



## **Distribution Blocks & Bus-bar Solutions**

**Insulated Multi Laminate Flexible Copper Bus-bars**

**Threaded Copper Bus-bars**

**Solid Copper Bus-bars**

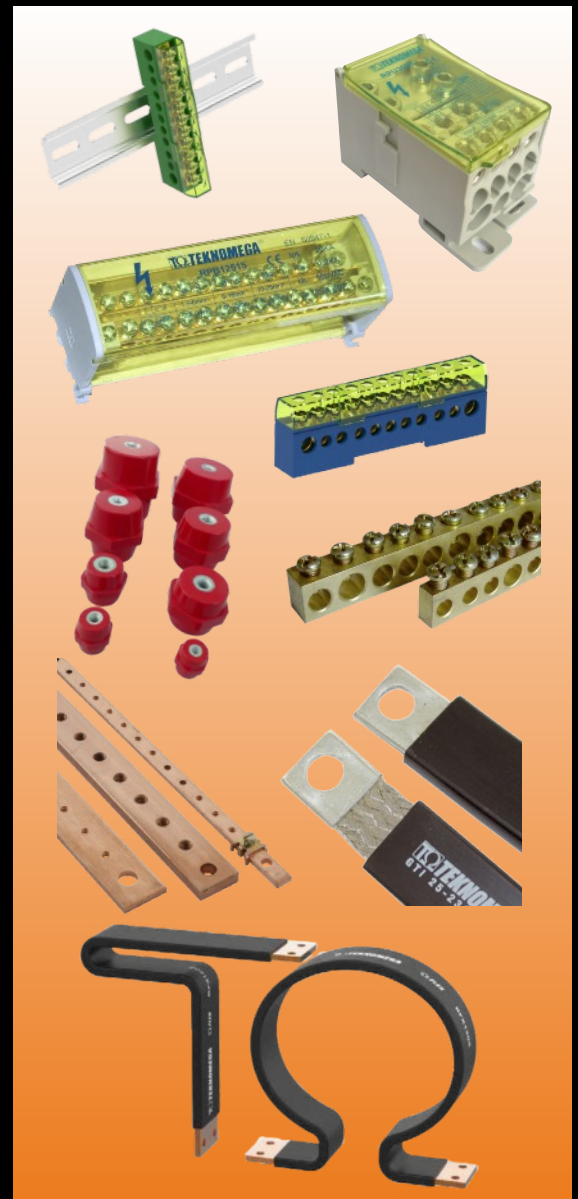
**Bus-bar Insulators & Supports**

**Insulated Flexible Copper Braided Links**

**Brass Earthing & Neutral Bars**

**Single, Double, Triple & Four Pole Distribution Blocks**

**Unipolar Distribution Blocks**



# INSULATED MULTI LAMINATE FLEXIBLE COPPER BUS-BARS

## TYPE: BFX

### FEATURES

- Supplied in 2 metre lengths
- Easy & quick shaping due to laminate flexibility
- Increased safety due to insulation
- Max rated voltage 1000VAC / 1500VDC
- UL certified

### DESCRIPTION

Teknomega flexible multi laminate copper bus-bars are manufactured of red copper laminates (Cu ETP) coated with an extruded PVC insulation which gives excellent electrical insulation even in the presence of aggressive temperatures and environments. Supplied in 2 metre lengths, flexible bus-bars is an ideal alternative to cable or rigid copper bars in the connection of electrical devices, especially the handling of higher currents within a control panel environment rather than a full blown switchboard.

