES & SUPPORTS

## Euro series 107mm Empty Modular Interface Support

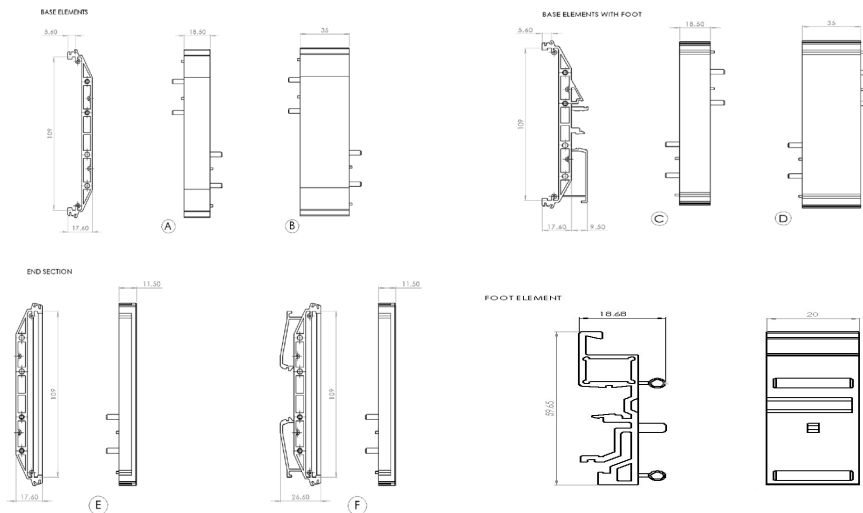
- Suitable for 107mm width PCB's
- Modular Construction for easy assembly
- Snap fit Din Rail mounting fixtures
- Moulded in green UL 94V0 flame retardant PA
- Terminal blocks available in same colour
- Integral marker facility
- Integral Din rail mounting clip



PCB LENGTH	END SECTION	BASE ELEMENT		PART COUNT
		11.5mm	18.5mm	
20mm	2			2
38.5mm	2		1	3
55mm	2			1
73.5mm	2	1	1	4
90mm	2		2	4
108.5mm	2	1	2	5
125mm	2		3	5
143.5mm	2	1	3	6
160mm	2		4	6
178.5mm	2	1	4	7
195mm	2		5	7
213.5mm	2	1	5	8
230mm	2		6	8
248.5mm	2	1	6	9
265mm	2		7	9

TYPE NO.	DESCRIPTION	WIDTH
CIME/E/BE1850S	Base element	18.5mm
CIME/E/BE3500S	Base element	35mm
CIME/E/BEF1850S	Base element with foot	18.5mm
CIME/E/BEF3500S	Base element with foot	35mm
CIME/E/SE1000S	End Section	11.5mm
CIME/E/SEF1000S	End Section with foot	11.5mm

The Table above shows how, for a given PCB Length, modules can be selected to make an interface support



### Wall Mounting Plates

- Flush and raised surface mounting plates
- Press into sides of end section without tool
- Use foot element on long lengths with raised plates

TYPE NO	STYLE
CIME/E/MPF	Flush
CIME/E/MPR	Raised



# INTERFACE MODULES & SUPPORTS

## Euro series 107mm Empty Extruded Interface Support

- Suitable for 107mm width PCB's
- Snap fit Din Rail mounting fixtures
- Available in pre-cut lengths up to 2 metres
- Terminal blocks available in same colour



CIME/E/E

TYPE NO.	DESCRIPTION
CIME/E/BE2000E	2m Extruded base element
CIME/E/EC0000E	End cover
CIME/E/SCREWE	Fixing screws for end covers
CIME/E/FE0000E	Foot element

### Complete Modules

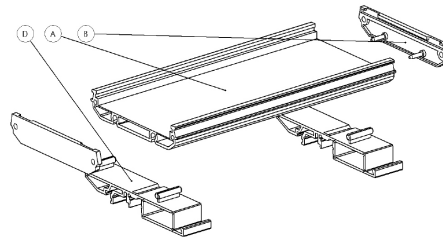
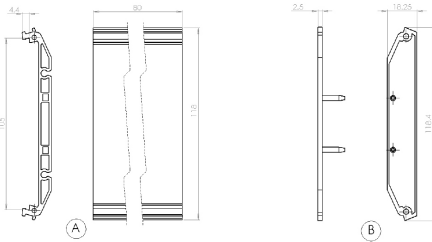
- Cut to length base element
- One end & feet supplied pre-assembled
- One end & screws supplied loose

LENGTH	NO. OF FEET
16-50mm	1
51-150mm	2
151-300mm	3
301-500mm	4
501-750mm	5
751-999mm	6

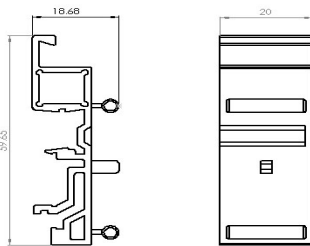
TYPE NO.	DESCRIPTION
CIM107/xxxx/E	Complete module

xxxx = PCB length required minus 4mm  
e.g. CIM107/126/E  
for complete module PCB length 130

CIME-E-E



FOOT ELEMENT



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# INTERFACE MODULES & SUPPORTS

## USB A Interface Module

- Single USB A type socket to screw terminals **CIM/USBA**

- Terminals marked +5V, D-, D+ and GND

- Separate shield connection

- 35mm DIN rail mounting

- Option for 32mm (G) rail mounting

- Available with optional wall mounting plates

- 45° terminals for easy access

- RoHS compliant

- SVHC free (2012)



### SPECIFICATION

Rating	30V DC 100mA		
Cable entry	0.2-4mm <sup>2</sup> (30-12 AWG)		
Terminal screw	M3		
Strip length	6mm (0.24")		
Max terminal torque	0.5Nm (4lb-in)		
Dimensions:	Height:	Width:	Length:
CIM/USBA	44mm (1.73")	83mm (3.27")	26mm (1.02")

### TYPE NO. DESCRIPTION

CIM/USBA	USB A to screw terminal interface. 35 mm din rail mounting
----------	--

## USB B Interface Module

- Single USB B type socket to screw terminals **CIM/USBB**

- Terminals marked +5V, D-, D+ and GND

- Separate shield connection

- 35mm DIN rail mounting

- Option for 32mm (G) rail mounting

- Available with optional wall mounting plates

- 45° terminals for easy access

- RoHS compliant

- SVHC free (2012)



### SPECIFICATION

Rating	30V DC 100mA		
Cable entry	0.2-4mm <sup>2</sup> (30-12 AWG)		
Terminal screw	M3		
Strip length	6mm (0.24")		
Max terminal torque	0.5Nm (4lb-in)		
Dimensions:	Height:	Width:	Length:
CIM/USBB	41mm (1.61")	83mm (3.27")	26mm (1.02")

### TYPE NO. DESCRIPTION

CIM/USBB	USB B to screw terminal interface. 35 mm din rail mounting
----------	--

# INTERFACE MODULES & SUPPORTS

## RJ45 Interface Module

- Single RJ45 (8P8C) type socket to screw terminals
- Terminals marked 1 to 8 (+ Shield)
- Separate shield connection
- 35mm DIN rail mounting
- Option for 32mm (G) rail mounting
- Available with optional wall mounting plates
- 45° terminals for easy access
- RoHS compliant
- SVHC free (2012)

CIM/RJ45



### SPECIFICATION

Rating	125V DC 500mA		
Cable entry	0.2-4m <sup>2</sup> (30-12 AWG)		
Terminal screw	M3		
Strip length	6mm (0.24")		
Max terminal torque	0.5Nm (4lb-in)		
Dimensions:	Height	Width	Length
	45mm (1.77")	83mm (3.27")	34mm (1.02")

TYPE NO.	DESCRIPTION
CIM/RJ45	RJ45 to screw terminal interface. 35 mm din rail mounting

## RJ45 Coupler

This module provides a quick and compact method of connecting two RJ45 (8P8C) type cables.

- Two RJ45 (8P8C) type shielded sockets
- Connected pin to pin (1 to 1, 2 to 2 etc)
- 35mm DIN rail mounting
- Option for 32mm (G) rail mounting
- Reverse tab sockets for ease of cable release
- Available with optional wall mounting plates
- RoHS compliant
- SVHC free (2013)
- CE approved

CIM/2RJ45C



### SPECIFICATION

Rating	50V DC 500mA		
Dimensions:	Height:	Width:	Length:
	42mm (1.66")	83mm (3.27")	23mm (0.91")

TYPE NO.	DESCRIPTION
CIM/2RJ45C	RJ45 to RJ45 coupler. 35 mm din rail mounting

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# INTERFACE MODULES & SUPPORTS

## Multiple IDC Interface Modules

- Three IDC dual row headers to screw terminals

- Long ejector latches for strain relief sockets

- 35mm DIN rail mounting

- Option for 32mm (G) rail mounting

- Available with optional wall mounting plates

- 45° terminals for easy access

- RoHS compliant

- SVHC free (2012)



### SPECIFICATION

Rating	50V DC 100mA		
Cable entry	0.2-4mm <sup>2</sup> (30-12 AWG)		
Terminal screw	M3		
Strip length	6mm (0.24")		
Max terminal torque	0.5Nm (4lb-in)		
Dimensions:	Height:	Width:	Length:
CIM/101416W-IDCS	56mm (2.20")	83mm (3.27")	46mm (1.81")
CIM/202426W-IDCS	56mm (2.20")	83mm (3.27")	80mm (3.15")
CIM/303440W-IDCS	56mm (2.20")	83mm (3.27")	114mm (4.49")
CIM/506064W-IDCS	56mm (2.20")	83mm (3.27")	170mm (6.69")

TYPE NO.	DESCRIPTION
CIM/101416W-IDCS	10, 14 and 16 way IDC to screw terminal interface. 35 mm din rail mount
CIM/202426W-IDCS	20, 24 and 26 way IDC to screw terminal interface. 35 mm din rail mount
CIM/303440W-IDCS	30, 34 and 40 way IDC to screw terminal interface. 35 mm din rail mount
CIM/506064W-IDCS	50, 60 and 64 way IDC to screw terminal interface. 35 mm din rail mount

# INTERFACE MODULES & SUPPORTS

## Male and Female D-Connector Interface Modules

- D Sub male and female to screw terminals
- Terminals marked 1 2 3 etc (+ Shield)
- Separate shield connection
- 35mm DIN rail mounting
- Option for 32mm (G) rail mounting
- Available with optional wall mounting plates
- 45° terminals for easy access
- RoHS compliant
- SVHC free (2012)

CIM/XXW-DMFS



### SPECIFICATION

Rating	50V DC 100mA		
Cable entry	0.2-4mm <sup>2</sup> (30-12 AWG)		
Terminal screw	M3		
Strip length	6mm (0.24")		
Max terminal torque	0.5Nm (4lb-in)		
Dimensions:	Height:	Width:	Length:
CIM/9W-DMFS	39mm (1.54")	83mm (3.27")	35mm (1.38")
CIM/15W-DMFS	39mm (1.54")	83mm (3.27")	58mm (2.28")
CIM/25W-DMFS	39mm (1.54")	83mm (3.27")	78mm (3.07")
CIM/37W-DMFS	39mm (1.54")	83mm (3.27")	114mm (4.49")
CIM/50W-DMFS	37mm (1.46")	83mm (3.27")	136mm (5.36")

TYPE NO.	DESCRIPTION
CIM/9W-DMFS	9 way male and female D Sub screw terminal interface. 35 mm din rail mounting
CIM/15W-DMFS	15 way male and female D Sub screw terminal interface. 35 mm din rail mounting
CIM/25W-DMFS	25 way male and female D Sub screw terminal interface. 35 mm din rail mounting
CIM/37W-DMFS	37 way male and female D Sub screw terminal interface. 35 mm din rail mounting
CIM/50W-DMFS	50 way male and female D Sub screw terminal interface. 35 mm din rail mounting

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# RELAY BASES

## Compact 8-11 Pin Commercial Relay Bases

- DIN rail (EN50022) or chassis screw mounting
- Screw driver release DIN clip
- Rising saddle terminals for ease of wire insertion
- Accepts fork, ferule and ring terminals (ring non IP20 only)
- 2 x 2.5mm<sup>2</sup> cable acceptance
- 2x1.5mm<sup>2</sup> bootlace crimp
- IP20 finger protection types
- Relay retaining clip accessory
- Tubular contacts for reliability
- Terminal numbering to DIN 46199
- G rail adaptor available
-  CE approved

CS113A



CS083AN



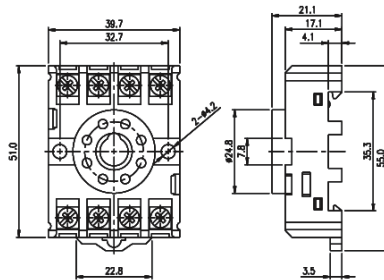
### SPECIFICATION

Rating	10A/250VAC
Dielectric Strength	>2kV
Working temperature	-25°C to 55°C
Insulation resistance	1,000MΩ/500VDC
Moulding	UL94-V0 PA66
Contacts	Phosphor bronze, tin-plated <3µm
Screws	Low carbon steel, lower layer copper plating <2µm, surface layer nickel plating <3µm
Terminal Screw torque	0.7Nm max
Insertion Force	100N max

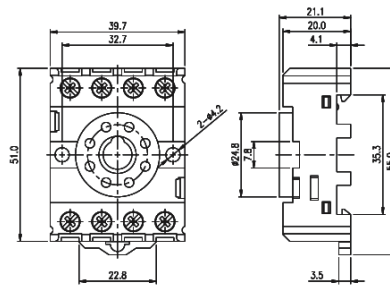
### TYPE NO. DESCRIPTION

CS083A	8-pin open
CS083AN	8-pin IP20 finger protection
CS113A	11-pin open
CS113AN	11-pin IP20 finger protection
CSC03	Retaining Clip

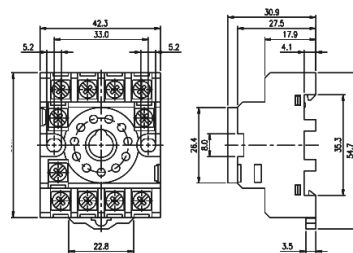
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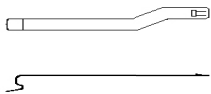
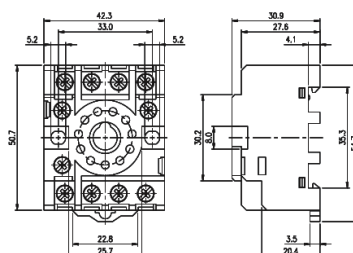
CS083AN



CS113A



CS113AN



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# RELAY BASES

## Compact 8-11 Pin Relay Bases

- Compact 8 and 11 pin versions
- Finger proof to IP20
- Din Rail (EN50022) or chassis mounting
- Rising clamp terminals captive screws
- 2 x 2.5mm<sup>2</sup> wire acceptance
- Common wiring terminal on CRBS9 and CRBS12
- Dual terminal numbering to IEC 67 & DIN 46 199
- Protection modules available for CRBS9 & CRBS12
- G rail adaptor available
-  CE approved

