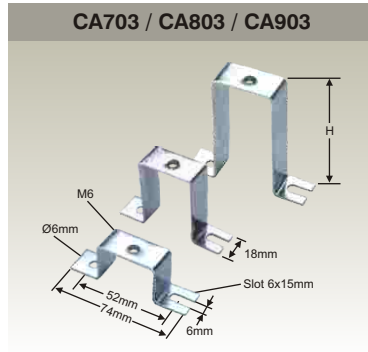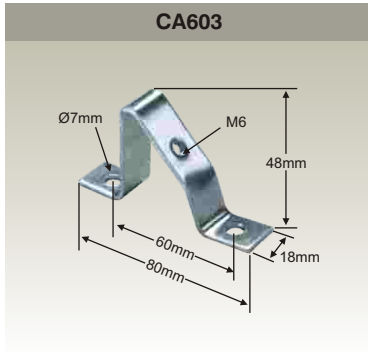# MOUNTING BRACKETS

These are used for better access and increased clearance from the surface of the panel. These brackets are zinc plated & chromate passivated.

CA603 - Can be used to install mounting rails at an angle of 45° to the panel surface.

CA703 / CA803 / CA903 - Are used for fixing mounting rails at different heights.

SPACER

CASP can be used to increase the creepage and clearance distance between the Terminal Blocks and to segregate the different groups of Terminal Blocks.

CDL4USP can be stacked with the **CDL4U(O)** Terminal Block to create a housing for discrete components or small electronic circuits. Similarly CDL4UNSP fits the CDL4UN Terminal Block. The stacked housing can be fitted with an end plate to create a 'touch-proof' housing.

CA603		CA703 / CA803 / CA903			CASP		CDL4USP / CDL4UNSP	

Cat. No.	Std. Pack
CA603	25

Cat. No.	Height(H)	Std. Pack
CA703	25.4mm	25
CA803	50.8mm	25
CA903	76.2mm	25

Cat. No.	Dimension
CASP	43 x 29 x 8 mm

Cat.No.	Dimension
CDL4USP	54 x 55.5 x 6 mm
CDL4UNSP	57 x 58 x 6 mm

END CLAMPS

End Clamps help to secure the entire Terminal Block assembly on the DIN Rail. End Clamps should be fixed on both sides of the Terminal Block assemblies. These End Clamps are designed to fix on DIN 32, DIN 35 and DIN 15 rails. The Polyamide series End Clamps have suitable recesses to accommodate a group marker holder and marking tags for group identification. The steel parts are Zinc plated and Chromate passivated. The **Ca102** and **CA202** are large End Clamps for heavy duty applications. **CA103** is a screwless End Clamp which can be snapped on to the Din Rail.

Cat. No.	CA302	CA402	CA502	CA602
Dimension	39.5 x 27 x 16 mm	39.5 x 27 x 16 mm	25 x 22.5 x 11.5 mm	20 x 28 x 8 mm
Suitable for	DIN 35 Rail	DIN 35-15 Rail	DIN 32 Rail	DIN 15 Rail
Material	Steel	Steel	Steel	Polyamide 66
Std. Pack	50	50	50	50

| Cat. No.	CA702	CA802	CA202	CA102	CA103
Dimension	34 x 44 x 9 mm	45 x 32 x 8 mm	44.5 x 50 x 9.5 mm	46 x 50 x 9 mm	41 x 35 x 6 mm
Suitable for	DIN 32 / DIN 35 / DIN 35-15 Rails	DIN 35 / DIN 35-15 Rails	DIN 35 / DIN 35-15 Rails	DIN 32 / DIN 35 / DIN 35-15 Rails	DIN 35 / DIN 35-15 Rails
Material	Polyamide 66	Polyamide 66	Polyamide 66	Polyamide 66	Polyamide 66
Std. Pack	50	50	50	50	50

GROUP MARKER HOLDER

Two variants of Group Marker Holders are available for identification of Terminal Block assemblies:

GMH1, GMH2, GMH3, GMH4, GMH5 and GMH8 are to be mounted in the grooves of End Clamps.
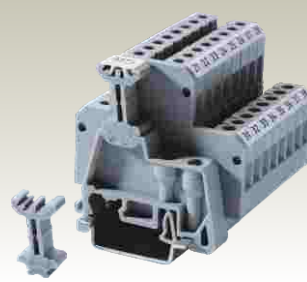CA509/G1 marking tag can be used with these marker holders or can be directly mounted on the end clamp.

GMH6 & GMH7 can be mounted directly on Din Rails. A sticker / paper needs to be inserted in the slot which is covered by a transparent plastic sheet.
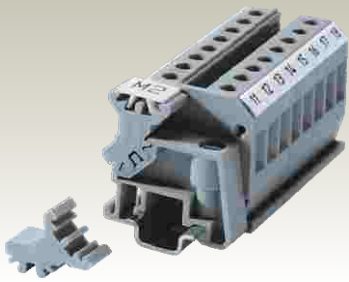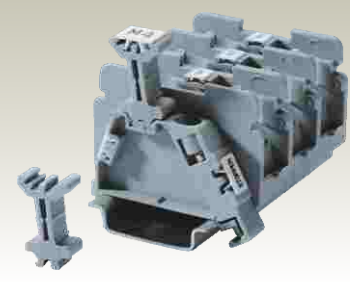
GMH1	GMH2	GMH3
Mountable on CA602	Mountable on CA702	Mountable on CA802
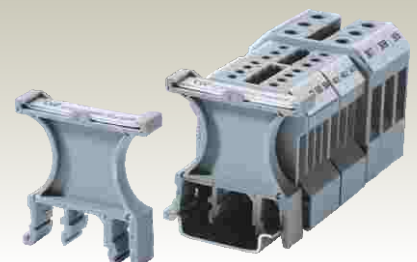
GMH4	GMH5	GMH6
		46.5(H) x 44.5(W) x 9.5(T) mm
Mountable on CA802	Mountable on CA702	Mountable on All Mounting Rails
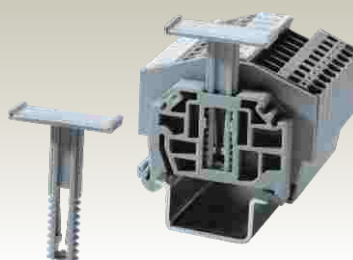
GMH7	GMH8	CA509/G1

	Cat. No.	Std. Pack Tags	Dimensions	
			H	W
	CA509/G1	100	35	17.8

GMH7	GMH8	CA509/G1
46.5(H) x 44.5(W) x 19.5(T) mm		
Mountable on All Mounting Rails	Mountable on CA103	Mountable on all End Clamps