### ORDERING INFORMATION

P/No	Width mm*	Reference**	Temperature Rise 50°C*** Above Ambient Max Amps	Section mm²	Max Fault Amps 1sec
BFX1035	15.5	2x15.5x0.8	320	50	4314
BFX1050	15.5	10x15.5x0.8	440	124	10784
BFX1055	20	2x20x1	280	40	3479
BFX1060	20	3x20x1	350	60	5218
BFX1085	24	2x24x1	350	48	4174
BFX1090	24	3x24x1	400	72	6262
BFX1100	24	5x24x1	510	120	10436
BFX1125	32	3x32x1	490	96	8349
BFX1135	32	5x32x1	650	160	13915
BFX1200	50	5x50x1	925	250	21742
BFX1215	50	10x50x1	1380	500	35150

\*The insulation thickness is 2mm, therefore the maximum width including insulation increases by 4mm

\*\*Reference example BFX1100 5x24x1 = 5 laminates of 24mm width and 1mm thickness

\*\*\*Other temperature rise current figures of between 20°C and 65°C available on request

### SPECIFICATIONS

#### Conductor

Material: Electrolytic copper Cu-ETP  
Purity: 99.9%

#### Insulation

Material: Self extinguishing PVC UL94-VO  
Thickness: 2mm

#### Finished Product

Dielectric rigidity: 20KV/mm  
Max rated voltage: 1000VAC / 1500VDC  
Working Temp. range: -40°C to +105°C

#### Approvals

Calculations to: IEC 61439-1  
UL file No. E300607



# INSULATED FLEXIBLE COPPER BRAIDED LINKS

## TYPE: GTI

### FEATURES

- Supplied in a variety of lengths
- Easy & quick shaping due to flexibility
- No cutting, stripping or crimping required
- Max rated voltage 1000VAC / 1500VDC up to 630 Amps
- UL certified



PRODUCT  
GROUP  
**LL**

### DESCRIPTION

Teknomega insulated flexible copper braided links are manufactured in tinned copper braid (Cu-ETP). The braid being made of 0.15mm<sup>2</sup> copper wire and coated with an extruded PVC insulation which gives excellent electrical insulation even in the presence of aggressive temperatures and environments. The end connection terminals are made of pressed tinned copper tube and are designed with respect to the hole sizes being compatible with most switchgear equipment on the market and connection to a wider bus-bar distribution systems. Supplied in a variety of lengths and rating sizes, these flexible links are an ideal alternative to cable.

### ORDERING INFORMATION

P/No	Section mm <sup>2</sup>	Recommended for Use With Switch Size	Dimensions mm								
			L	B	H	L1	L2	d1	d2	S	Insulation
GTI1000	25	125 Amps	230	20	20	7.5	7.5	8.5	10.5	3.5	1.0
GTI1005	25	125 Amps	330	20	20	7.5	7.5	8.5	10.5	3.5	1.0
GTI1010	25	125 Amps	430	20	20	7.5	7.5	8.5	10.5	3.5	1.0
GTI1025	35	160 Amps	230	20	20	9	9	8.5	10.5	4.2	1.0
GTI1030	35	160 Amps	330	20	20	9	9	8.5	10.5	4.2	1.0
GTI1035	35	160 Amps	430	20	20	9	9	8.5	10.5	4.2	1.0
GTI1050	50	250 Amps	230	20	20	9	9	8.5	10.5	5	1.2
GTI1055	50	250 Amps	330	20	20	9	9	8.5	10.5	5	1.2
GTI1060	50	250 Amps	430	20	20	9	9	8.5	10.5	5	1.2
GTI1065	50	250 Amps	530	20	20	9	9	8.5	10.5	5	1.2
GTI1075	120	400 Amps	330	30	30	11	15	10.5	10.5	7	1.8
GTI1080	120	400 Amps	430	30	30	11	15	10.5	10.5	7	1.8
GTI1100	240	630 Amps	330	35	32	16	15	12.5	10.5	12	2.0

### SPECIFICATIONS

#### Conductor

Material: Tinned electrolytic copper braid Cu-ETP  
Purity: 99.9%  
Braid wire: 0.15mm<sup>2</sup>