CRBS8



CRBS11

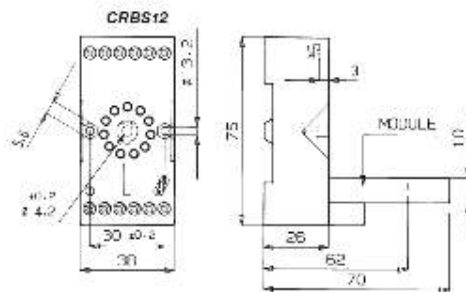
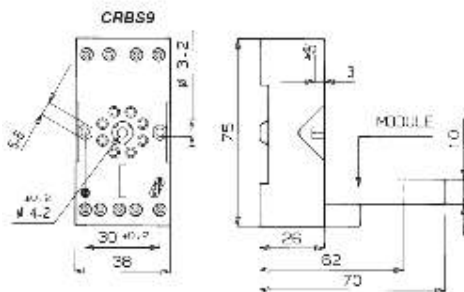
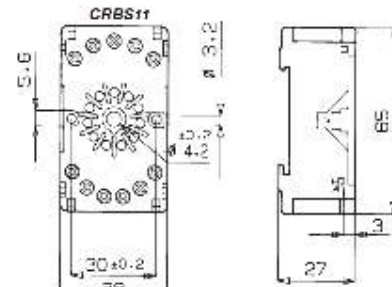
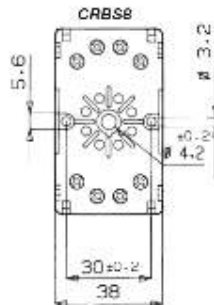
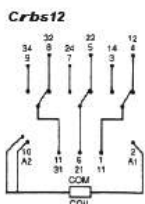
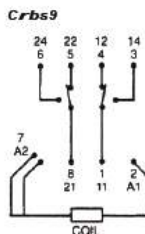
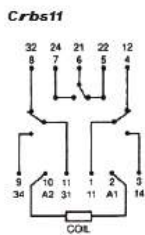
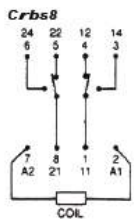


### SPECIFICATION

Rating	10A/400VAC
Dielectric strength	>3kV
Temperature max working	85°C
Moulding	UL94-V1 self extinguishing glass filled
Contacts	6µ nickel plated brass
screws	Nickel plated steel M3 combination head

### TYPE NO. DESCRIPTION


CRBS8	8-pin
CRBS11	11-pin
CSC19	Retaining Clip
CRBS9	8 pin + common
CRBS12	12 pin + common



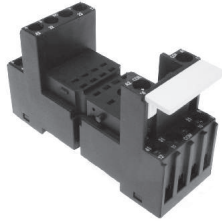


# RELAY BASES

## Compact Industrial Relay Bases

- DIN rail (EN50022)
- Finger proof to IP20
- Rising clamp terminals
- Status indicator/protection module option
- Module only removable when relay removed
- Marking tab supplied with base
- Dual terminal numbering to IEC 67 & DIN 46199
- Ejector clip available
- Logical wiring on /S series
- G rail adaptor available
-  CE approved

CRBS15



### SPECIFICATION

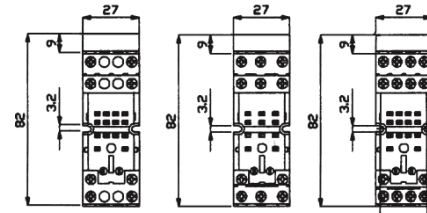
Rating	12A/300VAC
Dielectric strength	>3kV
Index of protection	IP20
Temperature, working	-40°C to +85°C
Moulding	UL94-V1 self extinguishing glass filled PA6
Contacts	6µ nickel plated brass
Screws	Nickel plated steel M3 combination head

TYPE NO.	DESCRIPTION
CRBS15/2N	2 pole 8 pin
CRCMS35	Ejector clip
CRBS15/4B	4 pole 14 pin
CRBS15/3N	3 pole 11 pin

CRBS15/2N

CRBS15/3N

CRBS15/4N



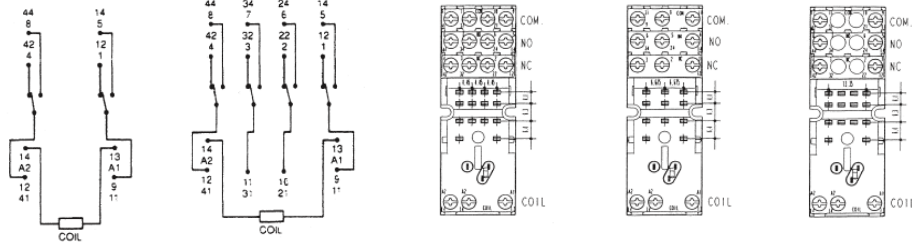
CRBS15/4N

CRBS15/2N

CRBS15/4S

CRBS15/3S

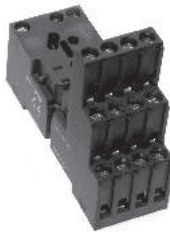
CRBS15/2S



## CRBS15/S

TYPE NO.	DESCRIPTION
CRBS15/2S	2 pole 8 pin
CRBS15/3S	3 pole 11 pin
CRBS15/4S	4 pole 14 pin
CRCMS35	Ejector clip

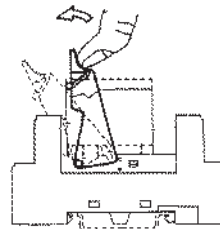
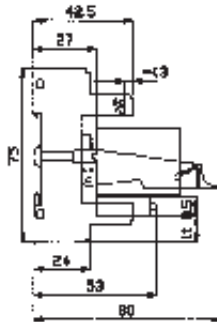
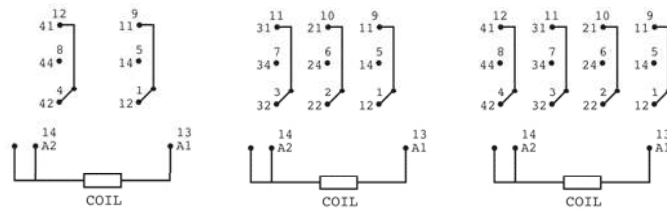
CRBS15/S



CRBS15/2S

CRBS15/3S

CRBS15/4S



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TRANS-  
FORMERS

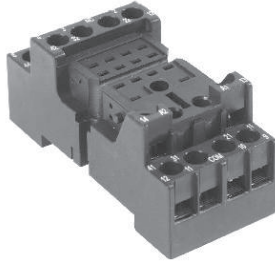


# RELAY BASES

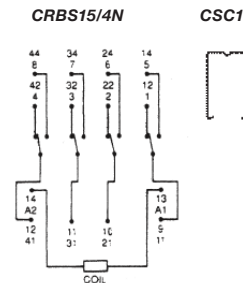
## 14 Pin 4 Pole Compact Industrial Relay Bases

- Din rail (EN50022) or chassis mounting
- Finger proof to IP20
- Rising clamp captive screws terminals
- Module only removable when relay removed
- Adjustable retaining clip
- Marking tab
- Dual terminal numbering to IEC 67 & DIN 46199
- 3 clip height positions
- G rail adaptor available
-  CE approved

CRBS15/4N



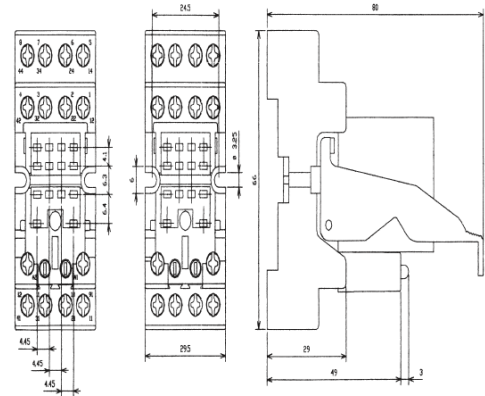
TYPE NO.	DESCRIPTION
CRBS15/4N	Relay Base
CSC1	Retaining clip
CRCMS35	Ejector clip




### SPECIFICATION

Rating	10A/300VAC
Dielectric strength	>3kV
Index of protection	IP20B (EN 605229)
Temperature, working	100°C
Moulding	UL94-V1 self extinguishing glass filled PA6
Contacts	6µ nickel plated brass
Screws	Nickel plated steel M3 combination head

CRBS15/4N



## 1 & 2 Pole DIN Mounting Relay Bases

- Compact 1 and 2 pole versions
- Din rail mounted (EN50022) or chassis mounting
- Rising clamp captive screw terminals
- 2 x 2.5mm<sup>2</sup> wire acceptance (14AWG)
- Unique relay release lever, three sizes to suit most popular relays
- Marking tag supplied
- G rail adaptor available
-  CE approved

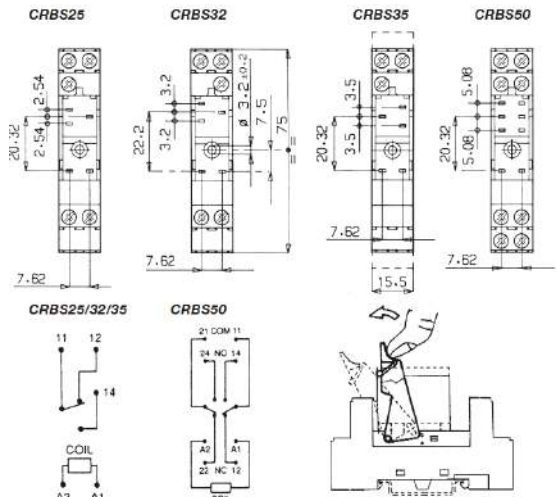
CRBS



TYPE NO.	DESCRIPTION
CRBS25	2.54mm
CRBS32	3.2mm
CRBS35	3.5mm
CRBS50	5.08mm
CRCMS12	12mm clip
CRCMS16	16mm clip
CRCMS25	25mm clip


### SPECIFICATION

Rating	12A/300VAC
Dielectric strength	>3kV
Temperature, working	85°C
Moulding	UL94-V1 self extinguishing glass filled PA6
Contacts	6µ nickel plated brass
Screws	Nickel plated steel M3 combination head

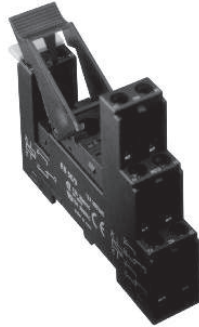


# RELAY BASES

## DIN Rail Mount Logical Wiring Relay Bases

- Compact 1 or 2 pole
- 'Safety' Isolation between coil & Contacts
- Din rail (EN50022) or chassis mounting
- Rising clamp captive screw terminal
- 2 x 2.5mm wire acceptance (14AWG)
- Unique relay release lever, three sizes to suit popular relays
- Marking tag
- G rail adaptor available
-  , CE approved

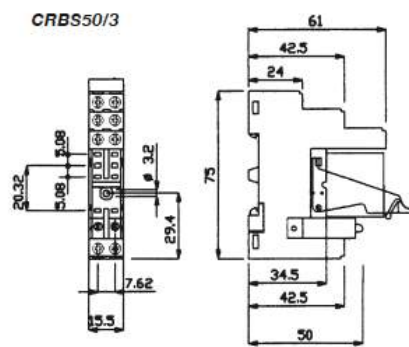
CRBS50/3



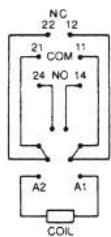
TYPE NO.	DESCRIPTION
CRBS50/3	2 pole
CRBS50/3S	2 pole logical wiring
CRBS35/3S	1 pole
CRCMS12	12mm clip
CRCMS16	16mm clip
CRCMS25	25mm clip

### SPECIFICATION

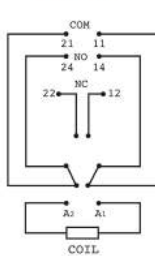
Rating	12A/300VAC
Dielectric strength	>3kV
Temperature, working	85°C
Moulding	UL94-V1 self extinguishing glass filled PA6
Contacts	6µ nickel plated brass
Screws	Nickel plated steel M3 combination head



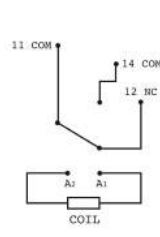
CRBS50/3



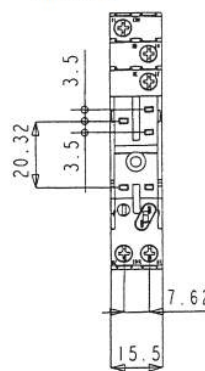
CRBS50/3S



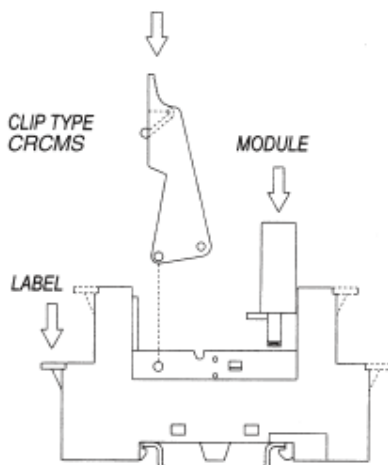
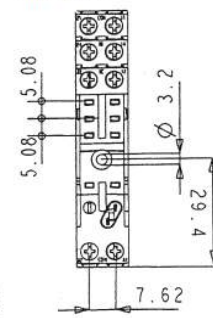
CRBS35/3S



CRBS35/3S



CRBS50/3S



PCB  
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PRODUCTS

INTERFACE  
MODULES &  
SUPPORTS

RELAY  
BASES

ENCLOSURES

BATTERIES

TRANS-  
FORMERS



# RELAY BASES

## 1 & 2 Pole PCB Mounting Relay Bases

- Compact 1 or 2 pole versions
- PCB mounting
- 2.54-5.08mm x 7.62mm pitch
- 3 sizes of fixing clip to suit popular relay sizes in metal and plastic

CRBC

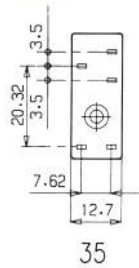


### SPECIFICATION

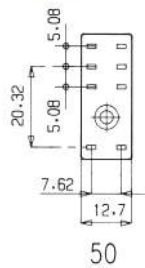
Rating	10A/300VAC
Dielectric strength	>5kV
Moulding	UL94-V1 self extinguishing glass filled PA6
Contacts	6μ nickel plated brass

TYPE NO.	POLES	SIZE
CRBC25	1	2.5mm
CRBC32	1	3.2mm
CRBC35	1	3.5mm
CRBC50	2	5.08mm
CRBC5	1	5.04mm
CRCMH16-2		Metal
CRCMH20-2		Metal
CRCMH25-2		Metal
CRCMP12-2		Plastic
CRCMP16-2		Plastic

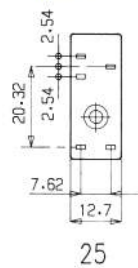
CRBC35



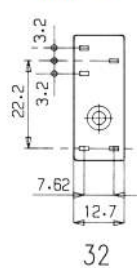
CRBC50



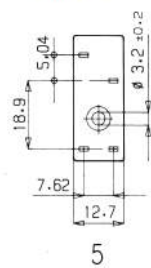
CRBC25




CRBC32



CRBC5



## 2 Pole PCB Mounting Commercial Relay Bases

- 5.0mmx7.5mm pitch
- PCB mounting
- Anti solder wicking pins
- Solid pins for improved solderability
- Metal clip in 3 heights to order
-  approved

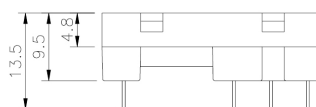
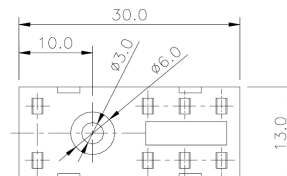
C2S080



### SPECIFICATION

Rating	12A/250VAC
Dielectric strength	>2.5kV
Working temperature	-25°C +70°C
Moulding	UL94-V1 self extinguishing glass filled PPO
Contacts	6μ tin plated brass
Insertion force	100N max

TYPE NO.	DESCRIPTION
C2S080	2 pole base



# RELAY BASES

## DIN Rail Adapter

A one piece adapter which allows enclosures, relay bases etc. Designed for use on standard Top Hat DIN rails to be used in G-section and Mini Top Hat Din rails.