MARKING TAGS

'K' Series Marking Tags

The quick to fix 'K' series Marking Tags facilitate identification of Electrical circuits in a Terminal Block assembly. This in turn makes the maintenance of individual components quicker and hassle free. The tags come with a large surface area providing better visibility. All 'K' series tags are available as strips in which an individual marker can be easily separated. CA509/K6F and CA509/K9F marking tags are continuous strips of 60 mm and 90 mm length respectively. The Marking Tags are available in both printed and blank versions. The printing can be horizontal or vertical in 2 or 3 digits, alphabets or symbols or a combination of these depending on user's requirement.
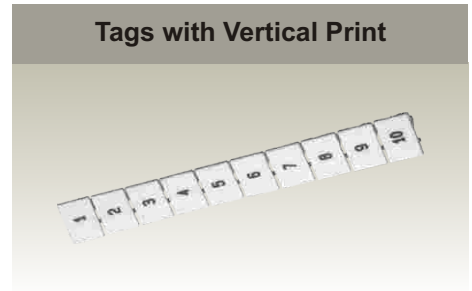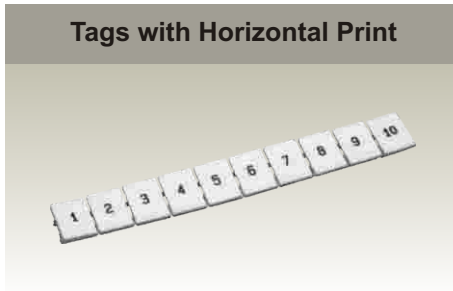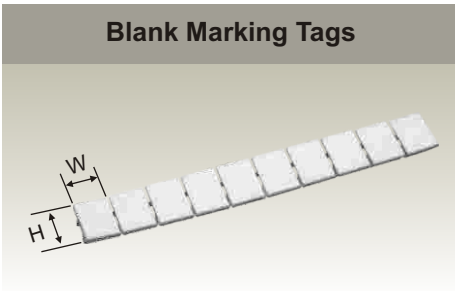
For ordering pre-printed marking tags, the following pattern should be followed:

For a strip of marking tags for CTS2.5UN Terminal Blocks marked horizontally from 1 to 10: CA509/K5/H/1-10 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

For a strip of marking tags for CTS4UN Terminal Blocks marked vertically with alphabet A: CA509/K6/V/A ◁◁◁◁◁◁◁◁◁◁

Blank Marking Tags

Cat. No.	Std. Pack Packet	Strips	Tags	Dimensions H	W
CA509/K2	1	10	100	4.9	5.8
CA509/K3	1	20	100	5.0	10.0
CA509/K4	1	10	100	5.0	4.8
CA509/K5	1	10	100	9.5	4.5
CA509/K6	1	10	100	9.5	5.6
CA509/K6F	1	10	10	9.5	60
CA509/K7.5	1	10	100	5.3	7.5
CA509/K8	1	10	100	10.5	7.5
CA509/K9	1	10	100	10.3	8.7
CA509/K9F	1	10	10	10.3	90.0
CA509/K10	1	20	100	10.4	9.5
CA509/K12	1	20	100	10.4	11.4
CA509/K15	1	20	100	10.4	14.4
CA509/K16	1	20	100	10.5	15.4
CA509/K20	1	20	100	4.9	19.9
CA509/K25	1	20	100	4.9	24.9
CA509/K2G	1	10	100	5.0	5.0
CA509/K2B4	1	10	100	5.8	9.1

Tags with Horizontal Print

Cat. No.	Std. Pack Packet	Strips	Tags	Dimensions H	W
CA509/K2/H	1	10	100	4.9	5.8
CA509/K3/H	1	20	100	5.0	10.0
CA509/K4/H	1	10	100	5.0	4.8
CA509/K5/H	1	10	100	9.5	4.5
CA509/K6/H	1	10	100	9.5	5.6
CA509/K6F/H	1	10	10	9.5	60
CA509/K7.5/H	1	10	100	5.3	7.5
CA509/K8/H	1	10	100	10.5	7.5
CA509/K9/H	1	10	100	10.3	8.7
CA509/K9F/H	1	10	10	10.3	90.0
CA509/K10/H	1	20	100	10.4	9.5
CA509/K12/H	1	20	100	10.4	11.4
CA509/K15/H	1	20	100	10.4	14.4
CA509/K16/H	1	20	100	10.5	15.4
CA509/K20/H	1	20	100	4.9	19.9
CA509/K25/H	1	20	100	4.9	24.9
CA509/K2G/H	1	10	100	5.0	5.0
CA509/K2B4/H	1	10	100	5.8	9.1

Tags with Vertical Print

Cat. No.	Std. Pack Packet	Strips	Tags	Dimensions H	W
CA509/K2/V	1	10	100	4.9	5.8
CA509/K3/V	1	20	100	5.0	10.0
CA509/K4/V	1	10	100	5.0	4.8
CA509/K5/V	1	10	100	9.5	4.5
CA509/K6/V	1	10	100	9.5	5.6
CA509/K6F/V	1	10	10	9.5	60
CA509/K7.5/V	1	10	100	5.3	7.5
CA509/K8/V	1	10	100	10.5	7.5
CA509/K9/V	1	10	100	10.3	8.7
CA509/K9F/V	1	10	10	10.3	90.0
CA509/K10/V	1	20	100	10.4	9.5
CA509/K12/V	1	20	100	10.4	11.4
CA509/K15/V	1	20	100	10.4	14.4
CA509/K16/V	1	20	100	10.5	15.4
CA509/K20/V	1	20	100	4.9	19.9
CA509/K25/V	1	20	100	4.9	24.9
CA509/K2G/V	1	10	100	5.0	5.0
CA509/K2B4/V	1	10	100	5.8	9.1

Warning Label

SWL6 is a 5 position warning label that can be mounted on top of Terminal Blocks. Besides giving visual identification, it also makes an entire DIN Rail Terminal Block assembly completely shock proof. SWL6 warning labels are suitable for CTS6U, CMDB6 and CDB6 series Terminal Blocks.
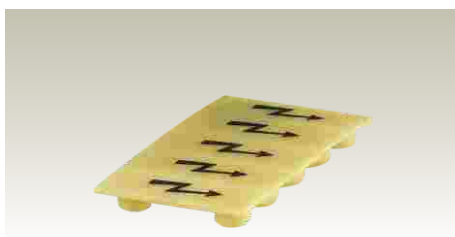
| Cat. No.	Std. Pack Tags	Dimensions H	W
SWL6	50	27	39.5

MARKER PLOTTER SYSTEM

CMPS500BASIC

The CMPS500BASIC unit is an A4 size auxiliary plotter and has to be connected to a computer via a USB connection. It is a high speed plotting device and enables plotting of different markers in one setting. The marker fixture and the plotter pen have to be inserted before commencing the plotting operation. The base unit is primarily controlled through a computer with the help of CMPS software.

Dimensions of the CMPS500BASIC are 440 x 440 x 125 mm.
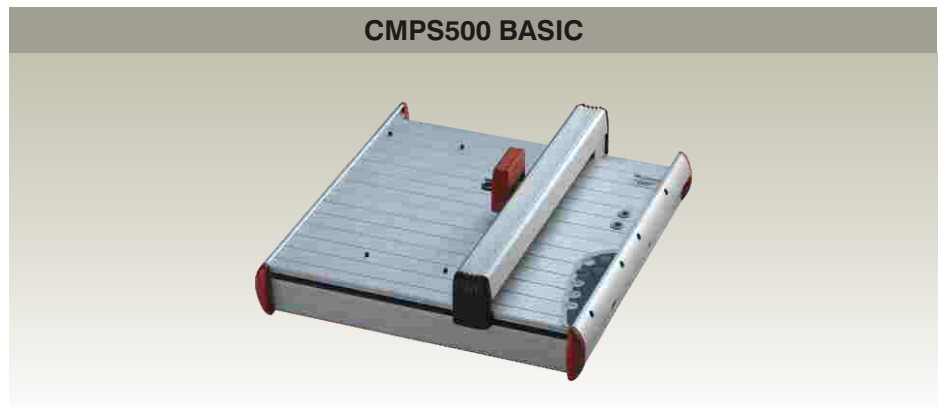
CMPS500 BASIC

Description	Cat. No.
CMPS500BASIC, A4 Size Plotter Unit (includes cable, power adapter & software)	PL-34130009

CMPS500

The CMPS500 base unit is an A3 size auxiliary plotter and has to be connected to a computer via a parallel port or USB connection. It is a high speed plotting device and enables plotting of different markers in one setting. The marker fixture and the plotter pen have to be inserted before commencing the plotting operation. The base unit is primarily controlled through a computer with the help of CMPS software.