#### Insulation

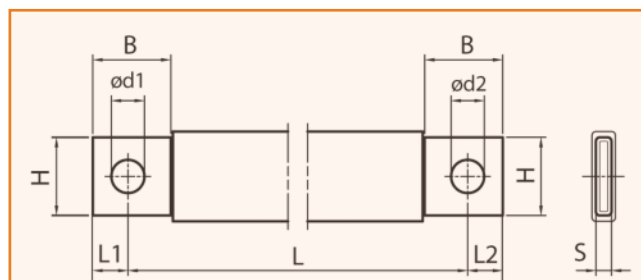
Material: Self extinguishing PVC UL94-VO  
Thickness: Various see above table

#### Finished Product

Dielectric rigidity: 20KV/mm  
Max rated voltage: 1000VAC / 1500VDC  
Working Temp. range: -40°C to +105°C

#### Approvals

Calculations to: IEC 61439-1  
UL file No. E300607



# COPPER BUS-BARS

## SOLID COPPER BUS-BARS

### TYPE: PRP

#### FEATURES

- Supplied in 1.75 metre lengths
- Ideal for occasional small users
- Rounded corners

#### DESCRIPTION

Teknomega solid copper bus-bars are manufactured in electrolytic copper (Cu-ETP) 99.9% purity and are available in 1.75 metre lengths. These are ideal for the occasional or small users of solid bus-bars as an alternative to using a metal stock merchant who may have minimum order requirements.

#### ORDERING INFORMATION

P/No	Reference*	Temperature Rise 50°C** Above Ambient Max Amps	Section mm <sup>2</sup>
PRP2000	20x5	363	100
PRP2005	25x5	433	125
PRP2020	50x5	772	250
PRP2045	30x10	756	300
PRP2055	50x10	1129	500
PRP2060	60x10	1305	600
PRP2065	80x10	1643	800
PRP2070	100x10	1974	1000

\*Reference example PRP2055 50x10 = width 50mm, thickness 10mm, length 1.75 metre

\*\*Temperature rise/max Amps for a single bar, figures on request available for multiple bars in parallel

#### SPECIFICATIONS

##### Conductor

Material:	Electrolytic copper Cu-ETP
Purity:	99.9%
Tensile strength:	250 N/mm <sup>2</sup>
Resistance:	0.0172 Ohms mm <sup>2</sup> /m



PRODUCT  
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**LL**

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## THREADED COPPER BUS-BARS

### TYPE: BRF

#### FEATURES

- Supplied in 1 metre & 2 metre lengths
- Pre-punched & threaded
- Rounded corners
- Time saving

#### DESCRIPTION

Teknomega threaded copper bus-bars are manufactured in electrolytic copper (Cu-ETP) 99.9% purity and are available depending on size in either 1 metre or 2 metre lengths. Pre-punched and threaded, they save time for tapping off to other electrical circuits.

#### ORDERING INFORMATION

P/No	Reference*	Temperature Rise 50°C** Above Ambient Max Amps	Section mm <sup>2</sup>	Hole Pitch mm	Thread Size
BRF1000	12x4x1000	212	48	18	M5
BRF1005	12x5x1000	241	60	18	M5
BRF1010	15x5x1000	289	75	25	M6
BRF1015	20x5x1000	363	100	25	M6
BRF1017	25x5x1000	433	125	25	M6
BRF1025	12x4x2000	212	48	18	M5
BRF1030	15x5x2000	289	75	25	M6
BRF1042	32x5x2000	639	160	25	M8

\*Reference example BRF1010

15 x 5 x 1000 = width 15mm, thickness 5mm, length 1 metre

\*\*Temperature rise/max Amps for a single bar, figures on request available for multiple bars in parallel

#### SPECIFICATIONS

##### Conductor

Material:	Electrolytic copper Cu-ETP
Purity:	99.9%
Tensile strength:	250 N/mm <sup>2</sup>
Resistance:	0.0172 Ohms mm <sup>2</sup> /m



# BUS-BARS INSULATORS & SUPPORTS

## TYPE: CPH

### FEATURES

- Polyester reinforced with fibreglass
- Compression moulded
- Wide choice of sizes



PRODUCT  
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### DESCRIPTION

Teknomega "stand off" insulators are used as insulating supports for live conductors to ensure excellent electrical insulation capability. They can be utilised for many applications from the support of small live bus-bars and the mounting and/or support of electrical equipment, or for general applications where increased rigidity, stiffening or spacing is required. Available in a selection of sizes, all Teknomega insulators pass stringent tests with regards to both mechanical and electrical parameters.