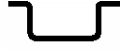
- Snap fit DIN Rail mounting fixtures
- Flame retardant UL-95V0
- Symmetrical (35mm)
- Asymmetrical (G rail)
- Mini symmetrical (15mm)

CDR/Adapter



TYPE NO.	DESCRIPTION
CDR/Adapter	DIN Rail Adapter

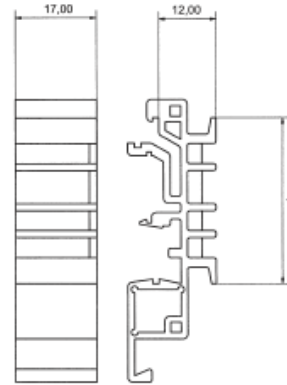
Mini Top Hat 15mm



Standard Top Hat 35mm



G Section 32mm



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# ENCLOSURES

## DIN Rail Standard Height Module Boxes

- Snap fit modular design for ease of assembly and custom kitting
- Base fits 35mm DIN rail or directly to flat surface
- Moulded in light grey UL94-V0 flame retardant polycarbonate
- Carries up to 3 PCBs horizontally or 2 vertically
- Snap fit terminal cover options for IP20 finger protection
- Snap in covers available in grey, clear, transparent red and smoked
- Standard enclosure consists of base, top and rail/wall clips
- Open top as standard, solid top, vented and extended wall options available
- Covers and terminal guards ordered separately and can be supplied in kits
- Easily customised covers and terminal guards
- Enclosed base offers isolation from DIN rail
- Front panel ideal for screen printing and recessed solid top for labels and membranes
- Other colours and EMC shielding available to order

CNMB



	BOX LENGTH	HORIZONTAL PCB SIZES			VERTICAL PCB SIZES		PCB FIXING BOSS	
		A	B	C	D	E	X	Y
CNMB/1-	17.5mm	86.5x14mm	57x14mm	41.8x14mm	34x59.6mm	40x14.8mm	6.2mm	18.3mm
CNMB/2-	36mm	86.5x33mm	57x32mm	42x32mm	34x59.6mm	40x33mm	6.2mm	18.3mm
CNMB/3-	53mm	86.5x50mm	57x49mm	42x49mm	34x59.6mm	40x50mm	8.8mm	18.3mm
CNMB/4-	71mm	86.5x68mm	57x67mm	42x67mm	34x59.6mm	40x68mm	8.8mm	18.3mm
CNMB/5-	88mm	86.5x84mm	57x83mm	42x83mm	34x59.6mm	40x84mm	8.8mm	18.3mm
CNMB/6-	106mm	86.5x103mm	57x102mm	42x102mm	34x59.6mm	40x103mm	8.9mm	18.3mm
CNMB/9-	159mm	86.5x156mm	57x155.5mm	42x155mm	34x59.6mm	40x155mm	8.9mm	18.3mm
CNMB/12-	212mm	86.5x208mm	57x207mm	42x207mm	34x59.6mm	40x208mm	8.9mm	18.3mm

For double row terminals covers both sides, add /2 to type No. (e.g. CNMB/3/2)

For single row terminals cover one side only, add /1 to type No. (e.g. CNMB/3/1)

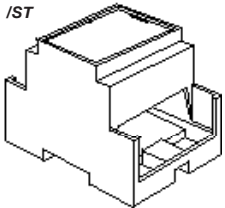
Box supplied with open top as standard

For solid recessed top used for membrane keypads or clear covers to enclose labels, add /ST to type No. (e.g. CNMB/3ST/2)

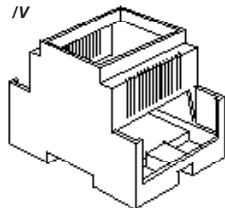
For cooling vents both sides add /V to type No. (e.g. CNMB/3/V/2)

For extended side walls which meet the lower PCB behind terminals, add /W to type No. (e.g. CNMB/3W/2)

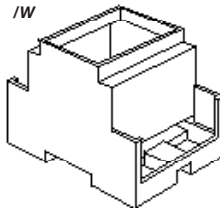
Solid top  
/ST



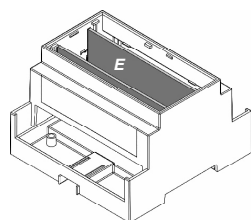
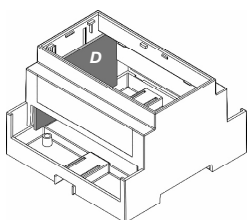
Vented Sides  
/V



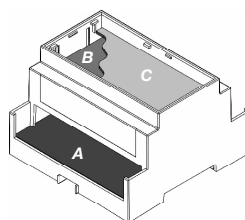
Extended Walls  
/W



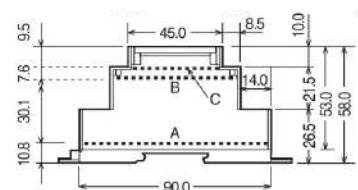
Vertical PCB Positions



Horizontal PCB Positions



Horizontal PCB Sizes



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MODULES &  
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RELAY  
BASES

ENCLOSURES

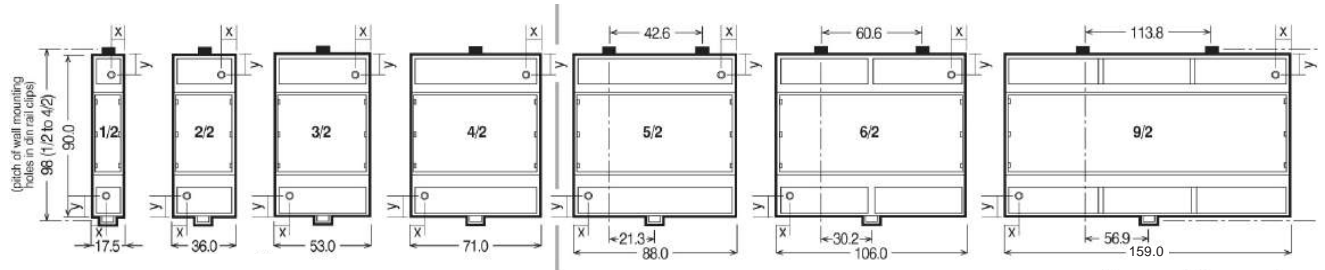
BATTERIES

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FORMERS

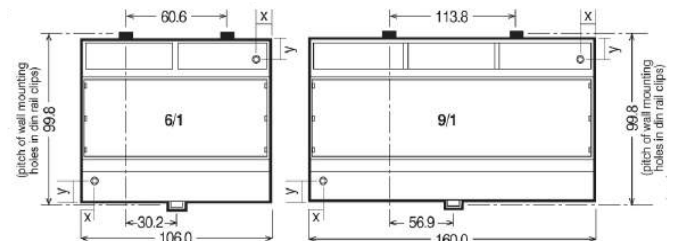
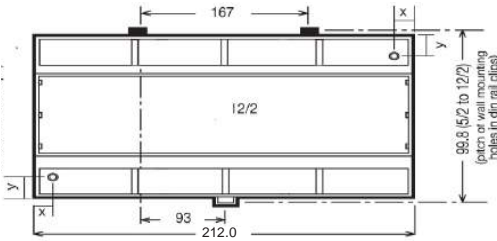


# ENCLOSURES

Double Row Terminals/ covers both sides



Single Row Terminals/ covers on one side

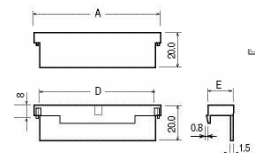
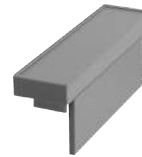


## Terminal Guards Solid

TYPE NO.	STYLE	A	D	E
CNMB/1/TGS	Solid	17.5mm	15.0mm	14.3mm
CNMB/2/TGS	Solid	35.5mm	29.9mm	13.8mm
CNMB/3/TGS	Solid	52.8mm	45.5mm	13.8mm
CNMB/4/TGS	Solid	70.6mm	59.9mm	13.8mm
CNMB/5/TGS	Solid	87.6mm	79.5mm	13.8mm

\*For 6, 9 & 12 Size Module Use CNMB/3/TGS

CNMB/ ITGS

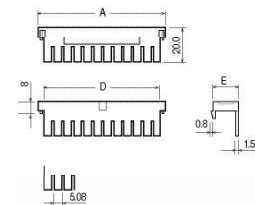
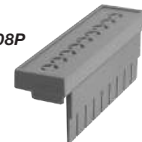


## 5.08mm pitch perforated

TYPE NO.	STYLE	A	D	E
CNMB/1/ITG508P	Solid	17.5mm	15.0mm	14.3mm
CNMB/2/ITG508P	Solid	35.5mm	29.9mm	13.8mm
CNMB/3/ITG508P	Solid	52.8mm	45.5mm	13.8mm
CNMB/4/ITG508P	Solid	70.6mm	59.9mm	13.8mm
CNMB/5/ITG508P	Solid	87.6mm	79.5mm	13.8mm

\*For 6, 9 & 12 Size Module Use CNMB/3/ITG508P

CNMB/ ITG508P

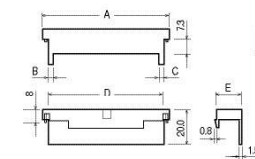


## 5.08mm pitch pre-drilled

TYPE NO.	STYLE	POLES	A	B	C	D	E
CNMB/1/ITG508	Pre-Drilled	3	17.5mm	2.3mm	2.3mm	15.0mm	14.3mm
CNMB/2/ITG508	Pre-Drilled	6	35.5mm	0.9mm	2.7mm	29.9mm	13.8mm
CNMB/3/ITG508	Pre-Drilled	9	52.8mm	2.3mm	2.3mm	45.5mm	13.8mm
CNMB/4/ITG508	Pre-Drilled	12	70.6mm	2.7mm	5.8mm	59.9mm	13.8mm
CNMB/5/ITG508	Pre-Drilled	15	87.6mm	2.7mm	5.8mm	79.5mm	13.8mm

For 6, 9 & 12 Size Module Use CNMB/3/ITG508

CNMB/ ITG508

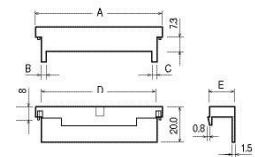


## 7.5mm pitch pre-drilled

TYPE NO.	STYLE	POLES	A	B	C	D	E
CNMB/1/ITG750	Pre-Drilled	2	17.5mm	2.3mm	2.3mm	15.0mm	14.3mm
CNMB/2/ITG750	Pre-Drilled	4	35.5mm	0.9mm	2.7mm	29.9mm	13.8mm
CNMB/3/ITG750	Pre-Drilled	6	52.8mm	2.3mm	2.3mm	45.5mm	13.8mm
CNMB/4/ITG750	Pre-Drilled	8	70.6mm	2.7mm	5.8mm	59.9mm	13.8mm
CNMB/5/ITG750	Pre-Drilled	10	87.6mm	2.7mm	5.8mm	79.5mm	13.8mm

For 6, 9 & 12 Size Module Use CNMB/3/ITG750

CNMB/ ITG750

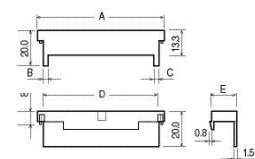


## 10.16mm pitch pre-drilled

TYPE NO.	STYLE	POLES	A	B	C	D	E
CNMB/1/ITG100	Pre-Drilled	2	17.5mm	1.0mm	1.0mm	15.0mm	14.3mm
CNMB/2/ITG100	Pre-Drilled	3	35.5mm	0.9mm	0.9mm	29.9mm	13.8mm
CNMB/3/ITG100	Pre-Drilled	5	52.8mm	1.0mm	1.0mm	45.5mm	13.8mm
CNMB/4/ITG100	Pre-Drilled	6	70.6mm	2.7mm	2.7mm	59.9mm	13.8mm
CNMB/5/ITG100	Pre-Drilled	7	87.6mm	2.7mm	5.8mm	79.5mm	13.8mm

For 6, 9 & 12 Size Module use CNMB/3/ITG100

CNMB/ ITG100

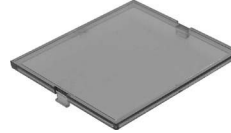


# ENCLOSURES

## Standard Covers

RED TRANSPARENT	SMOKED TRANSPARENT	CLEAR TRANSPARENT	GREY	SIZE
CNMB/1/PR	CNMB/1/PS	CNMB/1/PC	CNMB/1/PG	1
CNMB/2/PR	CNMB/2/PS	CNMB/2/PC	CNMB/2/PG	2
CNMB/3/PR	CNMB/3/PS	CNMB/3/PC	CNMB/3/PG	3
CNMB/4/PR	CNMB/4/PS	CNMB/4/PC	CNMB/4/PG	4
CNMB/5/PR	CNMB/5/PS	CNMB/5/PC	CNMB/5/PG	5
CNMB/6/PR	CNMB/6/PS	CNMB/6/PC	CNMB/6/PG	6
CNMB/9/PR	CNMB/9/PS	CNMB/9/PC	CNMB/9/PG	9
CNMB/12/PR	CNMB/12/PS	CNMB/12/PC	CNMB/12/PG	12

CNMB/P



## Curved Covers

RED TRANSPARENT	SMOKED TRANSPARENT	CLEAR TRANSPARENT	GREY	SIZE
CNMB/1/PRC	CNMB/1/PSC	CNMB/1/PCC	CNMB/1/PGC	1
CNMB/2/PRC	CNMB/2/PSC	CNMB/2/PCC	CNMB/2/PGC	2
CNMB/3/PRC	CNMB/3/PSC	CNMB/3/PCC	CNMB/3/PGC	3
CNMB/4/PRC	CNMB/4/PSC	CNMB/4/PCC	CNMB/4/PGC	4
CNMB/5/PRC	CNMB/5/PSC	CNMB/5/PCC	CNMB/5/PGC	5
CNMB/6/PRC	CNMB/6/PSC	CNMB/6/PCC	CNMB/6/PGC	6
CNMB/9/PRC	CNMB/9/PSC	CNMB/9/PCC	CNMB/9/PGC	9

CNMB/PC



## Extended Height Module

- 16mm high
- Accepts hinged, curved lid
- Adds an additional horizontal PCB slot

TYPE NO.	WIDTH
CNMB/2/E	34.7mm
CNMB/3/E	52.0mm
CNMB/4/E	70.0mm
CNMB/5/E	86.5mm
CNMB/6/E	104.5mm
CNMB/9/E	157.7mm

CNMB/E



## Curved Hinged Covers

- For use with extended module only

RED TRANSPARENT	CLEAR TRANSPARENT	GREY	SIZE
CNMB/2/HPRC	CNMB/2/HPCC	CNMB/2/HPGC	2
CNMB/3/HPRC	CNMB/3/HPCC	CNMB/3/HPGC	3
CNMB/4/HPRC	CNMB/4/HPCC	CNMB/4/HPGC	4
CNMB/5/HPRC	CNMB/5/HPCC	CNMB/5/HPGC	5
CNMB/6/HPRC	CNMB/6/HPCC	CNMB/6/HPGC	6
CNMB/9/HPRC	CNMB/9/HPCC	CNMB/9/HPGC	9

CNMB/HPC



## Customisation Service

We offer a full customisation, assembly and product testing service, not just a box, for all our enclosures found with this section of our Components catalogue and throughout our Enclosure catalogue.