Dimensions of the CMPS500 are 660 x 440 x 125 mm.
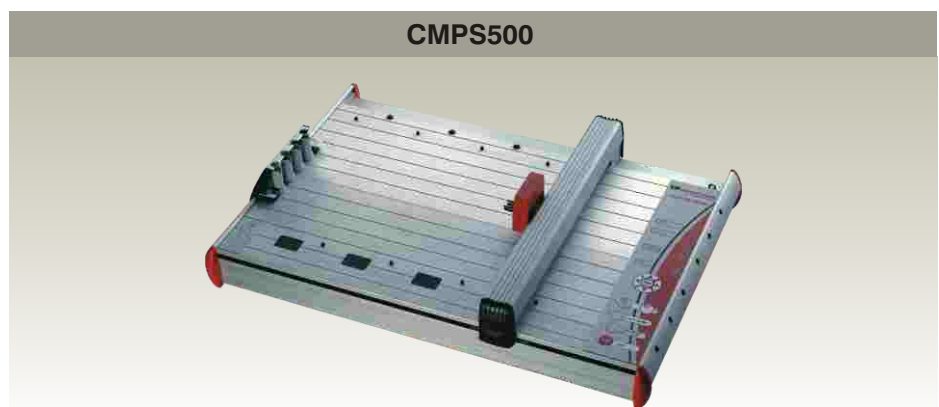
CMPS500

Description	Cat. No.
CMPS500, A3 Size Plotter Unit (includes cable, power adapter & software)	PL-34130012

VE500

The engraving unit was specifically designed to be used with the CMPS500BASIC and CMPS500 plotter systems. Changing back and forth between the pen-plotter and the engraver is easy. The engraver is meant to engrave signs on plastic, alluminium and other soft metals. Legend plates, push button inlays and other signage etc. can easily be produced with the VE500 engraving system.

The engraver also uses the standard CMPS software.

ENGRAVING SYSTEM (VE500)
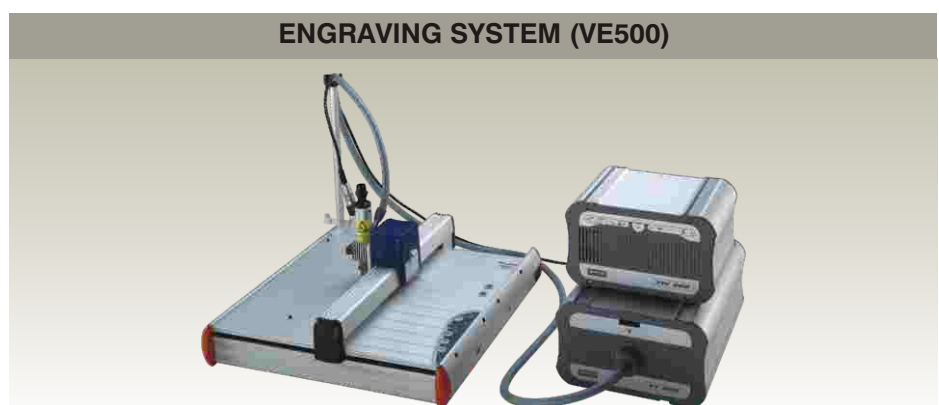
Description	Cat. No.
VE500 ENGRAVER UNIT (CMPS500BASIC or CMPS500 REQUIRED)	PL-34000040

MARKER PLOTTER & ENGRAVER ACCESSORIES

DISPOSABLE PENS

These tubular nib pens are suitable for the CMPS500BASIC and CMPS500 plotters. The disposable pens use a special ink to deliver outstanding durability and print quality with the convenience of a use and throw system. This eliminates the need for messy ink refilling and pen cleaning operation. The ink is fast drying, smudge proof, fade resistant and resistant to chemicals when used on the 'K' series Connectwell marking tags. They are available in 6 sizes differentiated by their body colour.

Tip Width	Cat. No.
0.18 mm	PL-35003118
0.25 mm	PL-35003125
0.35 mm	PL-35003135
0.50 mm	PL-35003150
0.70 mm	PL-35003170
1.00 mm	PL-35003200

FIXTURES

Fixtures are required for alignment of markers with respect to the plotter pen. Different marker fixtures can be mounted on the plotter bed of the CMPS500BASIC and CMPS500 plotters at the same time thereby reducing its set up time.

The CMPS500BASIC plotter bed can accept:
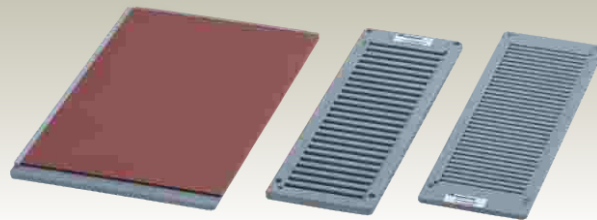2 of the K5 fixtures or
2 of the K2 fixtures or
1 each of the above fixtures or
1 of the K5 triple fixture.

The CMPS500 plotter bed can accept:
4 of the K5 fixtures or
4 of the K2 fixtures or
a combination of the above two fixtures.

Description	For Marking Tag	Holding Capacity	Cat. No.
K5 Fixture	CA509/K5, K6, K8, K10, K12, K16	24 Strips	PL-34902001
K2 Fixture	CA509/K2, K3, K4, K20, K25, K2B4	24 Strips	PL-34902081
K5 Triple Fixture	CA509/K5, K6, K8, K10, K12, K16	72 Strips	PL-34130015
K9 Fixture	CA509/K9	24 Strips	PL-34902057
K2G Fixture	CA509/K2G	25 Strips	PL-34130010
Engraving Support Plate			PL-34902106

ENGRAVING NEEDLES

Engraving needles are selected depending on the media being engraved. For alluminium and other soft metal media, the double tooth cutter in various tip widths can be selected. For plastic media, engraving needles with a 15^0 angle needs to be used. Other engraving needle options are available on request.