### ORDERING INFORMATION

P/No	H mm	Ch mm	D mm	E mm	M	F mm	Tightening Max Nm	R.T. daN	R.C. daN	R.F. daN
CPH2020	25	22	18	6	M6	9	10	340	2900	220
CPH2025	30	30	25	7	M6	9	10	580	5900	460
CPH2035	35	32	28	10	M6	9	10	710	9000	400
CPH2040	35	32	28	10	M8	10	25	710	9000	510
CPH2045	35	32	28	10	M10	10	50	710	9000	480
CPH2048	35	41	35	10	M10	10	50	790	13000	670
CPH2060	40	41	34	12	M10	10	50	800	12000	500
CPH2075	45	46	39	13	M10	15	50	1100	14000	650
CPH2090	50	46	37	10	M10	20	50	1100	12000	550

R.T. = Tensile strength

R.C. = Compressive strength

R.F. = Flexural strength

### SPECIFICATIONS

#### Materials

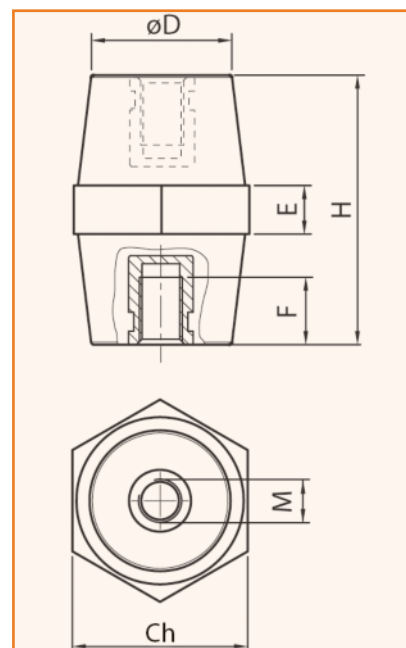
Material: Thermosetting polyester reinforced with 20% fibreglass  
Fire safety: Self extinguishing VO-UL94  
Colour: Red RAL3031  
Threaded inserts: Galvanized steel

#### Finished Product

Max rated voltage: 1000VAC / 1500VDC  
Working Temp. range: -40°C to +130°C

#### Test Standards

Mechanical & electrical: EN60664-1 & EN61439-1

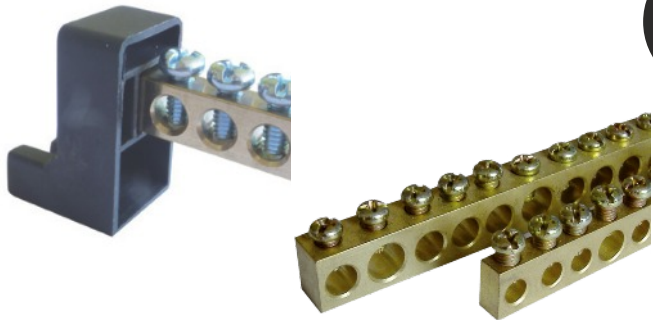


# BRASS EARTHING & NEUTRAL BARS

## TYPE: MRS

### FEATURES

- Solid brass
- Galvanized steel crosshead screws
- Length 1 metre
- Easily cut to required length
- Optional supports available