Please contact our Technical Sales Team for detailed drawings and customisation quotations.



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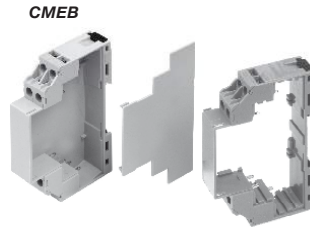
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# ENCLOSURES

## Extendable Module Box

- 17.5mm width module box, extendable
- Box has a detachable end plate
- Extension box is sideless
- Each module, has 8 removable screw terminals
- Top hat 35mm DIN rail or surface mounting
- Moulded in flame retardant UL94-V0

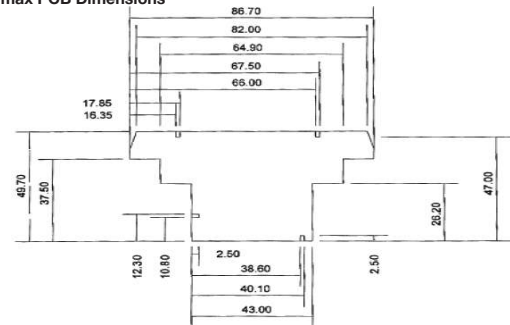


TYPE NO.	DESCRIPTION
CMEB	17.5mm Module box
CMEB/E	Extension

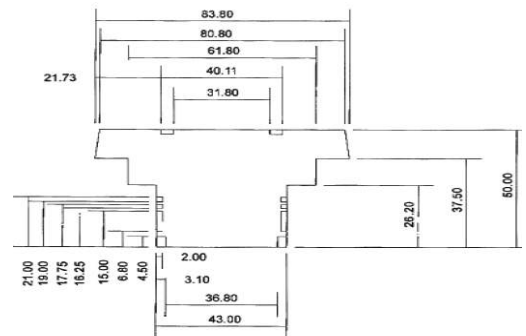
### SPECIFICATION

Rating Terminals	8A/250VAC
Cable entry	2x2.5mm <sup>2</sup> Solid or Standard
Terminal protection	IP20

#### CMEB max PCB Dimensions



#### CMEB/E max PCB Dimensions



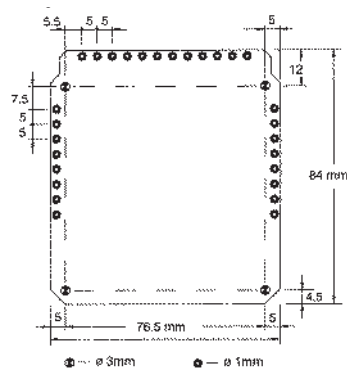
## Vertical Box for DIN Rail

- Designed for 5mm pitch terminal blocks
- Two sizes, 22.5mm or 45mm wide
- Solid & perforated plates to cover unused terminal areas
- Three sides accept 12-way terminal blocks each side
- Complete box contains one 12-way closed, three 4-way closed & three 4-way perforated plates



### SPECIFICATION

Rating Terminals	8A/250VAC
Cable entry	2x2.5mm <sup>2</sup> Solid or Standard
Terminal protection	IP20
Material	PA66 UL94-V0



TYPE NO.	DESCRIPTION	SIZE
CVB225/KIT	Complete plastic box	22.5x82x90mm
CVB450/KIT	Complete plastic box	45x82x90mm
CVBPF4	4 way perforated	CVB VENT PLATE
CVBPP4	4 way closed plate	CVB BLIND PLATE
CVBPP12	12 way closed plate	CVB BLIND PLATE LONG
CVBMSC	Prototyping Blank PCB	

# ENCLOSURES

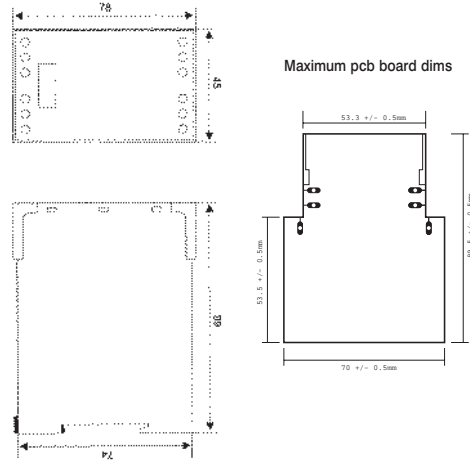
## Controls Housing (DIN Rail mounting)

- 12 terminals
- Internal PCB guides
- Snap fit DIN Rail mounting fixtures
- Moulded in Grey Flame Retardant UL94-V0 PC
- Removable top cover
- Integral marker plate
- For G-rail mounting adaptors available
- Terminals have PCB pins to minimise internal wiring



TYPE NO.	DESCRIPTION
CCH12	12 terminal controls housing

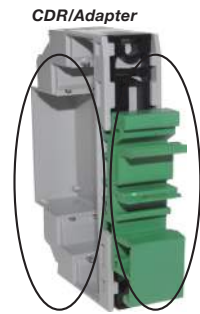
SPECIFICATION			
Rating		250VAC	10A
Cable entry	Solid	2x2.5 mm <sup>2</sup>	
	Stranded	2x1.5mm <sup>2</sup>	



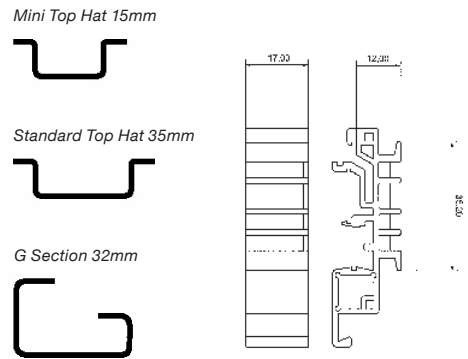
## DIN Rail Adaptor

A one piece adaptor to adapt relay bases and enclosures to G rail and mini din rails

- Snap fit Din Rail mounting fixtures
- Moulded in Flame retardant UL 94-V0
- Symmetrical (35mm)
- Asymmetrical (G-rail)
- Mini Symmetrical (15mm)



TYPE NO.	DESCRIPTION
CDR/Adapter	DIN Rail Adapter



## Custom Design Service

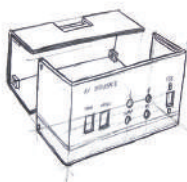
Custom Designed plastic enclosures, housings, covers, panels and parts **without** tooling.

We develop and manufacture enclosures in the UK to your specifications from flat sheet plastic technology.

Ideally suited for low to medium batch quantities, from the most simple to complex enclosures.

Minimal Capital outlay with **no** tooling, total flexibility of modification to CAD-CAM programs and rapid time to market.

**Basic Construction**  
Day 1



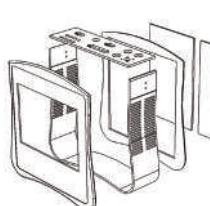
Week 1



Week 2-3



**Complex Construction**  
Week 1



Week 2



Week 3-4



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# BATTERIES

## Overview of CamdenBoss Batteries

CamdenBoss offers a range of sealed rechargeable 6V and 12V Absorbent Glass Matt (BEL) and Gelled Electrolyte batteries (BEG), with specialist batteries constructed for Electric Vehicles (BEV) and Solar (BES) applications, accompanied by Lantern Batteries and Charger, Battery Balancer and Connectors.

### Typical Applications for CamdenBoss batteries

#### BEL

Emergency lighting  
Computer backup  
Marine equipment  
Vending machines  
Remote telemetry  
Access control  
Uninterruptible power supplies  
Rehabilitation equipment  
Control equipment  
Cathodic protection  
Navigation aids

#### BEV

Forklifts  
Golf carts  
Electric Motorcycles  
Power tools  
Trolley motors  
Floor sweepers  
Mobility Scooters  
Wheelchairs

#### BEG

Cycling/float service  
Residential  
Refrigeration  
Telecommunications  
Wind power  
Engine starting  
Water pumping  
Road side cabinets  
Portable medical equipment

#### BES

Photovoltaic power  
Power plants in remote villages  
Transportation signal installations  
Telecommunication services  
Cellular transmission stations  
Street and garden lighting  
Hybrid power supplies

### Battery Construction

Absorbent Glass Matt (BEL) and Microporous Duroplastic (BEG) separator construction.

Acid paste contained in BEL batteries and Gelled Electrolyte in BEG batteries provide a non-spillable, leak proof and maintenance free construction.

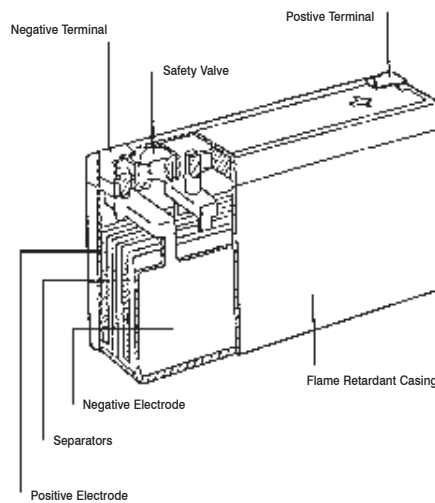
Low self-discharge rate typically less than 3% per month, ensures long storage life.

No need for forced venting, low pressure relief valves for gassing and seals to prevent oxygen ingress.

Supplied with fitted terminal covers to insulate and protect in transit.

Batteries must be stored in a charged condition. Minimum cell voltage in storage (self-discharging) 2.0 Volt/Cell.

During storage batteries must have top-up charge at given intervals and be stored away from heat sources and direct sunlight.



STORAGE TEMPERATURE	CHARGE INTERVAL
less than 20°	typically 9 months
20° - 30°	typically 6 months
30° - 40°C	typically 3 months

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# BATTERIES

## Absorbent Glass Mat (AGM) Batteries

Robust sealed non-spillable maintenance free valve regulated recombinant batteries. Ideal for starting, stationary, deep-cycle and high current, high power applications.

- Completely maintenance free, no need to add water
- Spill and leak-proof, multi-position usage
- Low self-discharge, long storage life
- Increased durability and deep cycle ability
- Valve regulated to 2.5psi max
- Non-hazardous
- Thermal stability, vibration and shock-resistant
- Threaded insert or faston terminals as standard
- Flag, automotive, J type, J type adapter terminals to order
- Lower cost when compared to Gelled Electrolyte batteries
- Superior performance for shorter duration/higher current discharges

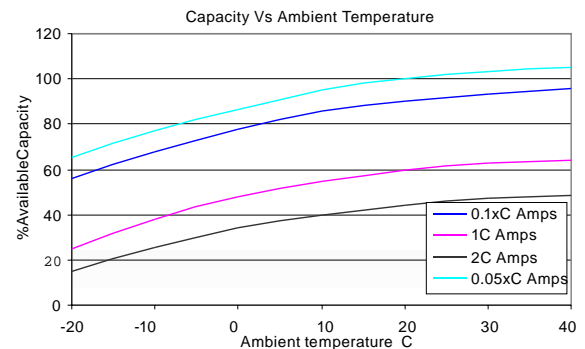
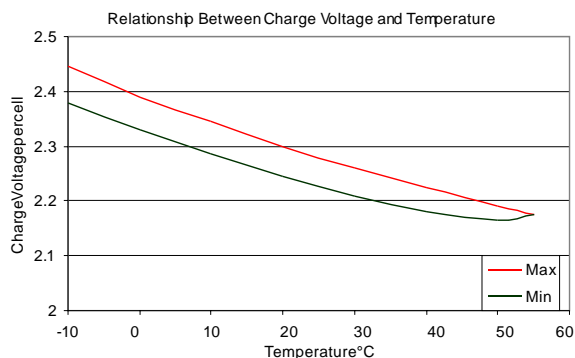
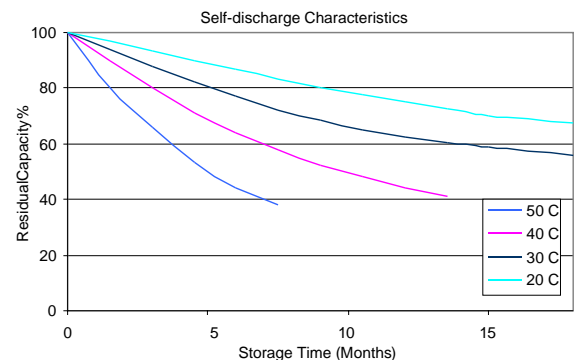
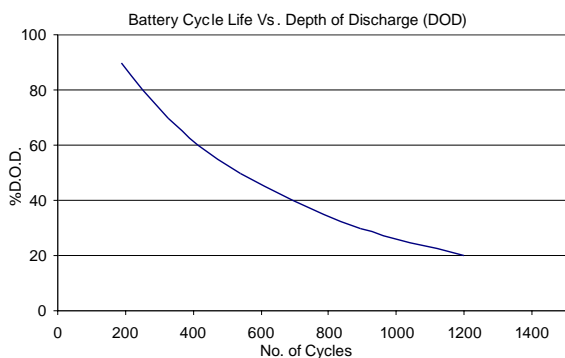
### SPECIFICATION