Description	Tip Width	Cat. No.
Double Tooth Cutter for Plastic and Alluminium	0.50 mm	PL-35010030
Double Tooth Cutter for Plastic and Alluminium	0.60 mm	PL-35010031
Double Tooth Cutter for Plastic and Alluminium	0.80 mm	PL-35010032
Double Tooth Cutter for Plastic and Alluminium	1.00 mm	PL-35010033
Double Tooth Cutter for Plastic and Alluminium	1.20 mm	PL-35010034
Double Tooth Cutter for Plastic and Alluminium	1.40 mm	PL-35010035
Double Tooth Cutter for Plastic and Alluminium	1.60 mm	PL-35010036
Double Tooth Cutter for Plastic and Alluminium	2.00 mm	PL-35010037
Double Tooth Cutter for Plastic and Alluminium	2.40 mm	PL-35010038
Double Tooth Cutter for Plastic and Alluminium	3.00 mm	PL-35010039
Engraving Needle 15^0 for Plastic	0.20 mm	PL-35010003
Engraving Needle 15^0 for Plastic	0.30 mm	PL-35010002
Engraving Needle 15^0 for Plastic	0.40 mm	PL-35010001
Engraving Needle 15^0 for Plastic	0.50 mm	PL-35010000
Engraving Needle 15^0 for Plastic	0.70 mm	PL-35010004
Engraving Needle 15^0 for Plastic	1.00 mm	PL-35010005
Engraving Needle 15^0 for Plastic Set (0.20 - 1.00 mm)	-	PL-35010006

SPRING CLAMP TERMINAL BLOCK SHORTING LINKS

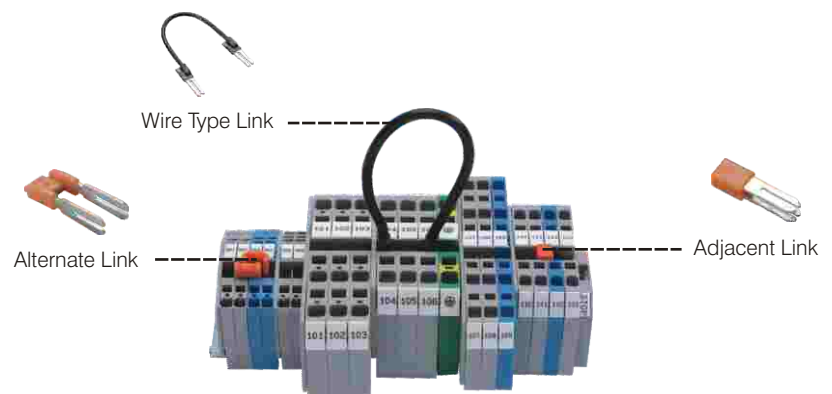## Shorting Links for Spring Clamp Terminal Blocks

Adjacent / Alternate / Wire type links are available for cross connection in Spring Clamp Terminal Blocks. The links need to be inserted (Push-in) into the rectangular slots provided in the current bar of the Terminal Block.

Chain Bridging can be achieved by using Adjacent shorting links.

Wire type shorting links provide flexibility for inter-connection in an assembled block of spring clamp terminals.

Terminal Block	Adjacent Shorting Link		Alternate Shorting Link		Wire Type Shorting Link	
	Cat. No.	Std. Pack.	Cat. No.	Std. Pack.	Cat. No.	Std. Pack.
CSC2.5T Series	CA801/1	100	CA801/1-3	100	CA901/1	100
CSC4T Series	CA801/2	100	CA801/2-3	100	CA901/2	100
CSC6T Series	CA801/3	100	CA801/3-3	100	CA901/3	100
CSC10T Series	CA801/4	100				
CSC16T Series	CA801/5	100				
CSCP2.5T Series	CA803/1	100				
ADL2.5 Series	CA801/1	100	CA801/1-3	100	CA901/1	100
ASF4 Series	CA801/7	100				
AS2.5 Series	CA801/1	100	CA801/1-3	100	CA901/1	100
AS4 Series	CA801/2	100	CA801/2-3	100	CA901/2	100
AS6 Series	CA801/3	100	CA801/3-3	100	CA901/3	100

Wire Type Link — Alternate Link — Adjacent Link

Step Down Shorting Links

These Links help in shorting Spring Clamp Terminal Blocks of different sizes. CA801/8 and CA801/9 are used for shorting adjacent Terminal Blocks of different series. Refer page 82 for detail application.
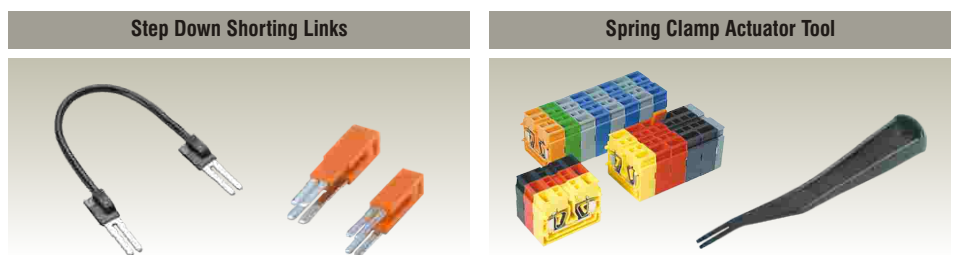
Spring Clamp Actuator Tool

The shorting link of CSCP2.5T / CSCP2.5T2 can be easily inserted by using the Spring Clamp Actuator tool.

Type / Cat. No.	Shorting Link for	Std. Pack
CA901/4	CSC6T Series to CSC4T Series / AS6 Series to AS4 Series	100
CA901/5	CSC6T Series to CSC2.5T Series / AS6 Series to AS2.5 Series	100
CA901/6	CSC4T Series to CSC2.5T Series / AS4 Series to AS2.5 Series	100
CA801/8	CSC6T Series to CSC2.5T Series / AS6 Series to AS2.5 Series	100
CA801/9	CSC10T Series to CSC2.5T Series	100

Type / Cat. No.	Std. Pack
SCA2.5	1

SCREW CLAMP TERMINAL BLOCK SHORTING LINKS

Shorting / Bridging System for Polyamide Screw Clamp Terminal Blocks

The shorting systems bridge potentials between terminal blocks, reducing wiring time. Adjacent blocks or selective terminal blocks within an assembly can be easily interconnected, leaving terminal clamps free for wiring. Preassembled shorting links, which are ready for installation, are used for quick shorting or individual components can be selected to create custom or extra long shorting links. The current carrying capacity of shorting systems is lower than the rated current of the respective Terminal Blocks, therefore applied current must not exceed the maximum current value (IEC/EN) of the Terminal Block.

Preassembled Internal shorting link assemblies

Internal shorting link Assemblies consist of a Current Bar, Shorting Sleeves and screws. They install easily into the center of the terminal block and connect to the current bar. They are available as standard 2, 3, 4, 10 or 100 pole assemblies and are ready for immediate installation. Insulated preassembled internal shorting link assemblies provide shock protection when installed on Terminal Blocks.

Insulated External Shorting Links

External shorting links bridge potentials between terminal blocks, reducing wiring time. Adjacent or selected blocks within an assembly can be easily interconnected. Individual links may be removed for selective shorting. These are insulated and available in 2, 3, 4 and 10 pole versions. They are made of tin plated brass/copper. Insulated External Link must be tightened to the recommended torque specified to get a reliable connection.

Permanent Shorting Links

Shorting Links are used to create custom shorting assemblies for increased number of poles. The current bar with the required number of poles can be selected, or can be cut in the field to the required length. They are made of tin or nickel plated copper or brass.
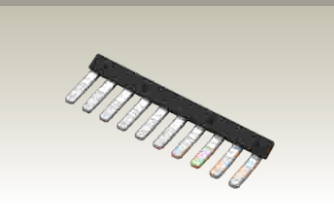
Shorting Sleeves & Screws

Shorting Sleeves & Screws ensure reliable and mechanically safe electrical connections between shorting links and the Terminal Block current bars. One shorting sleeve is required for each shorted Terminal Block. They are made of nickel plated brass. Shorting Sleeve and Screws are supplied with spring washer. The shorting screws must be tightened to the recommended torque specified to get a reliable connection.