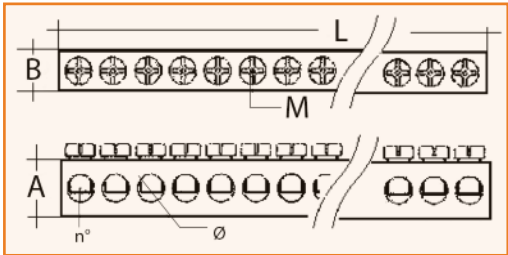
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### DESCRIPTION

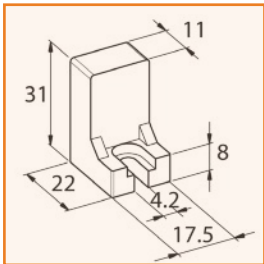
Teknomega solid brass Earthing and Neutral bars in two size options, both in 1 metre lengths and easily cut to any length if required. Complimented with optional terminal supports if the bar is required to be “floating”.

### ORDERING INFORMATION

P/No	L mm	A mm	B mm	M	Dia. Holes mm	No. Holes
MRS1501	1000	9	6	M4	5.2	113
MRS1506	1000	12	8	M5	6.5	116



P/No	Description
MRS7000	Optional bar support for MRS1501
MRS7005	Optional bar support for MRS1506



### FEATURES

- Solid brass
- Galvanized steel crosshead screws
- Complete with M6 end fixing flanges & spacers
- Suitable for mounting on copper bar or on insulators

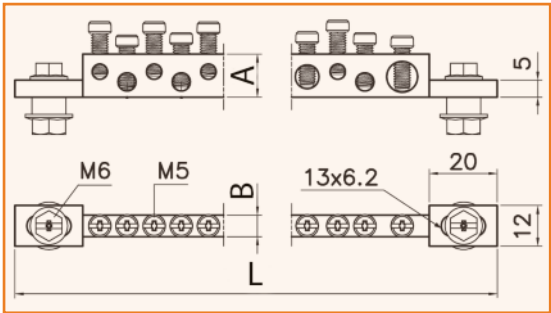


### DESCRIPTION

Teknomega solid brass Earthing and Neutral bars in two length options with a selection of hole sizes (see table below). Complete with end fixing flanges, the fixings and spacers, therefore suitable for mounting directly on to copper bar or on to insulators if the bar is required to be “floating”.

### ORDERING INFORMATION

P/No	L mm	A mm	B mm	Dia. (mm) & Number of Holes
MRS2000	215	13	6	9.1 x 1, 7.0 x 3, 5.3 x 8, 4.5 x 8
MRS5000	462	13	6	9.1 x 1, 7.0 x 6, 5.3 x 24, 4.5 x 19





# COMPACT SINGLE & THREE POLE DISTRIBUTION BLOCKS

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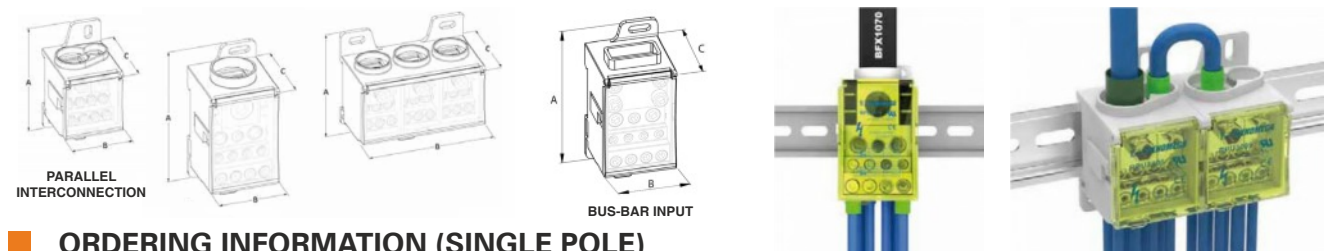
## TYPES: RPU & RPT