Nominal Voltage	BEL060013-BEL060120	6V
	BEL120180-BEL122300	12V
Battery life	BEL060013-BEL060120	5 Years
	BEL120180-BEL122300	12 Years
Operating temperature	BEL060013-BEL060120	-20°C to 50°C
	BEL120180-BEL122300	-10°C to 45°C
Grid alloy		Calcium/Tin lead alloy
Plates		Flat pasted
Separator		Absorbent Glass Mat
Active material		High purity lead
Case and cover		ABS (V0 on request)
Charge Voltage		Float 2.27-2.30 VPC @ 20°C
		Cycling 2.4 VPC @ 20°C
		Max 2.4 VPC
		Max ripple 5%
Electrolyte		Sulphuric acid
Venting valve		EPDM Rubber
		release pressure at 1.5 to 2 psi resealing at 1psi
Terminals		Epoxy sealed
Torque settings		5-7Nm



### Typical Applications:

- Cycling/Float Service
- Telecommunications
- Solar and wind
- Emergency lighting
- Computer backup
- Marine equipment
- Power tools
- Vending machines
- Power supplies
- Remote telemetry
- Access control
- Medical equipment
- Control equipment
- Cathodic protection
- Navigation aids
- Cellular Radio Stations
- Security systems



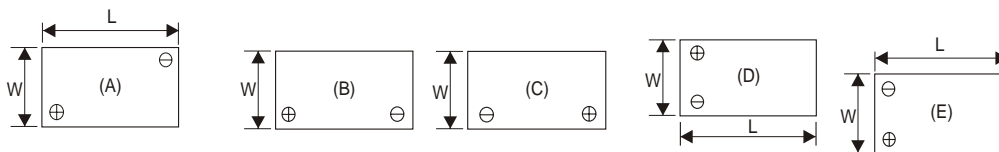


# BATTERIES

	NOMINAL VOLTAGE	NOMINAL CAPACITY	LENGTH	WIDTH	HEIGHT	WEIGHT	TERMINAL DETAILS	INTERNAL RESISTANCE	CHARGE CURRENT MAX	CCA AT 0°C	SHORT CIRCUIT	QTY PER BOX
BEL060013	6V	1.3Ah	98mm	25mm	52mm	0.32kg	B - T1	70Ω	0.35A	N/A	56A	40
BEL060032	6V	3.2Ah	134mm	34mm	60mm	0.7kg	B - T1	30Ω	0.8A	N/A	128A	20
BEL060045	6V	4.5Ah	70mm	48mm	101mm	0.77kg	A - T1	20Ω	1.1A	N/A	176A	20
BEL060072	6V	7.2Ah	150mm	34mm	94mm	1.27kg	B - T1	13Ω	1.8A	N/A	288A	10
BEL060100	6V	10Ah	151mm	50mm	93.5mm	1.67kg	E - T1	10Ω	2.5A	N/A	400A	10
BEL060120	6V	12Ah	151mm	50mm	93.5mm	1.85kg	B - T2	10Ω	3A	N/A	480A	10
BEL120013	12V	1.3Ah	96.5mm	45mm	53mm	0.57kg	E - T1	130Ω	0.4A	N/A	64A	15
BEL120022	12V	2.3Ah	177.5mm	34mm	60mm	0.96kg	B - T1	90Ω	0.6A	N/A	96A	20
BEL120033	12V	3.3Ah	133.5mm	67mm	61mm	1.39kg	E - T1	60Ω	0.9A	N/A	144A	10
BEL120050	12V	5Ah	90mm	70mm	101mm	1.95kg	B - T1	40Ω	1.3A	N/A	208A	10
BEL120060	12V	6Ah	150mm	64mm	98mm	1.9kg	D - T2	20Ω	3A	N/A	480A	4
BEL120072	12V	7.2Ah	151mm	65mm	94mm	2.3kg	D - T1	28Ω	1.7A	N/A	272A	8
BEL120120	12V	12Ah	150mm	97mm	98mm	3.67kg	D - T2	20Ω	3A	N/A	480A	4
BEL120180	12V	18Ah	181mm	76mm	167mm	5.45kg	C - M5	11Ω	4.5A	144A	732A	2
BEL120260	12V	26Ah	178mm	168mm	124mm	8kg	C - M5	6.5Ω	6.5A	228A	900A	1
BEL120260A	12V	24Ah	165mm	173mm	125mm	8.3Kg	C - M5	6.5Ω	6.5A	228A	900A	1
BEL120330	12V	33Ah	195mm	130mm	160mm	10.4kg	B - M6	7Ω	8A	258A	1100A	1
BEL120330A	12V	33Ah	195mm	130mm	168mm	11kg	B - M6	7Ω	8A	258A	1100A	1
BEL120440	12V	42Ah	198mm	167mm	157mm	13.3kg	C - M6	6.2Ω	11A	345A	1400A	1
BEL120450	12V	45Ah	198mm	166mm	170mm	14.6kg	C - M6	6.2Ω	11A	345A	1400A	1
BEL120550	12V	55Ah	229mm	138mm	213mm	18.5kg	B - M6	6.5Ω	14A	466A	1700A	1
BEL120700	12V	68Ah	260mm	168mm	211mm	24.3kg	B - M6	5Ω	18A	557A	2100A	1
BEL120750	12V	75Ah	258mm	166mm	225mm	23.5kg	M - M6	5Ω	18A	557A	2100A	1
BEL120800	12V	78Ah	260mm	168mm	211mm	25.8kg	B - M6	5Ω	20A	664A	2400A	1
BEL120900	12V	90Ah	306mm	168mm	211mm	29kg	B - M6	4Ω	22A	680A	2650A	1
BEL121000	12V	97Ah	306mm	168mm	211mm	28.8kg	B - M6	4Ω	25A	751A	2900A	1
BEL121100	12V	109Ah	329mm	173mm	209mm	32.5kg	B - M6	4Ω	27A	804A	3000A	1
BEL121200	12V	120Ah	408mm	176mm	227mm	36.5kg	B - M6	3Ω	30A	877A	3300A	1
BEL121350	12V	141Ah	340mm	173mm	283mm	40.6kg	B - M6	2.73Ω	35A	965A	3750A	1
BEL121500	12V	150Ah	482mm	170mm	242mm	44kg	B - M6	2.5Ω	38A	1014A	4200A	1
BEL121600	12V	167Ah	530mm	209mm	214mm	55kg	E - M6	2Ω	40A	1021A	4700A	1
BEL122000	12V	204Ah	520mm	240mm	220mm	60.9kg	E - M8	<2Ω	50A	1027A	5400A	1
BEL122300	12V	230Ah	521mm	269mm	203mm	74kg	E - M8	<2Ω	57A	1057A	5900A	1

T1 = Faston Tab No.187 (4.8m)

T2 = Faston Tab No.250 (6.3mm)



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# BATTERIES

## Electric Vehicle Batteries

High performance sealed non-spillable maintenance free valve regulated recombinant batteries. Deep cycles batteries designed to deliver maximum capacity within five cycles, ideal for use in electric vehicles

- Absorbent glass mat construction
- Completely maintenance free, no need to add water
- Spill and leak-proof, multi-position usage
- High deep-discharge capability
- Exceptional durability and deep cycle ability
- Ideal for repeat cycling
- Excellent for long discharges
- Low self-discharge, long storage life
- Vibration and shock-resistant
- Threaded insert or faston terminals as standard
- Flag, automotive, J type, J type adapter terminals to order

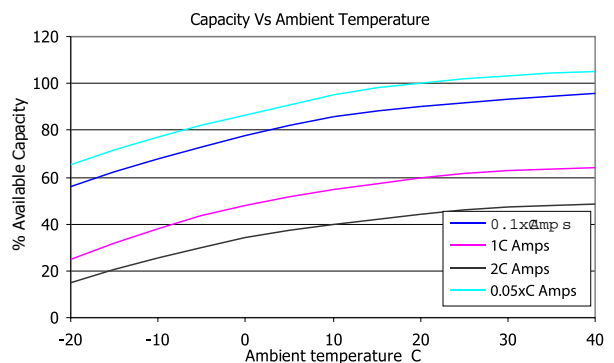
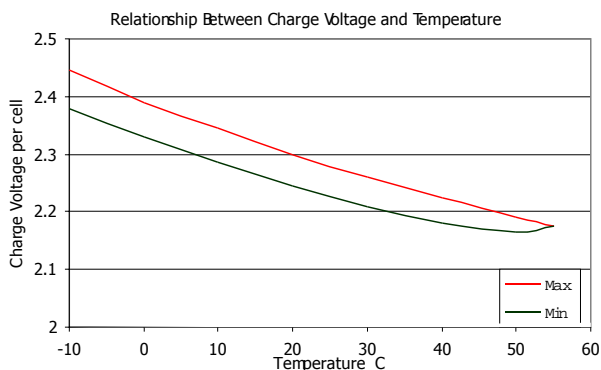
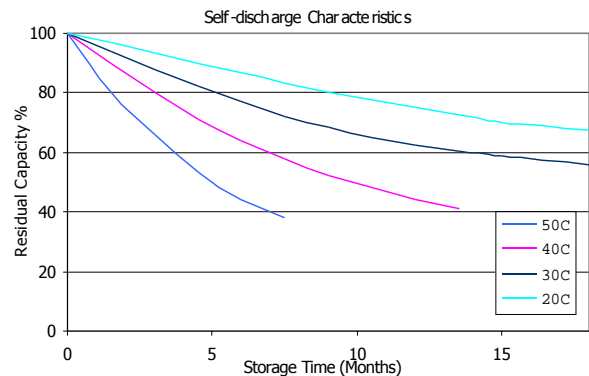
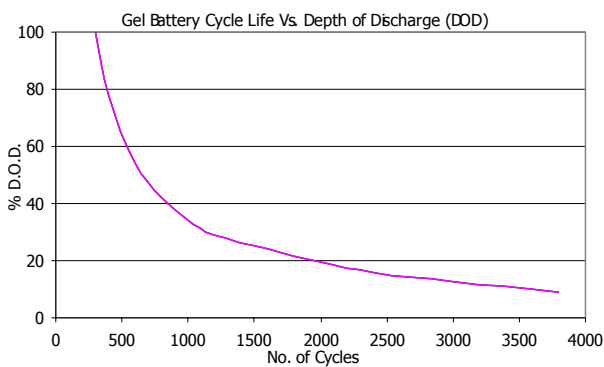


### SPECIFICATION

Nominal Voltage	BEV061100-BEV062000	6V
	BEV120075-BEV123000	12V
Operating temperature	-10°C to 45°C	
Grid alloy	Calcium/Tin alloy	
Plates	Flat pasted	
Separator	Absorbent Glass Mat	
Case and cover	ABS (V0 on request)	
Charge Voltage	Float 2.27-2.30 VPC @ 20°C	
	Cycling 2.4 VPC @ 20°C	
	Max 2.4 VPC	
Electrolyte	Sulphuric acid	
Venting valve	EPDM Rubber	
	release pressure at 1.5 to 2 psi	
	resealing at 1 psi	
Terminals	Epoxy sealed	
Torque settings	5-7Nm	

### Typical Applications:

- Electric Motorcycles
- Forklifts
- Golf carts
- Power tools
- Trolley motors
- Floor sweepers
- Mobility Scooters
- Wheelchairs
- Uninterruptible power supply

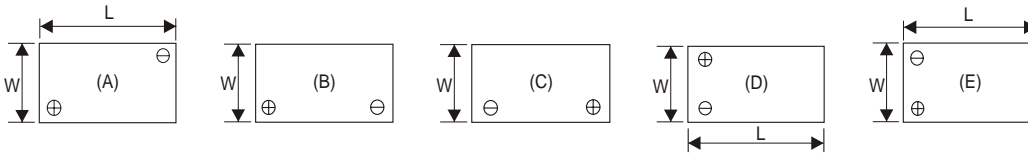


# BATTERIES

	NOMINAL VOLTAGE	NOMINAL CAPACITY	LENGTH	WIDTH	HEIGHT	WEIGHT	TERMINAL DETAILS	CHARGE CURRENT MAX	CCA AT 0°C	SHORT CIRCUIT	QTY PER BOX
BEV061100	6V	115Ah	193mm	168mm	204mm	17.3kg	M8	27A	828A	1010A	1
BEV061600	6V	174Ah	298mm	171mm	226mm	26.8kg	M8	50A	1014A	5000A	1
BEV062000	6V	199Ah	323mm	178mm	226mm	30.5kg	M8	50A	1027A	5000A	1
BEV120075	12V	8Ah	150mm	63mm	95mm	3kg	D-T1	1.5A	-	275A	8
BEV120120	12V	12Ah	152mm	99mm	96mm	4kg	D-T2	2.4A	-	500A	4
BEV120180	12V	17Ah	181mm	76mm	167mm	5.5kg	M5	4.5A	144A	732A	2
BEV120260	12V	26Ah	168mm	178mm	124mm	8.1kg	M5	6.5A	228A	900A	1
BEV120330	12V	30Ah	196mm	131mm	160mm	10.3kg	M6	7A	258A	1100A	1
BEV120440	12V	40Ah	198mm	167mm	157mm	13.0kg	M6	11A	345A	1400A	1
BEV120550	12V	54Ah	229mm	138mm	213mm	18.6kg	M6	14A	466A	1700A	1
BEV120650	12V	77Ah	272mm	165mm	188mm	21.7kg	M8	20A	602A	2400A	1
BEV120700	12V	70Ah	349mm	168mm	175mm	21.2kg	M8	18A	557A	2100A	1
BEV120800	12V	82Ah	260mm	168mm	211mm	25.5kg	M8	22A	664A	2650A	1
BEV121000	12V	98Ah	306mm	168mm	211mm	29.6kg	M8	25A	751A	2900A	1
BEV121100	12V	107Ah	329mm	173mm	209mm	32.8kg	M8	27A	804A	3000A	1
BEV121200	12V	123Ah	409mm	177mm	225mm	36.4kg	M8	30A	877A	3300A	1
BEV121350	12V	149Ah	342mm	173mm	282mm	44.1kg	M8	38A	951A	4200A	1
BEV121500	12V	154Ah	483mm	170mm	242mm	46.0kg	M8	40A	965A	4700A	1
BEV121600	12V	164Ah	530mm	209mm	214mm	54.2kg	M8	50A	985A	5400A	1
BEV122000	12V	219Ah	522mm	242mm	220mm	63.8kg	M8	57A	1037A	5900A	1
BEV123000	12V	251Ah	521mm	270mm	205mm	70.2kg	M8	57A	1057A	5900A	1

T1 = Faston Tab No.187 (4.8mm)

T2 = Faston Tab No.250 (6.3mm)



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ENCLOSURES

BATTERIES

TRANS-  
 FORMERS

# BATTERIES

## Gelled Electrolyte Batteries

High performance sealed valve regulated recombinant batteries. Ideal for repeated cycling, heavy deep-discharge, high temperature and motive power applications.