1 Internal shorting system not available.
2 100 pole strip can be broken down to any number of poles desired.

Pre Assembled Shorting Link

Insulated Pre Assembled Shorting Link
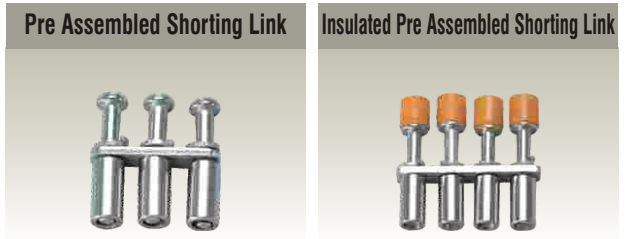
Terminal Series	Poles	Cat. No.	Torque	Std. Pack	Cat. No.	Torque	Std. Pack
CTS2.5UN	2	CA721/2	0.4 Nm	100	CA741/2	0.4 Nm	100
	3	CA721/3		100	CA741/3		100
	4	CA721/4		100	CA741/4		100
	10	CA721/10		10	CA741/10		10
	100[2]	CA721/100		10	CA741/100		10
CTS4UN CMC1-2 CMC2-2 CKT4U[1], 4U/4 CDL4UN CDL4UN(I.S)	2	CA722/2	0.4 Nm	100	CA742/2	0.4 Nm	100
	3	CA722/3		100	CA742/3		100
	4	CA722/4		100	CA742/4		100
	10	CA722/10		10	CA742/10		10
	100[2]	CA722/100		10	CA742/100		10
	10(breakable)						
CTS6U CDTTU[1] CDTTU-SH[1] CSDL6U[1] CSFL6U[1]	2	CA723/2	0.5 Nm	100	CA743/2	0.5 Nm	100
	3	CA723/3		50	CA743/3		50
	4	CA723/4		50	CA743/4		50
	10	CA723/10		10	CA743/10		10
CTS10U	2	CA724/2	0.5 Nm	100	CA744/2	0.5 Nm	100
	3	CA724/3		50	CA744/3		50
	4	CA724/4		50	CA744/4		50
	10	CA724/10		10	CA744/10		10
CTS16U	2	CA751/2	0.8 Nm	50	CA761/2	0.8 Nm	50
	3	CA751/3		50	CA761/3		50
	4	CA751/4		50	CA761/4		50
	10	CA751/10		10	CA761/10		10
CTS25UN	2	CA725/2	0.8 Nm	50	CA745/2	0.8 Nm	50
	3	CA725/3		20	CA745/3		20
	4	CA725/4		20	CA745/4		20
	10	CA725/10		10	CA745/10		10
CTS35UN	2	CA771/2	0.8 Nm	50	CA781/2	0.8 Nm	50
	3	CA771/3		20	CA781/3		20
	4	CA771/4		20	CA781/4		20
	10	CA771/10		10	CA781/10		10
CMT4 CMB4 CDL4U CDL4U(I.S) ODL4U	2	CA727/2	0.4 Nm	100	CA747/2	0.4 Nm	100
	3	CA727/3		100	CA747/3		100
	4	CA727/4		100	CA747/4		100
	10	CA727/10		10	CA747/10		10
	100[2]						
	10(breakable)						
CSDL4U[1] DDFL4U / 4U(E) DDDL4U	2	CA729/2	0.5 Nm	100	CA749/2	0.5 Nm	100
	3	CA729/3		50	CA749/3		50
	4	CA729/4		50	CA749/4		50
	10	CA729/10		10	CA749/10		10
CSFL4U[1] CSFL4U(L)[1] CF4U[1] / CF4U(L)[1]	2						
	3						
	4						
	10						
CAFL4U[1] CAFL4U(L)[1]	2						
	3						
	4						
	10						
CTL2.5U CTL2.5UH CTL2.5UL CTL2.5UHL CTL2.5U(I.S)	2	CA722/2	0.4 Nm	100			
	3	CA722/3		50			
	4	CA722/4		50			
	10	CA722/10		10			
	100[2]	CA722/100		10			
	10(breakable)						

Insulated External Shorting Links

Permanent Shorting Link

Shorting Sleeves & Screws

Cat. No.	Torque	Std. Pack	Cat. No.	Std. Pack	Cat. No.	Torque	Std. Pack
CA717/2	0.4 Nm	100	CA703/01	100	CA707/S/Q/01	0.4 Nm	100
CA717/3		100	CA704/01	100			
CA717/4		100	CA705/01	100			
CA717/10		20	CA731/10	100			
			CA731/100	10			
CA714/2	0.5 Nm	100	CA703/1	100	CA707/S/Q/01	0.4 Nm	100
CA714/3		100	CA704/1	100			
CA714/4		100	CA705/1	100			
CA714/10		20	CA732/10	100			
			CA732/100	10			
			CA732/10-A	100			
CA710/2	0.8 Nm	100	CA703/2	100	CA707/S/Q/1	0.5 Nm	100
CA710/3		50	CA704/2	100			
CA710/4		50	CA705/2	100			
CA710/10		20	CA733/10	100			
CA718/2	0.8 Nm	100	CA703/3	100	CA707/S/Q/1	0.5 Nm	100
CA718/3		50	CA704/3	100			
CA718/4		50	CA705/3	100			
CA718/10		20	CA734/10	100			
			CA703/8	100	CA707/S/Q/1	0.8 Nm	100
			CA704/8	100			
			CA705/8	100			
			CA739/10	100			
			CA703/4	100	CA707/S/Q/2	0.8 Nm	100
			CA704/4	100			
			CA705/4	100			
			CA735/10	100			
			CA703/10	100	CA707/S/Q/2	0.8 Nm	100
			CA704/10	100			
			CA705/10	100			
			CA770/10	100			
CA714/2	0.5 Nm	100	CA703/1	100	CA607/S/Q	0.4 Nm	100
CA714/3		100	CA704/1	100			
CA714/4		100	CA705/1	100			
CA714/10		20	CA732/10	100			
			CA732/100	10			
			CA731/10-A	100			
			CA703/6	100	CA707/S/Q/3	0.5 Nm	100
			CA704/6	100			
			CA705/6	100			
			CA737/10	100			
CA711/2	0.8 Nm	100					
CA711/3		50					
CA711/4		50					
CA711/10		20					
CA716/2	0.8 Nm	50					
CA716/3		50					
CA716/4		50					
CA716/10		20					
CA715/2	0.4 Nm	100	CA703/1	100	CA707/S/Q/01	0.4 Nm	100
CA715/3		100	CA704/1	100			
CA715/4		100	CA705/1	100			
CA715/10		20	CA732/10	100			
			CA732/100	10			
			CA732/10-A	100			

SCREW CLAMP TERMINAL BLOCK SHORTING LINKS

Shorting / Bridging System for Polyamide Screw Clamp Terminal Blocks

The shorting systems bridge potentials between terminal blocks, reducing wiring time. Adjacent blocks or selective terminal blocks within an assembly can be easily interconnected, leaving terminal clamps free for wiring. Preassembled shorting links, which are ready for installation, are used for quick shorting or individual components can be selected to create custom or extra long shorting links. The current carrying capacity of shorting systems is lower than the rated current of the respective Terminal Blocks, therefore applied current must not exceed the maximum current value (IEC/EN) of the Terminal Block.

Preassembled Internal shorting link assemblies

Internal shorting link Assemblies consist of a Current Bar, Shorting Sleeves and screws. They install easily into the center of the terminal block and connect to the current bar. They are available as standard 2, 3, 4, 10 or 100 pole assemblies and are ready for immediate installation. Insulated preassembled internal shorting link assemblies provide shock protection when installed on Terminal Blocks.