### FEATURES

- Din rail or direct chassis mounting
- Ratings from 80 Amps to 500 Amps
- Hinged front protection cover
- Hexagonal socket set screws
- Nominal insulation voltage 690V
- Parallel interconnection versions

### DESCRIPTION

Teknomega compact single pole and three pole distribution blocks are Din rail mounted and are available in six rating sizes, 80 Amps, 125 Amps, 160 Amps, 250 Amps, 400 Amps and 500 Amps. The input side accepting either a bare stripped conductor or a conductor with a ferrule over a range of cable sizes, except for the RPU3020 500 Amp unit which accepts bus-bar on the input. The distribution blocks have a range and number of output terminal sizes depending on the rating size (see ordering information below).



### ORDERING INFORMATION (SINGLE POLE)

P/No	Rating Amps	Dimensions mm			Input terminal size mm <sup>2</sup>		Output terminals No. of & Dia. mm
		A	B	C	Bare wire	Ferruled	
RPU2995	80 A	66	30	46	6-16	6-16	2x6.8 & 4x4.5
RPU3000	125 A	75	40	48	10-35	10-35	8x6.8 *
RPU3005	160 A	75	40	48	10-70	10-50	8x6.8 *
RPU3010	250 A	96	47	50	35-120	35-95	2x9 & 5x6.8 & 4x6.1
RPU3015	400 A	96	47	50	95-185	95-120	2x9 & 5x6.8 & 4x6.1
RPU3020	500 A	96	47	50	Bus-bar up to 24x9mm		2x9 & 5x6.8 & 4x6.1

\*Types RPU3000 & RPU3005 also have an input/output terminal, dimensions 8.7x6mm for parallel interconnection if required

### ORDERING INFORMATION (THREE POLE)

P/No	Rating Amps	Dimensions mm			Input terminal size mm <sup>2</sup>		Output terminals No. of & Dia. mm
		A	B	C	Bare wire	Ferruled	
RPT3000	125 A	75	85	48	10-35	10-35	6x6.8
RPT3005	160 A	75	85	48	10-70	10-50	6x6.8

### SPECIFICATIONS

#### Materials

Insulating body: PA66 UL94-V0, grey RAL7035  
Cover: PC UL94-V0, transparent yellow

#### Conduction Block

Tinned copper: RPU2995, RPU3000, RPU3005, RPU3015  
Brass: RPU3010, RPT3000, RPT3005  
Clamps & screws: Galvanised steel

#### Ratings

Single pole: 80, 125, 160, 250, 400, 500 Amps  
Three pole: 125, 160 Amps  
Max voltage: 690V

#### Safety & Standards

Index protection: IP20  
Standard: EN60947-7-1  
Short circuit: Figures to standard IEC947-7-1

#### Short Circuit Current Duration 1 Sec

RPU2995: 3.0 KA  
RPU3000: 4.4 KA  
RPU3005: 11 KA  
RPU3010: 21 KA  
RPU3015: 21 KA  
RPU3020: 21 KA  
RPT3000: 4.4 KA  
RPT3005: 11 KA

# TWO POLE & FOUR POLE DISTRIBUTION BLOCKS

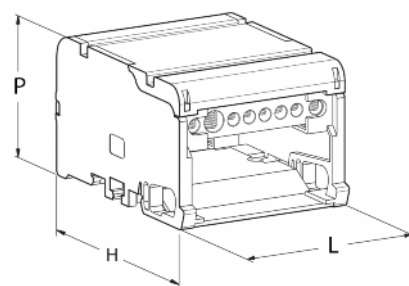
## TYPES: RPB & RPQ

### FEATURES

- Din rail mounting
- Ratings from 40 Amps to 160 Amps
- Removable transparent protection cover
- Nominal insulation voltage 500V (160 Amps, 600V)

### DESCRIPTION

Teknomega two pole and four pole distribution blocks are Din rail mounted and are available in four rating sizes, 40 Amps, 80 Amps, 125 Amps and 160 Amps. The input side accepting either a bare stripped conductor or a conductor with a ferrule over a range of cable sizes. The distribution blocks have a range and number of output terminal sizes depending on the rating size (see ordering information below).