- Utilises the latest battery technology
- Completely maintenance free, no need to add water
- Spill and leak-proof, multi-position usage
- Low self-discharge, long storage life
- Gelled thixotropic electrolyte
- Increased durability and deep cycle ability
- Valve regulated to 2.5psi max
- No equalization charge necessary
- Zero stratification
- Vibration and shock-resistant
- High deep-discharge capability
- Wide range of operating temperatures, resistant to freezing

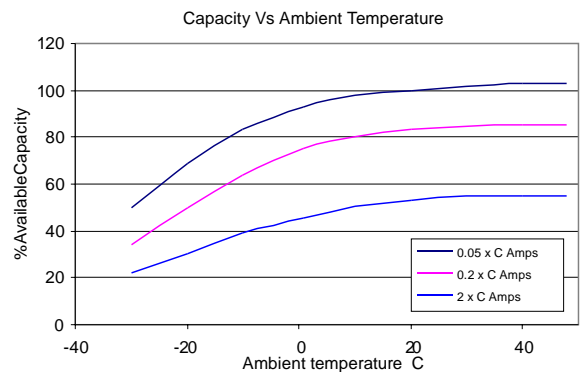
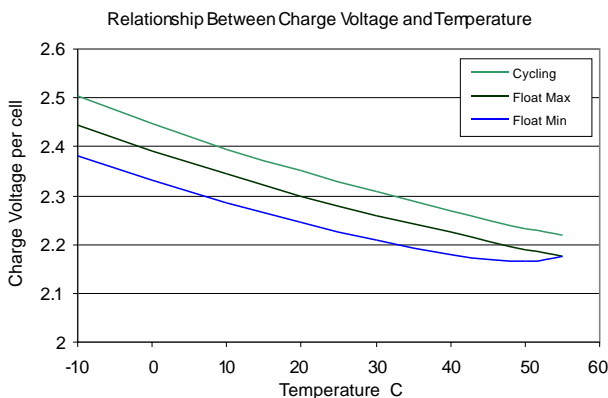
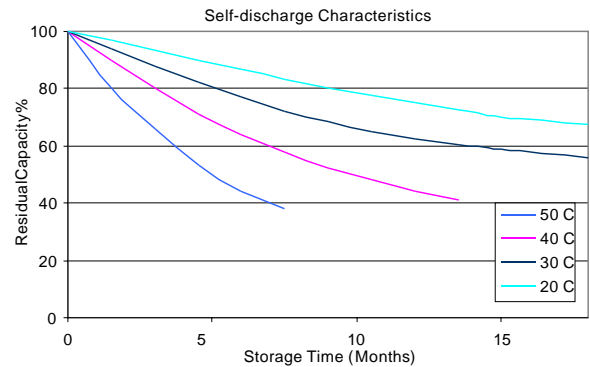
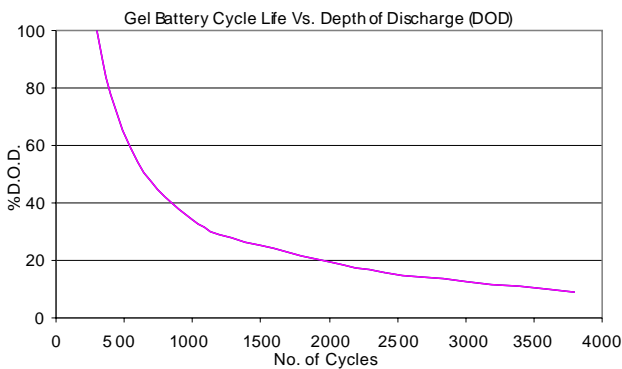


### SPECIFICATION

Nominal Voltage	6V & 12V
Battery life	12 Years
Operating temperature	-20°C to 50°C
Grid alloy	Calcium/Tin lead alloy
Plates	Flat pasted
Separator	Microporous Duroplastic
Active material	High purity lead
Case and cover	ABS (V0 on request)
Charge Voltage	Float 2.27-2.30 VPC @ 20°C Cycling 2.4 VPC @20°C Max 2.4 VPC
Electrolyte	Sulphuric acid
Venting valve	EPDM Rubber release pressure at 1.5 to 2 psi resealing at 1psi
Terminals	Epoxy sealed
Torque settings	5-7Nm

### Typical Applications:

- Cycling/float service
- Residential
- Refrigeration
- Telecommunications
- Wind
- Engine starting
- Water pumping
- Road side cabinets
- Cellular radio stations
- Cathodic protection
- Photovoltaic
- Portable medical equipment
- Navigation aids



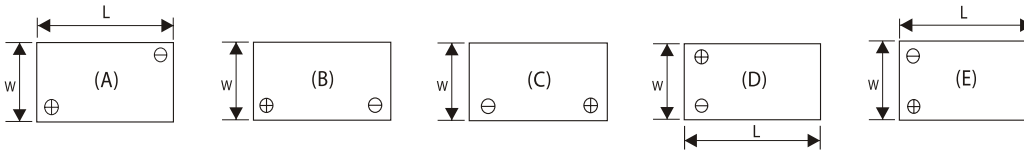
- PCB TERMINAL BLOCKS
- INTER-CONNECTION
- FUSES & FUSE-HOLDERS
- LEDs & INDICATORS
- MINIATURE SWITCHES
- LIMIT & SAFETY SWITCHES
- CONTROL PRODUCTS
- INTERFACE MODULES & SUPPORTS
- RELAY BASES
- ENCLOSURES
- BATTERIES**
- TRANSFORMERS

# BATTERIES

	NOMINAL VOLTAGE	NOMINAL CAPACITY	LENGTH	WIDTH	HEIGHT	WEIGHT	TERMINAL DETAILS	INTERNAL RESISTANCE	CHARGE CURRENT MAX	CCA AT 0°C	SHORT CIRCUIT	QTY PER BOX
BEG060075	6V	7.5Ah	150mm	34mm	96mm	1.3kg	B - T1	13mΩ	1.5A	N/A	275A	10
BEG060100	6V	10Ah	151mm	50mm	96mm	1.9kg	B - T1	10mΩ	2A	N/A	325A	10
BEG060120	6V	12Ah	151mm	50mm	96mm	2kg	B - T2	10mΩ	2.4A	N/A	500A	10
BEG061100	6V	110Ah	282mm	168mm	205mm	16kg	A - M6	4mΩ	27A	1010A	3200A	1
BEG061600	6V	174Ah	298mm	171mm	226mm	26kg	A - M6	2mΩ	40A	1290A	4600A	1
BEG062000	6V	197Ah	318mm	178mm	225mm	31kg	A - M8	<2mΩ	50A	1600A	5000A	1
BEG120075	12V	7.5Ah	151mm	65mm	96mm	2.5kg	D - T1	28mΩ	1.5A	N/A	275A	8
BEG120120	12V	12Ah	150mm	97mm	98mm	4kg	D - T2	20mΩ	2.4A	N/A	500A	4
BEG120180	12V	16Ah	181mm	76mm	167mm	5.9kg	C - M5	12mΩ	4.5A	270A	700A	2
BEG120180A	12V	16Ah	181mm	76mm	167mm	5.9kg	C - M5*	12mΩ	4.5A	270A	700A	2
BEG120260	12V	26Ah	166mm	176mm	126mm	8.8kg	C - M5	9.5mΩ	6.5A	300A	900A	1
BEG120330	12V	32Ah	195mm	130mm	160mm	10.9kg	B - M6	8.5mΩ	8A	320A	1100A	1
BEG120330A	12V	33Ah	195mm	130mm	168mm	11kg	B - M6	8.5mΩ	8A	320A	1100A	1
BEG120440	12V	40Ah	197mm	165mm	170mm	14kg	C - M6	7.5mΩ	11A	350A	1400A	1
BEG120450	12V	45Ah	197mm	165mm	173mm	14.6g	C - M6	7.5mΩ	11A	350A	1400A	1
BEG120550	12V	55Ah	228mm	167mm	207mm	17.5kg	B - M6	6.5mΩ	14A	380A	1700A	1
BEG120700	12V	67Ah	259mm	168mm	208mm	21.5kg	C - M6	5mΩ	18A	550A	2100A	1
BEG120800	12V	77Ah	259mm	168mm	208mm	23.3kg	B - M6	5mΩ	20A	620A	2400A	1
BEG120900	12V	85Ah	305mm	168mm	208mm	27kg	B - M6	4mΩ	22A	680A	2650A	1
BEG121000	12V	91Ah	305mm	168mm	208mm	28.4kg	B - M6	5mΩ	25A	780A	2900A	1
BEG121100	12V	106Ah	332mm	174mm	213mm	32.2kg	B - M6	4mΩ	27A	960A	3000A	1
BEG121200	12V	115Ah	408mm	176mm	227mm	35.4kg	B - M6	3mΩ	30A	1020A	3300A	1
BEG121350	12V	138Ah	340mm	173mm	280mm	39.8kg	C - M6	2.5mΩ	35A	1160A	3750A	1
BEG121500	12V	156Ah	482mm	170mm	242mm	44.3kg	B - M6	2mΩ	38A	1300A	4200A	1
BEG121600	12V	157Ah	530mm	209mm	214mm	57.4kg	E - M6	2mΩ	40A	1440A	4700A	1
BEG122000	12V	200Ah	522mm	238mm	223mm	65kg	E - M8	<36mΩ	50A	1670A	5400A	1
BEG122300	12V	225Ah	193mm	269mm	203mm	71kg	E - M8	<2mΩ	57A	1870A	5900A	1

T1 = Faston Tab No.187 (4.8mm)      T2 = Faston Tab No.250 (6.3mm)

\* = BEG120180A has a horizontal maintained M5 terminal



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ELECTRONICS & ENCLOSURES

# BATTERIES

## Solar Gel Batteries

Sealed non-spillable maintenance free valve regulated recombinant solar batteries. Specially constructed for demanding applications subjected to extreme temperatures, unpredictable charging, daily cycling & partial charge and discharge

- Utilises the latest battery technology
- Completely maintenance free, no need to add water
- Spill and leak-proof, multi-position usage
- Low self-discharge, long storage life
- Gelled thixotropic electrolyte
- Increased durability and deep cycle ability
- Valve regulated to 2.5psi max
- No equalization charge necessary
- Zero stratification
- Vibration and shock-resistant
- Good tolerance to unpredictable charging regimes
- Wide range of operating temperatures, resistant to freezing
- Batteries have terminal options to meet the multitude of connection requirements.

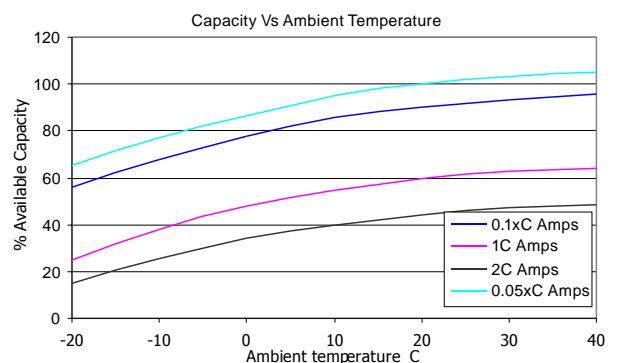
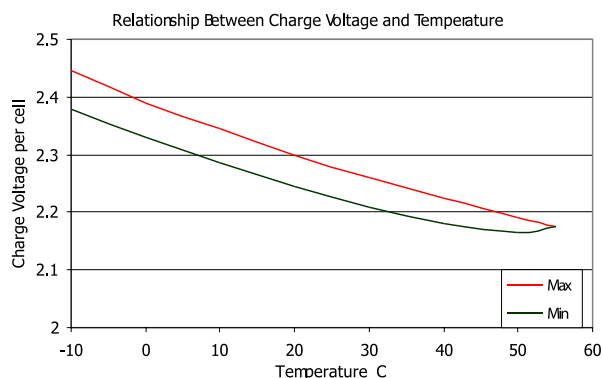
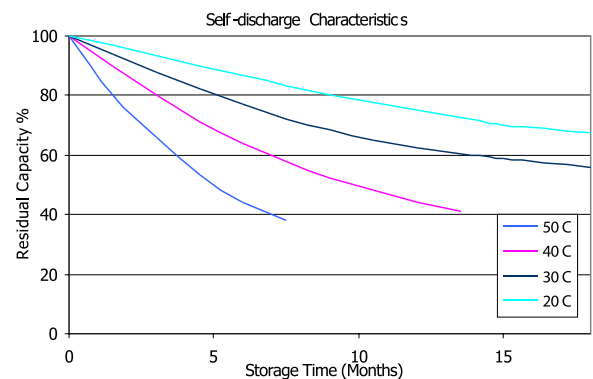
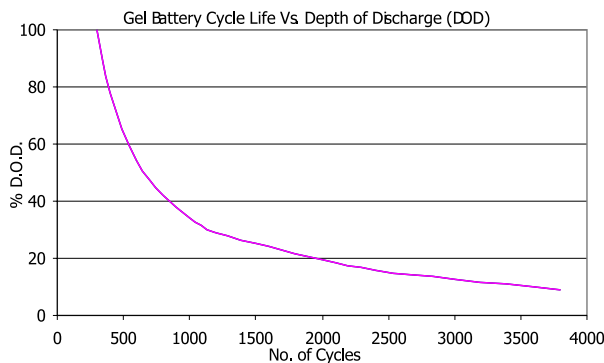


### SPECIFICATION

Nominal Voltage	6 & 12 Volts	
Battery life	BES120075 - BES120120	5 Years
	All others	12 years
Operating temperature	-20°C to 50°C	
Grid alloy	Calcium/Tin lead alloy	
Plates	Flat Pasted	
Separator	Gel-Microporous Duroplastic	
Active material	Very high purity lead	
Case and cover	ABS (VO on request)	
Charge Voltage	Cycling 2.4 VPC @20°C Max 2.4 VPC	
Electrolyte	Sulphuric Acid	
Venting valve	EPDM Rubber 1.5 to 2psi (10.5 - 14 Kpa) release pressure. Resealing at 1 psi (7 Kpa)	
Terminals	Epoxy Sealed	
Torque settings	5-7Nm	

### Typical Applications:

- Photovoltaic power supply of:
- Power plants of remote villages
- Signal Installations of air, sea, road and railway transport
- Radio relay stations for telecommunication
- Cellular roadside and roof top transmission/repeater stations
- Street and garden lighting
- Hybrid power supplies