Insulated External Shorting Links

External shorting links bridge potentials between terminal blocks, reducing wiring time. Adjacent or selected blocks within an assembly can be easily interconnected. Individual links may be removed for selective shorting. These are insulated and available in 2, 3, 4 and 10 pole versions. They are made of tin plated brass/copper. Insulated External Link must be tightened to the recommended torque specified to get a reliable connection.

Permanent Shorting Links

Shorting Links are used to create custom shorting assemblies for increased number of poles. The current bar with the required number of poles can be selected, or can be cut in the field to the required length. They are made of tin or nickel plated copper or brass.
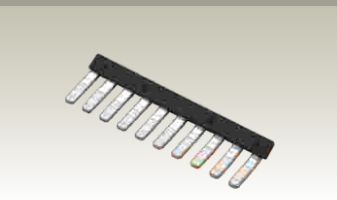
Shorting Sleeves & Screws

Shorting Sleeves & Screws ensure reliable and mechanically safe electrical connections between shorting links and the Terminal Block current bars. One shorting sleeve is required for each shorted Terminal Block. They are made of nickel plated brass. Shorting Sleeve and Screws are supplied with spring washer. The shorting screws must be tightened to the recommended torque specified to get a reliable connection.

		Pre Assembled Shorting Link			Insulated Pre Assembled Shorting Link		
Terminal Series	Poles	Cat. No.	Torque	Std. Pack	Cat. No.	Torque	Std. Pack
CTS4USC CHV4U	2	CA623/2	0.4 Nm	100	CA643/2	0.4 Nm	100
	3	CA623/3		100	CA643/3		100
	4	CA623/4		100	CA643/4		100
	10	CA623/10		10	CA643/10		10
CTS6USC CHV6U	2	CA624/2	0.5 Nm	100	CA644/2	0.5 Nm	100
	3	CA624/3		50	CA644/3		50
	4	CA624/4		50	CA644/4		50
	10	CA624/10		10	CA644/10		10
CTS10USC CHV10U	2	CA625/2	0.5 Nm	100	CA645/2	0.5 Nm	100
	3	CA625/3		50	CA645/3		50
	4	CA625/4		50	CA645/4		50
	10	CA625/10		10	CA645/10		10
CDGL2.5 CTGL2.5	2	CA627/2	0.4 Nm	100	CA647/2	0.4 Nm	100
	3	CA627/3		100	CA647/3		100
	4	CA627/4		100	CA647/4		100
	10	CA627/10		10	CA647/10		10
PTB35/50 PTB35/50SH (Bolt type Shorting System)	2						
	3						
	4						
PTB70/95 PTB70/95SH (Bolt type Shorting System)	2						
	3						
	4						
CTS50/70N CTS50/70NA	2						
	3						
CTS95/120N	2						
	3						

Insulated External Shorting Links

Permanent Shorting Link

Shorting Sleeves & Screws

Cat. No.	Torque	Std. Pack

Cat. No.	Torque	Std. Pack
CA703/1		100
CA704/1		100
CA705/1		100
CA732/10		100
CA613/1		100
CA614/1		50
CA615/1		50
CA632/10		20
CA613/2		100
CA614/2		100
CA615/2		100
CA633/10		100
CA703/1		100
CA704/1		100
CA705/1		100
CA732/10		100
CA703/9	3.0 Nm	10
CA704/9		10
CA705/9		10
CA703/11	6.0 Nm	10
CA704/11		10
CA705/11		10
CA628/2	3.0 Nm	10
CA628/3		10
CA629/2	6.0 Nm	10
CA629/3		10

Cat. No.	Torque	Std. Pack
CA608/S/Q	0.4 Nm	100
CA609/S/Q	0.5 Nm	100
CA610/S/Q	0.5 Nm	100
CA611/S/Q	0.4 Nm	100

Insulated External Shorting Links:

Cat. No.	Torque	Std. Pack
CA715/2	0.4 Nm	100
CA715/3		100
CA715/4		100
CA715/10		20

MELAMINE TERMINAL BLOCK SHORTING LINKS

Preassembled Internal shorting link assemblies

Internal shorting link Assemblies consist of a Current Bar, Shorting Sleeves and screws. They install easily into the center of the Terminal Block and connect to the current bar. They are available as standard 2, 3, 4, 10 or 100 pole assemblies and are ready for immediate installation. Preassembled Insulated internal shorting link assemblies provide shock protection when installed on Terminal Blocks.

Permanent Shorting Links

These are used to create custom shorting assemblies for increased number of poles. The current bar with the required number of poles can be selected, or can be cut in the field to the required length. They are made of tin or nickel plated copper or brass.

Shorting Sleeves & Screws

Shorting Sleeves & Screws ensure reliable and mechanically safe electrical connections between shorting link and the Terminal Block current bars. One shorting sleeve is required for each shorted Terminal Block. They are made of nickel plated brass.

Switchable Shorting Links and Long Shorting Sleeves for temporary shorting

These links are used for switchable cross connection of adjacent Terminal Blocks of the same size. They can be used only in conjunction with the Long Shorting Sleeves and Screws.

			Pre Assembled Shorting Link			**Insulated Pre Assembled Shorting Link**		
Terminal Series	**Poles**		**Cat. No.**	**Torque**	**Std. Pack**	**Cat. No.**	**Torque**	**Std. Pack**
CTS2.5(M)	2		CA521/2	0.4 Nm	100	CA621/2	0.4 Nm	100
	3		CA521/3		100	CA621/3		100
	4		CA521/4		100	CA621/4		100
	10		CA521/10		10	CA621/10		10
CTS2.5 CTS4SC	2		CA522/2	0.4 Nm	100	CA622/2	0.4 Nm	100
	3		CA522/3		100	CA622/3		100
	4		CA522/4		100	CA622/4		100
	10		CA522/10		10	CA622/10		10
CTS6 CTS6SC	2		CA723/2	0.5 Nm	100	CA743/2	0.5 Nm	100
	3		CA723/3		50	CA743/3		50
	4		CA723/4		50	CA743/4		50
	10		CA723/10		10	CA743/10		10
CTS10	2		CA724/2	0.5 Nm	100	CA744/2	0.5 Nm	100
	3		CA724/3		50	CA744/3		50
	4		CA724/4		50	CA744/4		50
	10		CA724/10		10	CA744/10		10
CTS16	2		CA751/2	0.8 Nm	50	CA761/2	0.8 Nm	50
	3		CA751/3		50	CA761/3		50
	4		CA751/4		50	CA761/4		50
	10		CA751/10		10	CA761/10		10
CTS35	2							
	3							
	4							
	10							

STUD TYPE TERMINAL BLOCK SHORTING LINKS

Shorting / Bridging System for Stud type Terminal Blocks

Fork Type Shorting Links

These links have a possibility of quick insertion and removal. The entire nut assembly of the Terminal Block need not be removed for the insertion or removal of these links. They are available in standard 2, 3 or 4 pole configurations. They are also available in an insulated version which provides shock protection when installed on Terminal Blocks.

Ring Type Shorting Links

These links provide a secure, permanent shorting possibility for stud type Terminal Blocks. They are available in standard 2, 3 or 4 pole configurations. They are also available in an insulated version which provides shock protection when installed on Terminal Blocks.