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### ORDERING INFORMATION (FOUR POLE)

P/No	Rating Amps	Dimensions mm			Input terminal size mm <sup>2</sup>		Output terminals No. of & Dia. mm
		L	H	P	Bare wire	Ferruled	
RPQ0980	40 A	66	84	50	2.5-6	1.5-6	1x5.5 & 4x4 & 3x3
RPQ0985	40 A	100	84	50	2.5-6	1.5-6	1x5.5 & 7x4 & 6x3
RPQ0990	80 A	66	84	50	10-25	6-16	5x4.5 & 2x5
RPQ0995	80 A	100	84	50	10-25	6-16	1x7.5 & 8x4.5 & 2x5 & 1x6
RPQ1000	125 A	66	84	50	10-35	10-25	5x5.5 & 1x7.5
RPQ1005	125 A	100	84	50	10-35	10-25	1x9 & 2x7.5 & 7x5.5
RPQ1010	125 A	132	84	50	10-35	10-25	1x9 & 2x7.5 & 11x5.5
RPQ1015	160 A	168	85	70	10-50	10-50	3x8.5 & 8x7

### ORDERING INFORMATION (TWO POLE)

P/No	Rating Amps	Dimensions mm			Input terminal size mm <sup>2</sup>		Output terminals No. of & Dia. mm
		L	H	P	Bare wire	Ferruled	
RPB0990	40 A	66	46	51	2.5-6	1.5-6	1x5.5 & 4x4 & 3x3
RPB0995	80 A	66	46	51	10-25	6-16	5x4.5 & 2x5
RPB1000	125 A	66	46	51	10-35	10-25	5x5.5 & 1x7.5
RPB1005	125 A	132	46	51	10-35	10-25	1x9 & 11x5.5 & 2x7.5

### SPECIFICATIONS

#### Materials

Insulating body: PA66 UL94-V0, grey RAL7035  
 Cover: PC UL94-V0, transparent yellow  
 Conductors: Brass  
 Screws: Galvanised steel

#### Ratings

Two pole: 40, 80, 125 Amps  
 Four pole: 40, 80, 125, 160 Amps  
 Max voltage: 500V (160 Amp unit 600V)

#### Safety & Standards

Index protection: IP20  
 Standard: IEC947-7-1  
 Short circuit: Figures to standard IEC947-7-1

#### Short Circuit Current Duration 1 Sec

RPQ0980: 4.2 KA  
 RPQ0985: 4.2 KA  
 RPQ0990: 4.5 KA  
 RPQ0995: 4.5 KA  
 RPQ1000: 4.2 KA  
 RPQ1005: 4.2 KA  
 RPQ1010: 4.2 KA  
 RPQ1015: 6.0 KA  
 RPB0990: 4.2 KA  
 RPB0995: 4.5 KA  
 RPB1000: 4.2 KA  
 RPB1005: 4.2 KA



# UNIPOLAR DISTRIBUTION BLOCKS

## TYPE: ITB

### FEATURES

- Din rail mounting
- Optional Din rail mounting support
- 80 Amps rated
- Available as individual colour coded bars
- Green, blue or grey
- Nominal insulation voltage 500V

### DESCRIPTION

Teknomega unipolar terminal blocks are designed for light control panel distribution systems and are available singularly in three lengths 63mm, 95mm & 125mm all rated at 80 Amps and available colour coded green, blue, grey all incorporating a transparent yellow cover. All versions are Din rail mounted in the vertical orientation. Alternatively a Din rail mounting support is available that will hold up to 4 of the bars listed below, thus it is possible to custom create individually 2 pole, 3 pole or 4 pole distribution blocks.