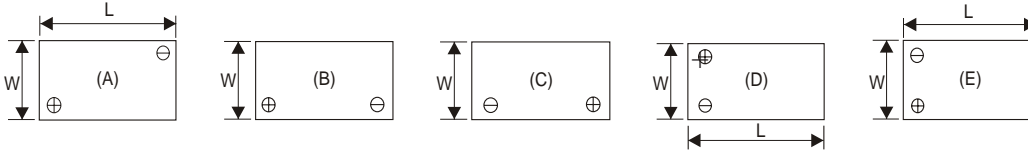




# BATTERIES

	NOMINAL VOLTAGE	NOMINAL CAPACITY	LENGTH	WIDTH	HEIGHT	WEIGHT	TERMINAL DETAILS	INTERNAL RESISTANCE	CHARGE CURRENT MAX	SHORT CIRCUIT	QTY PER BOX
BES061800	6V	170Ah	260mm	181mm	246mm	29.6kg	M8	2mΩ	40A	4600A	1
BES062250	6V	211Ah	244mm	188mm	275mm	33.8kg	M8	<2mΩ	50A	5000A	1
BES120075	12V	7.4Ah	150mm	63mm	99mm	2.5kg	D-T1	28mΩ	1.5A	275A	8
BES120120	12V	9.8Ah	152mm	99mm	99mm	4.0kg	D-T1	20mΩ	2.4A	500A	4
BES120180	12V	15.6Ah	181mm	76mm	167mm	5.4kg	M5	12mΩ	4.5A	700A	2
BES120260	12V	25Ah	168mm	178mm	124mm	8.0kg	M5	9.5mΩ	6.5A	900A	1
*BES120330	12V	31.1Ah	196mm	131mm	160mm	10.3kg	M6	8.5mΩ	8A	1100A	1
BES120330A	12V	33Ah	195mm	130mm	168mm	11.0kg	M6	8.5mΩ	8A	850A	1
*BES120440	12V	39Ah	198mm	167mm	157mm	13.0kg	M6	7.5mΩ	11A	1400A	1
BES120450	12V	55Ah	239mm	132mm	210mm	16.7kg	M6	5.8mΩ	16.5A	1400A	1
BES120550	12V	50.1Ah	229mm	138mm	213mm	18.4kg	M6	6.5mΩ	14A	1700A	1
*BES120700	12V	61Ah	349mm	168mm	175mm	21.0kg	M6	6.5mΩ	14A	1750A	1
BES120750	12V	72Ah	259mm	168mm	211mm	25.1kg	M6	5mΩ	18A	2100A	1
BES121000	12V	87Ah	306mm	168mm	211mm	29.3kg	M6	4mΩ	22A	2650A	1
BES121100	12V	101Ah	329mm	173mm	209mm	32.2kg	M6	5mΩ	25A	2900A	1
BES121200	12V	110Ah	409mm	177mm	225mm	36.0kg	M6	4mΩ	27A	3000A	1
BES121500	12V	156Ah	482mm	170mm	242mm	44.3kg	M6	2mΩ	38A	4200A	1
BES121600	12V	151Ah	530mm	209mm	214mm	53.7kg	M8	2mΩ	40A	4700A	1
BES122000	12V	183Ah	522mm	242mm	220mm	63.4kg	M8	<2mΩ	50A	5400A	1
BES122300	12V	211Ah	521mm	270mm	205mm	69.5kg	M8	<2mΩ	57A	5900A	1

T1 = Faston Tab No.187 (4.8mm)



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**BATTERIES**

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# BATTERIES

## Battery Balancer

When charging two or more batteries in series one can become under-charged and one over-charged.

This imbalance is self-perpetual and shortens battery life due to drying out and sulphating.

The CEQ is an electronic device which measures and equalises the charging voltage within 0.1V, ensuring balanced charging.

The device uses a bridge configuration which balances the voltage between batteries by shunting current from one battery (the higher voltage one) to the other (the lower voltage one) until the differential voltage is as close to zero as possible.

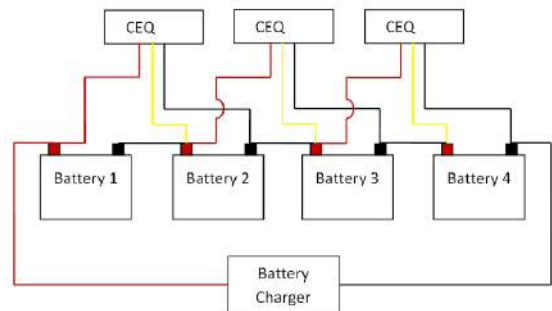
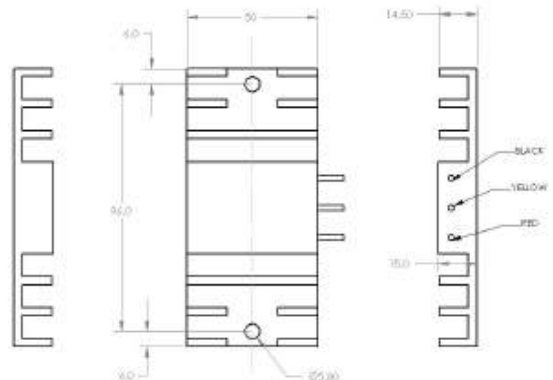
Unlike some other technologies the CEQ's system losses are limited to only standard semiconductor volt drops which are manifested in heat from the body of the device. Most of the current is simply shunted around between the batteries as necessary.

- Improves performance and extends life of batteries charged in series by up to 20%
- Can be used with two or more batteries connected in series  
One balancer used between each pair of batteries
- M6 ring terminations for ease of connection, three colour coded 57mm leads
- Dust and water sealed, suitable for damp environments
- Ideal for electric vehicles, uninterrupted power supplies, marine applications



SPECIFICATION	CEQ6A	CEQ8A	CEQ12A	CEQ15A
Voltage range	4.5-7.5V DC	6.0-10V DC	8-16V DC	10.5-17V DC
Device switch-on voltage	6V	8V	12.8V	14.8V
Differential sensitivity			>50mV	
Maximum flow current			1A	
Operating temperature			-40°C to +85°C	
Weight			120g	
Lead wiring		Red	Battery 1 Positive	
		Yellow	Battery 1 Negative & Battery 2 Positive (connected in series)	
		Black	Battery 2 Negative	

TYPE NO.	DESCRIPTION
CEQ6A	6V Battery Balancer
CEQ8A	8V Battery Balancer
CEQ12A	12V Battery Balancer
CEQ15A	15V Battery Balancer



# BATTERIES

## Rechargeable Lantern Battery

- Protection device fitted, disconnects the battery internally in the event of a short circuit. Resets itself when the fault condition is removed, normal operation can then resume
- Absorbent glass mat construction. This contains the electrolyte giving a non-spillable, maintenance free construction
- Can be used in any orientation
- Low pressure relief valve opens for gassing and seals to prevent oxygen ingress
- Supplied with terminal covers to insulate and protect in transit
- Can be stored in charged condition up to 6 months (20°C) before charge
- Supplied singularly or bulk pack of 20
- Charger available, can charge one or two batteries simultaneously



### SPECIFICATION

Nominal Voltage		6V
Nominal Capacity		4Ah (20hr)
Charge Voltage	Float	6.75 - 6.9V
	Cyclic	7.2 - 7.35V
Max Charge Current		1A
Max Discharge Current		1A
Dimensions	Length	67.5mm
	Width	67.5mm
	Height	97.5mm (112mm)
Weight		0.85kg

### TYPE NO. DESCRIPTION

BEL060040S	Lantern Battery
BEL06/PS	Double Charger

### Typical Applications:

- Communications equipment
- Emergency lighting systems
- Portable lighting
- Marine equipment
- Solar power systems
- Toys and models
- Lanterns



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# BATTERIES

## Battery Connectors

- Wide current range 15A to 350A, 600 V
- UL94 V0 housing material in various colour options
- Contacts are copper silver plated or copper tin plated
- Same colour mating prevents misconnection
- Genderless assembly
- Simple and fast assembly
- Single pole, 2 pole or multipole options
- Operating temperature -20°C to +125°C
- Wire range AWG 20-6, AWG 16-12, AWG 14-10
- Supplied one part for each part number, in bulk, other options to order



### 15A - 45A Single or Multi-pole

HOUSING	COLOUR	LENGTH	WIDTH	HEIGHT
CBC1A/YW	Yellow	25mm	9mm	9mm
CBC1A/OR	Orange	25mm	9mm	9mm
CBC1A/GN	Green	25mm	9mm	9mm
CBC1A/BK	Black	25mm	9mm	9mm
CBC1A/BU	Blue	25mm	9mm	9mm
CBC1A/GY	Grey	25mm	9mm	9mm
CBC1A/WH	White	25mm	9mm	9mm
CBC1A/RD	Red	25mm	9mm	9mm



CONTACT	BARREL	RATING	MAX WIRE	RETENTION FORCE	CONNECT/DISCONNECT
CBCAG1	20-16AWG	15A	4.45mm	25lb	3lb
CBCAG2	12-16AWG	30A	4.45mm	25lb	3lb
CBCAG3	10-14AWG	45A	4.45mm	25lb	3lb

### 50A - 75A Single or Multi-pole

HOUSING	COLOUR	LENGTH	WIDTH	HEIGHT
CBC2/GN	Green	48mm	17mm	17mm
CBC2/BK	Black	48mm	17mm	17mm
CBC2/BU	Blue	48mm	17mm	17mm
CBC2/GY	Grey	48mm	17mm	17mm
CBC2/WH	White	48mm	17mm	17mm
CBC2/RD	Red	48mm	17mm	17mm



CONTACT	BARREL	RATING	MAX WIRE	RETENTION FORCE	CONNECT/DISCONNECT
CBCAG5	12-10AWG	50A	11mm	50lb	7lb
CBCAG8	8AWG	60A	11mm	50lb	7lb
CBCAG14	6AWG	75A	11mm	50lb	7lb

### 35A - 50A 2-Pole

HOUSING	COLOUR	LENGTH	WIDTH	HEIGHT
CBC3/YW	Yellow	48mm	36.4mm	15.9mm
CBC3/OR	Orange	48mm	36.4mm	15.9mm
CBC3/GN	Green	48mm	36.4mm	15.9mm
CBC3/BK	Black	48mm	36.4mm	15.9mm
CBC3/BU	Blue	48mm	36.4mm	15.9mm
CBC3/GY	Grey	48mm	36.4mm	15.9mm
CBC3/WH	White	48mm	36.4mm	15.9mm
CBC3/RD	Red	48mm	36.4mm	15.9mm



CONTACT	BARREL	RATING	MAX WIRE	RETENTION FORCE	CONNECT/DISCONNECT
CBCAG5	12-10AWG	35A	11mm	50lb	15lb
CBCAG8	8AWG	45A	11mm	50lb	15lb
CBCAG14	6AWG	50A	11mm	50lb	15lb

# BATTERIES

## 80A - 175A 2-Pole

HOUSING	COLOUR	LENGTH	WIDTH	HEIGHT
CBC4/YW	Yellow	79.2mm	53.7mm	24.8mm
CBC4/OR	Orange	79.2mm	53.7mm	24.8mm
CBC4/BU	Blue	79.2mm	53.7mm	24.8mm
CBC4/GY	Grey	79.2mm	53.7mm	24.8mm
CBC4/RD	Red	79.2mm	53.7mm	24.8mm



CONTACT	BARREL	RATING	MAX WIRE	RETENTION FORCE	CONNECT/DISCONNECT
CBCAG14M	6AWG	80A	14.6mm	300lb	25lb
CBCAG22	4AWG	125A	19mm	300lb	25lb
CBCAG38	2AWG	150A	19mm	300lb	25lb
CBCAG60	1/0AWG	175A	19mm	300lb	25lb

## 250A - 350A 2-Pole

HOUSING	COLOUR	LENGTH	WIDTH	HEIGHT
CBC5/YW	Yellow	108mm	69.8mm	33.3mm
CBC5/OR	Orange	108mm	69.8mm	33.3mm
CBC5/GN	Green	108mm	69.8mm	33.3mm
CBC5/BU	Blue	108mm	69.8mm	33.3mm
CBC5/GY	Grey	108mm	69.8mm	33.3mm
CBC5/RD	Red	108mm	69.8mm	33.3mm



CONTACT	BARREL	RATING	MAX WIRE	RETENTION FORCE	CONNECT/DISCONNECT
CBCAG70	2/0AWG	250A	28mm	500lb	30lb
CBCAG80	3/0AWG	275A	28mm	500lb	30lb
CBCAG100	4/0AWG	300A	28mm	500lb	30lb
CBCAG150	250/300AWG	350A	28mm	500lb	30lb

## Rubber Dust Caps

TYPE NO.	COLOUR	LENGTH	WIDTH	HEIGHT
CBCDC3	for CBC3	69mm	38mm	30mm
CBCDC4	for CBC4	69mm	38mm	30mm
CBCDC5	for CBC5	69mm	38mm	30mm



## Connector Handles

TYPE NO.	COLOUR	LENGTH	WIDTH	HEIGHT
CBCHD3	for CBC3	48.7mm	10mm	58.7mm
CBCHD4	for CBC4	48.7mm	10mm	58.7mm
CBCHD5	for CBC5	48.7mm	10mm	58.7mm



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# BATTERIES

## Battery Holders

### PP3 Block Clip Battery Holder

- For 9V batteries.
- Wire length 160mm

TYPE NO.	DESCRIPTION
HL24010056	PP3 Block Clip



### x2 AAA Battery Holder

- For two AAA size batteries
- Dimensions 54 x 24 x 12 mm
- Wire length 200mm

TYPE NO.	DESCRIPTION
HL24010057	x2 AAA Battery Holder



### x1 AA Battery Holder

- For one AA size battery.
- Dimensions 58 x 16 x 13mm
- Wire length 200mm

TYPE NO.	DESCRIPTION
HL24010058	x1 AA Battery Holder



### x2 AA Battery Holder

- For two AA size batteries
- Dimensions 59 x 25 x 16mm
- Wire length 200mm

TYPE NO.	DESCRIPTION
HL24010059	x2 AA Battery Holder



### x4 AA Battery Holder

- For four AA size batteries
- Dimensions 59 x 31 x 24.5mm
- Wire length 200mm

TYPE NO.	DESCRIPTION
HL24010060	x4 AA Battery Holder





# TRANSFORMERS

## Chassis Mounted Transformers

- Single 230V & dual 115V primary windings
- Double section imperial bobbins
- 6 to 200VA power, 50/60Hz
- Temperature class B (130° C)
- Dielectric strength 3750V<sub>rms</sub>
- Manufactured and tested in accordance with EN60950 and EN61558

CTFC



### SPECIFICATION

Maximum winding temperature	55°C
Overall insulation rating	>50M Ohm (at 500V, 20°C)
Flash test (isolation test)	Primary/Secondary/Lamination 2.4KV <sub>rms</sub>
Winding wire	Polyurethane coated IEC317 Grade 1
Tape	3M No 56 or 3M No 1350Y Thermosetting
Core	400/50
Finish	Ultimeg 3.72 Clear

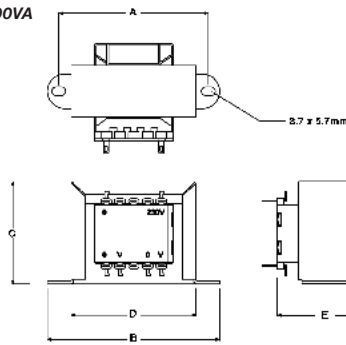
### 6-50 VA L-Clamps

VA RATING	REG % 2	A ±1	B ±1	C ±1	D ±1	E ±1	WEIGHT
6	24	55	68	37	45	36	170g
12	16	74	90	50	60	45	390g
20	12	74	90	50	60	52	530g
50	9	94	106	65	79	58	985g