			Fork Type Shorting Link			**Insulated Fork Type Shorting Link**		
Terminal Series	**Poles**		**Cat. No.**	**Torque**	**Std. Pack**	**Cat. No.**	**Torque**	**Std. Pack**
CSTSB3	2		CA512/5-2	0.5 Nm	100	CA514/5-2	0.5 Nm	100
	3		CA512/5-3		50	CA514/5-3		50
	4		CA512/5-4		50	CA514/5-4		50
CSTSB4 / CSTSB5 CSTSB4/N4 CDTTS / CDTTS-SH CMDT4 / CMDT4SH	2		CA512/2-2	1.2 Nm	100	CA514/2-2	1.2 Nm	100
	3		CA512/2-3		50	CA514/2-3		50
	4		CA512/2-4		50	CA514/2-4		50
CSTSN4/N5 CSTSN4U/N5U CSTSB4U/B5U	2		CA512/1-2	1.2 Nm	100	CA514/1-2	1.2 Nm	100
	3		CA512/1-3		50	CA514/1-3		50
	4		CA512/1-4		50	CA514/1-4		50
CSTSN6 CSTSN6U	2		CA512/7-2	1.2 Nm	100	CA514/7-2	1.2 Nm	100
	3		CA512/7-3		50	CA514/7-3		50
	4		CA512/7-4		50	CA514/7-4		50
CSTSN4(15) CSTSN5(15)	2		CA512/9-2	1.2 Nm	100	CA514/9-2	1.2 Nm	100
	3		CA512/9-3		50	CA514/9-3		50
	4		CA512/9-4		50	CA514/9-4		50
CSTSRN5/RN6	2		CA512/11-2	1.2 Nm	50	CA514/11-2	1.2 Nm	50
STH4 STH4DT STH4DTSH	2		CA512/13-2	1.2 Nm	100	CA514/13-2	1.2 Nm	100
	3		CA512/13-3		50	CA514/13-3		50
	4		CA512/13-4		50	CA514/13-4		50

Permanent Shorting Link

Cat. No.	Std. Pack.
CA503/01	100
CA504/01	100
CA505/01	100
CA510/01	100
CA503/1	100
CA504/1	100
CA505/1	100
CA510/1	100
CA703/2	100
CA704/2	100
CA705/2	100
CA733/10	100
CA703/3	100
CA704/3	100
CA705/3	100
CA734/10	100
CA703/8	100
CA704/8	100
CA705/8	100
CA739/10	100
CA503/5	100
CA504/5	100
CA505/5	100
CA510/5	100

Short Sleeves & Screws

Cat. No.	Torque	Std. Pack.
CA507/S/Q/01	0.4 Nm	100
CA707/S/Q/1	0.4 Nm	100
CA707/S/Q/1	0.5 Nm	100
CA707/S/Q/1	0.5 Nm	100
CA707/S/Q/1	0.8 Nm	100
CA508/S/Q	0.8 Nm	100

Switchable Shorting Link

Cat. No.	Std. Pack.
CA506/01	100
CA506/1	100
CA706/2	100
CA706/3	100
CA706/8	100
CA506/5	100

Long Sleeves & Screws

Cat. No.	Torque	Std. Pack.
CA507/L/Q/01	0.4 Nm	100
CA707/L/Q/1	0.4 Nm	100
CA707/L/Q/1	0.5 Nm	100
CA707/L/Q/1	0.5 Nm	100
CA707/L/Q/1	0.8 Nm	100
CA508/L/Q	0.8 Nm	100

Ring Type Shorting Link

Cat. No.	Torque	Std. Pack.
CA512/6-2	0.5 Nm	100
CA512/6-3		50
CA512/6-4		50
CA512/4-2	1.2 Nm	100
CA512/4-3		50
CA512/4-4		50
CA512/3-2	1.2 Nm	100
CA512/3-3		50
CA512/3-4		50
CA512/8-2	1.2 Nm	100
CA512/8-3		50
CA512/8-4		50
CA512/10-2	1.2 Nm	100
CA512/10-3		50
CA512/10-4		50
CA512/12-2	1.2 Nm	50
CA512/14-2	1.2 Nm	100
CA512/14-3		50
CA512/14-4		50

Insulated Ring Type Shorting Link

Cat. No.	Torque	Std. Pack
CA514/6-2	0.5 Nm	100
CA514/6-3		50
CA514/6-4		50
CA514/4-2	1.2 Nm	100
CA514/4-3		50
CA514/4-4		50
CA514/3-2	1.2 Nm	100
CA514/3-3		50
CA514/3-4		50
CA514/8-2	1.2 Nm	100
CA514/8-3		50
CA514/8-4		50
CA514/10-2	1.2 Nm	100
CA514/10-3		50
CA514/10-4		50
CA514/12-2	1.2 Nm	50
CA514/14-2	1.2 Nm	100
CA514/14-3		50
CA514/14-4		50