### ORDERING INFORMATION

P/No	Rating Amps	Length mm	Colour	Terminals No. of & Dia. mm
ITB1000	80 A	63	Grey	2x7.5 & 5x5.5
ITB1015	80 A	63	Blue	2x7.5 & 5x5.5
ITB1030	80 A	63	Green	2x7.5 & 5x5.5
ITB1005	80 A	95	Grey	2x7.5 & 9x5.5
ITB1020	80 A	95	Blue	2x7.5 & 9x5.5
ITB1035	80 A	95	Green	2x7.5 & 9x5.5
ITB1010	80 A	125	Grey	2x7.5 & 13x5.5
ITB1025	80 A	125	Blue	2x7.5 & 13x5.5
ITB1040	80 A	125	Green	2x7.5 & 13x5.5
ITB2000	Optional Din rail mounting support 35W x 31H x 90mmD			

### SPECIFICATIONS

#### Materials

Insulating body:	PA66 UL94-V0 Grey RAL7035 Blue RAL5012 Green RAL6024
Cover:	PC UL94-V0, transparent yellow
Metal conductor:	Brass
Screws:	Galvanised steel

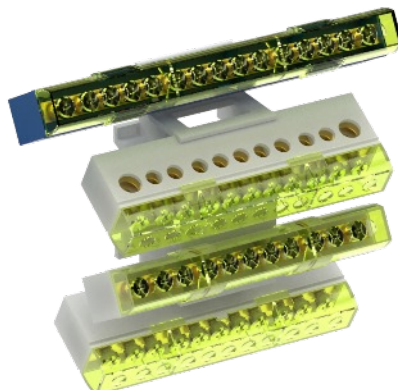
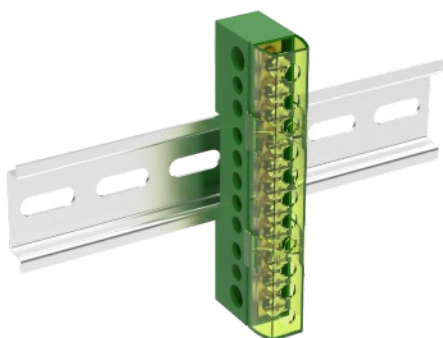
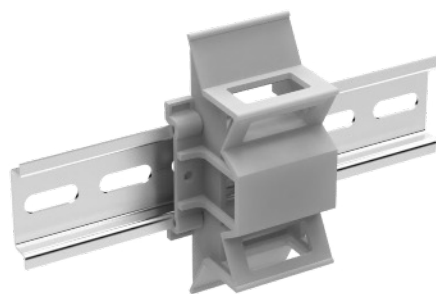
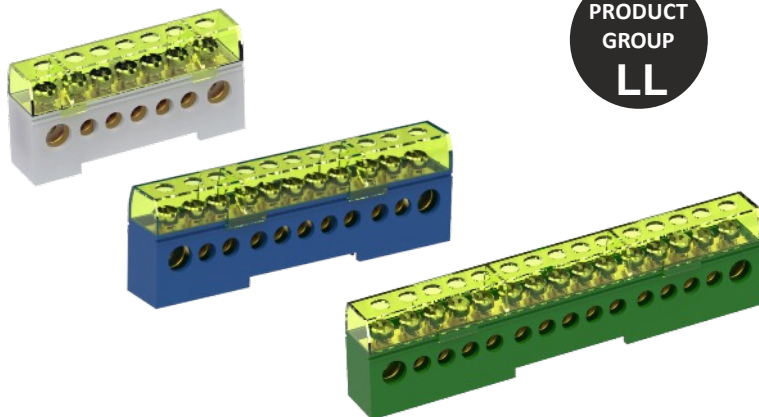
#### Ratings

Current:	80 Amps
Max voltage:	500V

#### Standards

Standard:	EN60947-7-1
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PRODUCT  
GROUP  
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Serving:-



Water Industry



Process Control



BMS



Transportation



HVAC



Energy

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