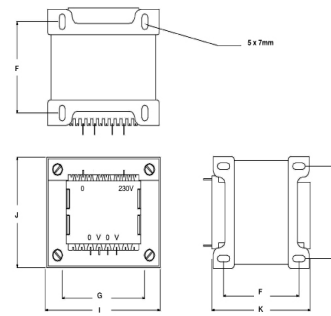
### 75 - 200VA Universal end frames

VA RATING	REG % 2	F ±1	H ±1	I ±1	J ±1	K ±1	WEIGHT
75	8	55	54	80	67	67	1400g
100	10	45	57	89	75	65	1550g
150	9	62	63	88	74	78	2100g
200	8	68	72	102	85	85	2750g

6-100VA



150-200VA



### Single Primary

TYPE NO.	VA	OUTPUT V <sub>ac</sub>	TYPE NO.	VA	OUTPUT V <sub>ac</sub>	TYPE NO.	VA	OUTPUT V <sub>ac</sub>
CTFCS6-5	6	5	CTFCS20-6	20	6	CTFCS100-9F	100	9
CTFCS6-6	6	6	CTFCS20-9	20	9	CTFCS100-12F	100	12
CTFCS6-9	6	9	CTFCS20-12	20	12	CTFCS100-18F	100	18
CTFCS6-12	6	12	CTFCS20-15	20	15	CTFCS100-24F	100	24
CTFCS6-15	6	15	CTFCS20-18	20	18	CTFCS100-50F	100	50
CTFCS6-18	6	18	CTFCS20-20	20	20	CTFCS150-12F	150	12
CTFCS6-24	6	24	CTFCS20-24	20	24	CTFCS150-18F	150	18
CTFCS12-6	12	6	CTFCS50-6	50	6	CTFCS150-24F	150	24
CTFCS12-9	12	9	CTFCS50-12	50	12	CTFCS200-9F	200	9
CTFCS12-12	12	12	CTFCS50-15	50	15	CTFCS200-18F	200	18
CTFCS12-20	12	20	CTFCS50-18	50	18	CTFCS200-24F	200	24
CTFCS12-24	12	24	CTFCS50-24	50	24	CTFCS200-50F	200	50

### Dual Primary

TYPE NO.	VA	OUTPUT V <sub>ac</sub>	TYPE NO.	VA	OUTPUT V <sub>ac</sub>	TYPE NO.	VA	OUTPUT V <sub>ac</sub>
CTFC6-4.5	6	4.5	CTFC12-20	12	20	CTFC50-15	50	15
CTFC6-6	6	6	CTFC12-24	12	24	CTFC50-18	50	18
CTFC6-9	6	6	CTFC20-6	20	6	CTFC50-24	50	24
CTFC6-12	6	12	CTFC20-9	20	9	CTFC75-9F	75	9
CTFC6-15	6	15	CTFC20-12	20	12	CTFC75-20F	75	20
CTFC6-18	6	18	CTFC20-15	20	15	CTFC100-9F	100	9
CTFC6-24	6	24	CTFC20-18	20	18	CTFC100-12F	100	12
CTFC12-6	12	6	CTFC20-20	20	20	CTFC100-20F	100	20
CTFC12-9	12	9	CTFC20-24	20	24			
CTFC12-12	12	12	CTFC50-6	50	6			
CTFC12-15	12	15	CTFC50-9	50	9			
CTFC12-18	12	18	CTFC50-12	50	12			

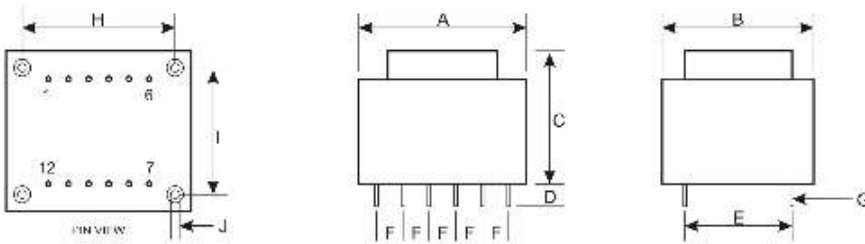
# TRANSFORMERS

## PCB Mounting Encapsulated Transformers

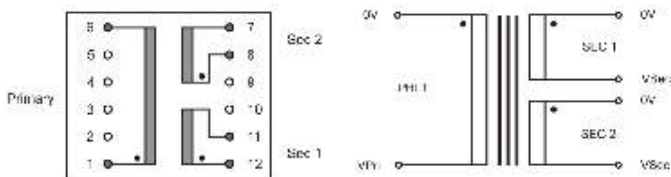
- Single Primary 230V windings
- Dual secondary windings
- 5,6,10VA Power @ 50/60HZ
- Temperature class B (130°C)
- Dielectric strength 3750V<sub>rms</sub>
- UL94-V0 rated materials
- Manufactured and tested in accordance with UL506, EN60950 and EN61558,  $\text{C}\ \text{C}\ \text{E}$



TYPE NO.	VA RATING	A $\pm 0.5$	B $\pm 0.5$	C $\pm 0.5$	D $\pm 1.0$	E $\pm 0.5$	F $\pm 0.2$	G $\pm 0.1$	H $\pm 1.0$	I $\pm 1.0$	OUTPUT	WEIGHT
CTFE5-6	5	44	37	32	4	25	5	Sq 0.8	-	-	6	190g
CTFE5-9	5	44	37	32	4	25	5	Sq 0.8	-	-	9	190g
CTFE5-12	5	44	37	32	4	25	5	Sq 0.8	-	-	12	190g
CTFE5-15	5	44	37	32	4	25	5	Sq 0.8	-	-	15	190g
CTFE5-20	5	44	37	32	4	25	5	Sq 0.8	-	-	20	190g
CTFE6-6	6	44	37	32	4	25	5	Sq 0.8	-	-	6	190g
CTFE6-9	6	44	37	32	4	25	5	Sq 0.8	-	-	9	190g
CTFE6-12	6	44	37	32	4	25	5	Sq 0.8	-	-	12	190g
CTFE6-15	6	44	37	32	4	25	5	Sq 0.8	-	-	15	190g
CTFE6-20	6	44	37	32	4	25	5	Sq 0.8	-	-	20	190g
CTFE10-9	10	51	43	34.5	4	27.5	5	Sq 0.7	40	32	9	330g
CTFE10-12	10	51	43	34.5	4	27.5	5	Sq 0.7	40	32	12	330g
CTFE10-20	10	51	43	34.5	4	27.5	5	Sq 0.7	40	32	20	330g



Unused Pins will be omitted from standard parts.



● Filled pins    ○ Removed Pins    Windings can be connected in Parallel or Series

PCB  
TERMINAL  
BLOCKS

INTER-  
CONNECTION

FUSES &  
FUSE-  
HOLDERS

LEDs &  
INDICATORS

MINIATURE  
SWITCHES

LIMIT &  
SAFETY  
SWITCHES

CONTROL  
PRODUCTS

INTERFACE  
MODULES &  
SUPPORTS

RELAY  
BASES

ENCLOSURES

BATTERIES

TRANS-  
FORMERS



# TRANSFORMERS

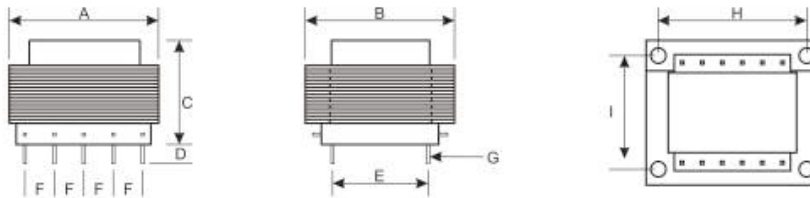
## PCB Mounting Transformers

- Dual Primary 115V windings
- Dual secondary windings
- 3, 6, 12VA Power @ 50/60Hz
- Temperature class B (130°C)
- Dielectric strength 3750Vrms
- UL94-V0 rated material
- Manufactured and tested in accordance with EN60950 and EN61558,  $\text{CE}$

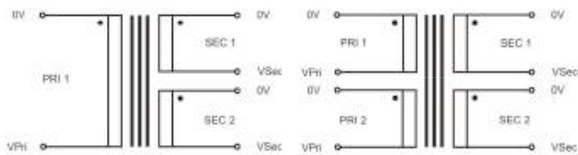
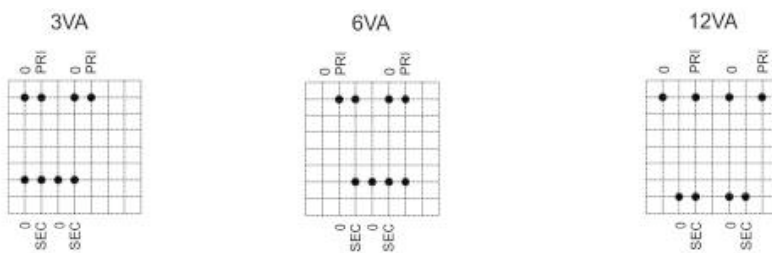
CTFP



TYPE NO.	VA RATING	A $\pm 0.5$	B $\pm 0.5$	C $\pm 0.5$	D $\pm 1.0$	E $\pm 0.5$	F $\pm 0.2$	G $\pm 0.1$	H $\pm 1.0$	I $\pm 1.0$	PCB HOLE	OUTPUT	WEIGHT
CTFP3-6	3	38	32	30	4	25	5	Sq 0.7	-	-	1.2mm	6	140g
CTFP3-9	3	38	32	30	4	25	5	Sq 0.7	-	-	1.2mm	9	140g
CTFP3-12	3	38	32	30	4	25	5	Sq 0.7	-	-	1.2mm	12	140g
CTFP3-15	3	38	32	30	4	25	5	Sq 0.7	-	-	1.2mm	15	140g
CTFP3-20	3	38	32	30	4	25	5	Sq 0.7	-	-	1.2mm	20	140g
CTFP6-6	6	43	36	32	4	25	5	1.0x0.7	45	36	1.2mm	6	180g
CTFP6-9	6	43	36	32	4	25	5	1.0x0.7	45	36	1.2mm	9	180g
CTFP6-12	6	43	36	32	4	25	5	1.0x0.7	45	36	1.2mm	12	180g
CTFP6-15	6	43	36	32	4	25	5	1.0x0.7	45	36	1.2mm	15	180g
CTFP6-20	6	43	36	32	4	25	5	1.0x0.7	45	36	1.2mm	20	180g
CTFP12-9	12	54	45	39	4	30	5	1.0x0.7	-	-	1.2mm	9	340g
CTFP12-12	12	54	45	39	4	30	5	1.0x0.7	-	-	1.2mm	12	340g
CTFP12-20	12	54	45	39	4	30	5	1.0x0.7	-	-	1.2mm	20	340g




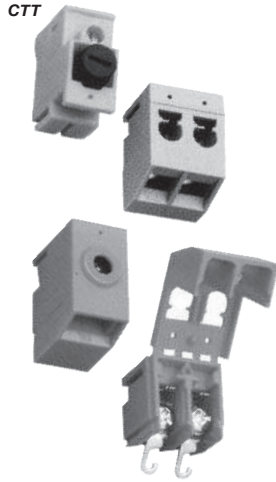
Unused Pins will be omitted from standard parts.



# TRANSFORMERS

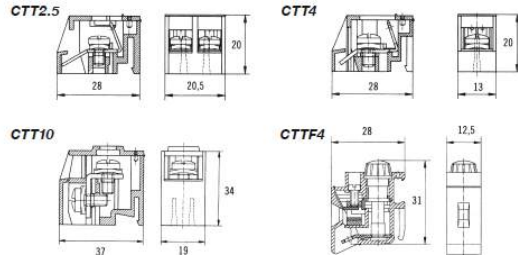
## Transformer Connectors

- Connection terminals protect against external contacts on small transformers
- Orange or grey PA66 insulating body
- Black PA6 fuseholder
- Single or two poles available
- Solder tag or screw connections to transformer
- Screw or Faston connection to external wiring
- For 10 x 2mm mounting rail
- Blank or printed marking tabs available
- CE &  approved



### SPECIFICATION

Isolation voltage	250V AC 3400V AC (CTTF4)
Moulding	PA66 PA6 (CTTF4)
Contacts	Tinned Brass Nickel - Plated Brass (CTTF4)
Screws	Zinc-plated steel



TYPE NO.	COLOUR	POLES	CONNECTING CAPACITY	MIN CONDUCTOR SECTION	TEST CURRENT	TRANSFORMER CONNECTION	EXTERNAL CONNECTION	LENGTH	WIDTH	HEIGHT
CTT2.5	Grey	2	2.5mm <sup>2</sup> / 14AWG	1.0mm <sup>2</sup>	10	2.5mm <sup>2</sup> Solder	Faston 2.8mm or Screw 0.5 to 2.5mm	20.5mm	28mm	20mm
CTT2.5/O	Orange	2	2.5mm <sup>2</sup> / 14AWG	1.0mm <sup>2</sup>	10	2.5mm <sup>2</sup> Solder	Faston 2.8mm or Screw 0.5 to 2.5mm	20.5mm	28mm	20mm
CTT4	Grey	1	4mm <sup>2</sup> / 12AWG	1.5mm <sup>2</sup>	16	4mm <sup>2</sup> Solder	Faston 6.3mm or 2.8mm or Screw 0.5 to 2.5mm <sup>2</sup>	13mm	28mm	20mm
CTT4/O	Orange	1	4mm <sup>2</sup> / 12AWG	1.5mm <sup>2</sup>	16	4mm <sup>2</sup> Solder	Faston 6.3mm or 2.8mm or Screw 0.5 to 2.5mm <sup>2</sup>	13mm	28mm	20mm
CTT10	Grey	1	10mm <sup>2</sup> / 8AWG	4mm <sup>2</sup>	32	10mm <sup>2</sup> Solder	Screw 4 to 10mm <sup>2</sup>	19mm	37mm	34mm
CTT10/O	Orange	1	10mm <sup>2</sup> / 8AWG	4mm <sup>2</sup>	32	10mm <sup>2</sup> Solder	Screw 4 to 10mm <sup>2</sup>	19mm	37mm	34mm
CTTF4/O	Orange	1	4mm <sup>2</sup> / 10AWG	1.5mm <sup>2</sup>	6.3	4mm <sup>2</sup> Solder	Screw 0.5 to 4mm <sup>2</sup>	12.5mm	28mm	31mm

### MARKERS (SOLD IN BLOCKS OF 50)

#### TYPE NO.

CTTM-BLANK  
CTTM-0V  
CTTM-12V  
CTTM-24V  
CTTM-115V  
CTTM-230V

Other voltages available on request

PCB  
TERMINAL  
BLOCKS

INTER-  
CONNECTION

FUSES &  
FUSE-  
HOLDERS

LEDs &  
INDICATORS

MINIATURE  
SWITCHES

LIMIT &  
SAFETY  
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TRANS-  
FORMERS



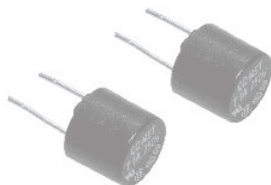
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