END PLATES

END PLATES

End Plates are used to cover the live parts of the last Terminal Block. They should be used at the end of an assembly of identical Terminal Blocks and whenever is changed in physical size of the Terminal Block.
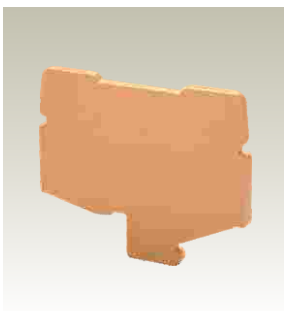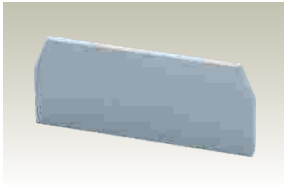
Type / Cat. No.	Std. Pack	Dimension (H x W x T)	Suitable for
EP2.5/4UN	50	32 x 39 x 1.5	CTS2.5UN/2.5UE/4UN/CTT2.5UK/T/J/E
EP6/10U	50	31 x 42.5 x 1.5	CTS6U/CTS10U
EPCMC1-2	50	35.5 x 46.5 x 2.5	CMC1-2
EPCMC2-2	50	40.5 x 65 x 2.5	CMC2-2
EPCDL4U	50	43 x 55 x 2.4	CDL4U/CDL4U(I.S)/ CDL4U(E) Series
EPCDL4UN	50	47.5 x 57 x 1.5	CDL4UN/CDL4UN(I.S)
EPODL4U	50	49 x 68 x 5.5	ODL4U/ODL4UA(Front Side)
EP1ODL4U	50	24 x 68 x 3	ODL4U/ODL4UA(Back Side)
EPCDGL2.5	50	48 x 71.4 x 1.2	CDGL2.5
EPCTL2.5U	50	55.5 x 84 x 1.5	CTL2.5U/2.5UL/2.5U(I.S)
EPCTL2.5UH	50	55.5 x 61 x 1.5	CTL2.5UH/2.5UH(L)/2.5UH(I.S)D2
EPCTGL2.5	50	62.5 x 87.5 x 1.2	CTGL2.5/CTGL2.5(E)MOV
EPCMT4	50	23 x 27 x 1.5	CMT4
EPCMB4	50	27 x 27 x 7	CMB4
EPCSFL4U	50	23.5 x 55.5 x 1.6	CSFL4U/4U(L)/CSDL4U
EPCAFL4U	25	32 x 72 x 1.5	CAFL4U/4UL/4UN
EPDDFL4U	25	49 x 87.6 x 3	DDFL4U/4ULR/4U(E)/4U(E)LR
EPCDTTU	50	41 x 63 x 3	CDTTU/CDTTUSH
EPCKT4U	50	30.5 x 46.5 x 2.5	CKT4U
EPCKT4U/4	50	65 x 38.3 x 1.5	CKT4U/4
EPCDS6U	50	37.2 x 82 x 1.5	CDS6U/6UTS/6UFT/6USC
EPCGT4U	50	40.5 x 43 x1	CGT4U
EPUSC	50	52 x 48.5 x 1.5	CTS4USC/6USC/10USC/CHV4U/6U/10U
EPCTC4U	50	34.5 x 47 x 2.5	CTC4U
EPCSTSU	50	31 x 50 x 1.5	CSTSN4U/N5U/N6U/B4U/B5U
EPSTH4	50	39.5 x 46 x 1.5	STH4
EPSTH4DT	50	37.5 x 86 x 1.5	STH4DT / STH4DTSH
EPCSC2.5T	50	23 x 58 x 1.5	CSC2.5T/CSCG2.5T
EPCSC4T	50	28 x 65 x 1.5	CSC4T/CSCG4T/CSC4TD1/D2
EPCSC6T	50	31.5 x 72 x 2	CSC6T/CSCG6T
EPCSC10T	50	37.5 x 75 x 1.5	CSC10T/CSCG10T
EPCSC16T	50	82 x 38 x 1.5	CSC16T/CSCG16T
EPCSCDK2.5	50	58 x 23.4 x 1.5	CSCDK2.5
EPCSCDK2.5/4	50	89.8 x 25 x 1.5	CSCDK2.5/4
EPCSCP2.5T(L&R)	50	27.3 x 35 x 5	CSCP2.5T/CSCP2.5T2
EPCSC2.5T1-2	50	25 x 74 x 1.5	CSC2.5T1-2
EPCSC2.5T2-2	50	25 x 90 x 1.5	CSC2.5T2-2/CSC2.5T/4(E)D3
EPCSC4T1-2	25	28.5 x 84.5 x 1.5	CSC4T1-2
EPCSC4T2-2	25	28.5 x 105 x 1.5	CSC4T2-2
EPCSC6T1-2	50	94 x 30 x 1.5	CSC6T1-2
EPAS2.5	50	35 x 54 x 1.5	AS2.5, 2.5/3, 2.5/4, AGT2.5, 2.5/3, 2.5/4
EPAS4	50	27.5 x 61 x 1.5	AS4, 4/3, 4/4, AGT4, 4/3, 4/4
EPAS6	50	33.5 x 74 x 1.5	AS6, 6/3, AGT6, 6/3
EPASF4	50	37 x 86 x 1.5	ASF4/ASF4L
EPADL2.5	50	43.5 x 80 x 1.5	ADL2.5/ADL2.5(E)D1/D2
EPADLG2.5	50	83.75 x 58 x 1.2	ADLG2.5
EPATL2.5	50	100 x 69.7 x 1.2	ATL2.5
EPATL2.5H	50	77.3 x 69.7 x 1.2	ATL2.5H
EPATLG2.5	50	100 x 68.75 x 1.2	ATLG2.5
CTSEP01	50	31 x 36.5 x 1.8	CTS2.5(M)
CTSEP1	50	49 x 40 x 2.7	CTS2.5/6/10/4SC/6SC
CTSEP2	50	54 x 49.5 x 3	CTS16
CTSEP3	50	52 x 58 x 2.7	CTS35
CTSEP1SC	50	43.5 x 50 x 2.5	CTS10SC
CSTSEP2	50	44.5 x 50 x 3	CSTSB3/B4/B5/N4/N5/N4(15)/N5(15)/N6
CSTSREP	50	48.5 x 43 x 3	CSTSRN5/CSTSRN6
CDTEP	50	56 x 68 x 3.2	CDTTS/CDTTS-SH
EPCMDT4	50	48.7 x 68 x 2.4	CMDT4/CMDT4SH

PARTITION & SEPARATOR PLATES

PARTITION PLATES

Partition Plates are used to segregate different groups of Terminal Blocks and provide the required creepage and clearance values in an assembly. Partition Plates electrically isolate adjacent shorting links. They also provide a separation between Terminal Blocks of different potentials.

For visual separation of different circuits, a choice of coloured End Plates and Partition Plates are also available.

Partition Plates

Type / Cat. No.	Std. Pack	Dimension (H x W x T)	Suitable for
PP2.5/4UN	50	37 x 44 x 1.6	CTS2.5UN/2.5UE/4UN/CTT2.5UK/T/J/E
PP6/10U	50	37.5 x 56 x 1.5	CTS6U/CTS10U
PP25UN	50	42.5 x 62 x 1	CTS25UN
PP35UN	50	50 x 64.5 x 1	CTS35UN
PPCMT4	50	32 x 37 x 1.6	CMT4
PPCSFL4U	50	42.5 x 62 x 1.5	CSFL4U/4U(L)/CSDL4U
PPCSC2.5T	50	28 x 58.7 x 1.5	CSC2.5T/CSCG2.5T
PPCSC4T	50	33 x 65 x 1.5	CSC4T/CSCG4T
PPCSC6T	50	36.5 x 72 x 2	CSC6T/CSCG6T
CTSPP01	50	43.5 x 49 x 2.3	CTS2.5(M)
CTSPP1L	50	63 x 40 x 2.8	CTS2.5/6/10/4SC/6SC
CTSPP1B	50	60 x 55 x 3	CTS2.5/6/10/4SC/6SC
CTSPP2	50	66.5 x 66 x 3	CTS16
CTSPP3	50	59 x 67.5 x 3	CTS35
CTSPP1SC	50	48 x 60 x 3	CTS10SC
CMSTPP	50	23 x 27 x 1.5	CMST1/CMST2
CSTSPP	20	53 x 60 x 3	CSTSB3/B4/B5/N4/N5/N4(15)/N5(15)/N6
EP4P	50	70 x 160 x 2	CTS35L/70L/95L/35LS/70LS/95LS
CTSEP4	50	5 x 120 x 2.5	CTS35L/70L/35LS/70LS

SEPARATOR PLATES

Separator Plates are used for electrical separation of adjacent shorting links without the use of additional space. They can be inserted after the Terminal Blocks have been assembled on the DIN rail.

Separator Plates

Type / Cat. No.	Std. Pack	Dimension (H x W x T)	Suitable for
SP2.5/4UN	100	17.5 x 17.4 x 1.4	CTS2.5UN/2.5UE/4UN/CTT2.5UK/T/J/E
SP6/10U	100	15.4 x 16.2 x 1.5	CTS6U/CTS10U/CTS16U
SPCDL4U	100	15.4 x 16.2 x 1.6	CDL4U/4UN/CDL4U(I.S)/4UN(I.S)
SPCMB4	100	14.5 x 12 x 1.5	CMB4
SPCDLG2.5	100	11 x 10.5 x 1	CDGL2.5

PROTECTIVE COVERS

For protection against dust and shock, transparent protective covers can be installed above the Terminal Block assembly. The protective cover is held in place with the help of a fixing nut on the support plate CSP1. Support Plate CSP1 can be mounted on all DIN rails. It is advised to use standard end clamps / stops to hold the CSP1 in place.

Protective Covers / Support Plate

Protective Covers		
Cat. No.	Length	Std. Pack
CTSPC(40mm)	40 mm	10
CTSPC(90mm)	90 mm	10
CTSPC(100mm)	100 mm	10
CTSPC(130mm)	130 mm	10
CTSPC(150mm)	150 mm	10
CTSPC(200mm)	200 mm	10
CTSPC(300mm)	300 mm	10
CTSPC(330mm)	330 mm	10
CTSPC(460mm)	460 mm	10

Support Plate	
Cat. No.	Std. Pack
CSP1	50