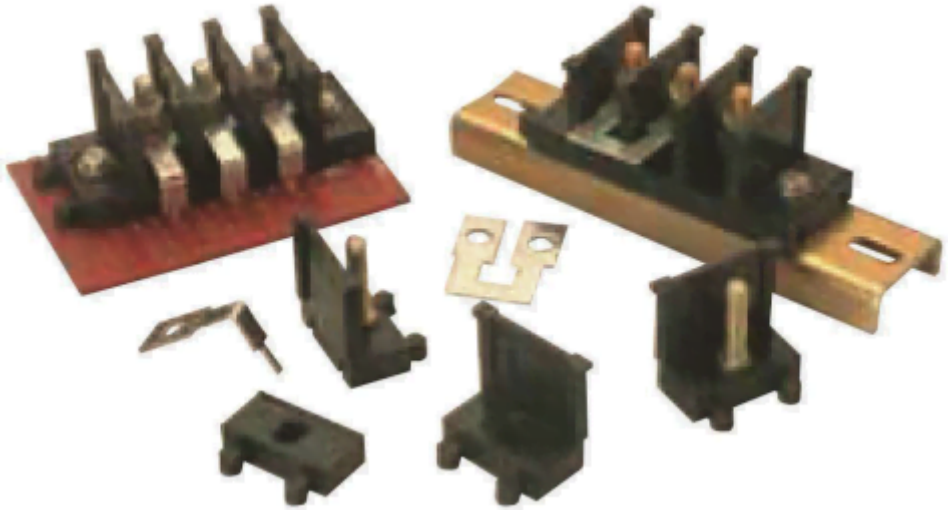
TECHNICAL INFORMATION FOR TERMINALS

You will find useful technical information below but, if you have any questions, please **contact our technical team** for support.

M4A INTERLOCKING TERMINALS – M4 STEEL THREAD – STUD TYPE

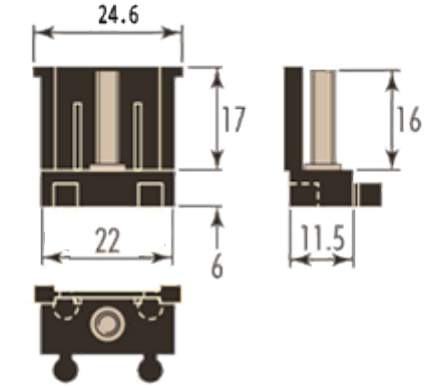


- Base Material: Polyamide 6 with Low Smoke Emissions & Flame Retardant
- Flammability Classification: Low Smoke IEC 60695-11-10

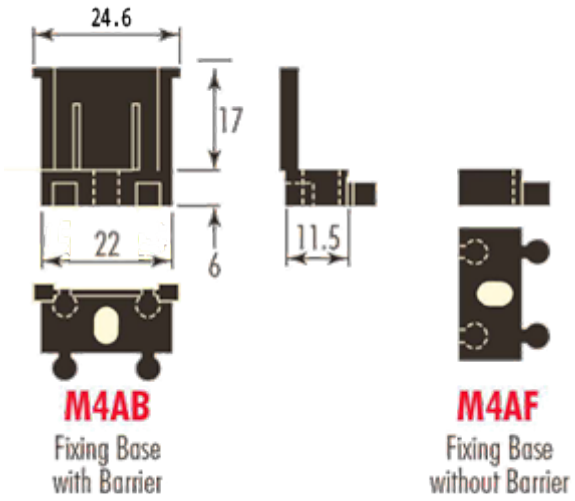
- Colour: Black
- Working Temperature: 80–110 °C (long term)
- UL Approval: UL 94 V-0 (0.8 mm)

- Stud Material: Male—Mild Steel Zinc and Passivate

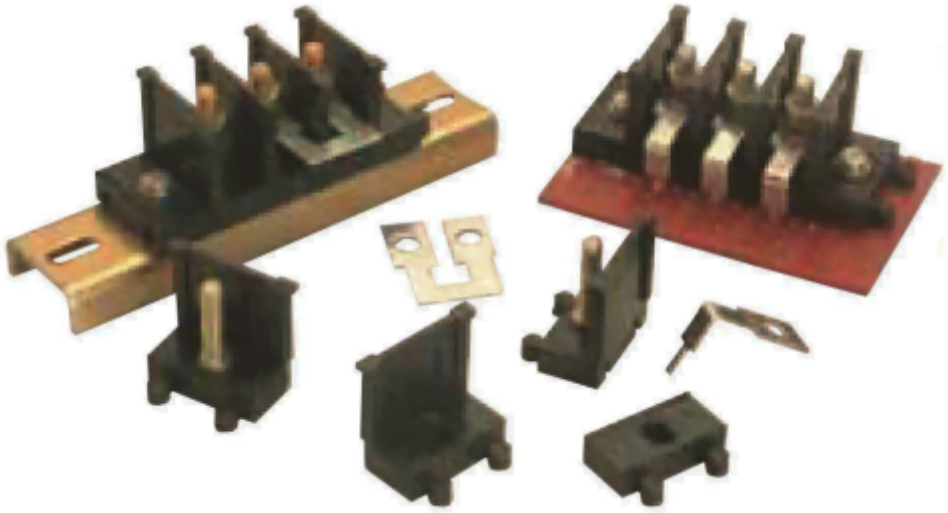
- Tread: Isometric Medium Fit Coarse Thread Class 6H/6g
- CTI: 575V IEC 60112
- Working Voltage (Ue): 250 V (BS 2618)
- Maximum Tightening Torque (stud): 2.0 N·m
- Maximum Recommended Cable Shoe Size: 6 mm²



M4A
Terminal with Barrier and Steel Stud

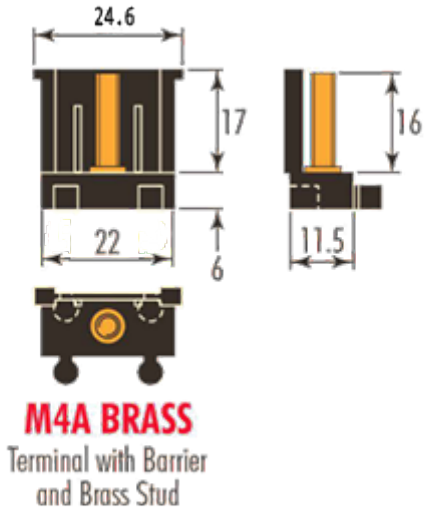


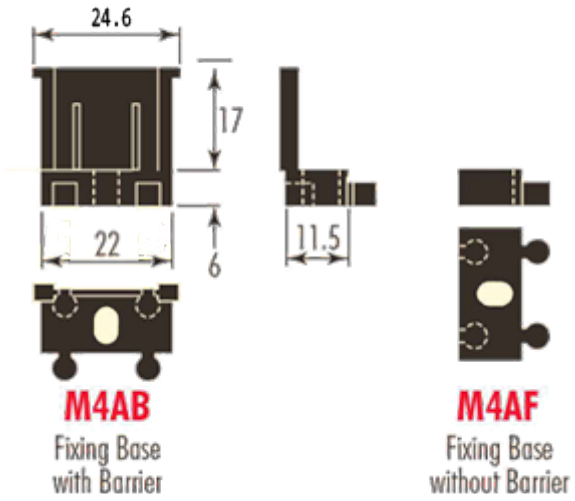
M4A INTERLOCKING TERMINALS - M4 BRASS THREAD - STUD TYPE



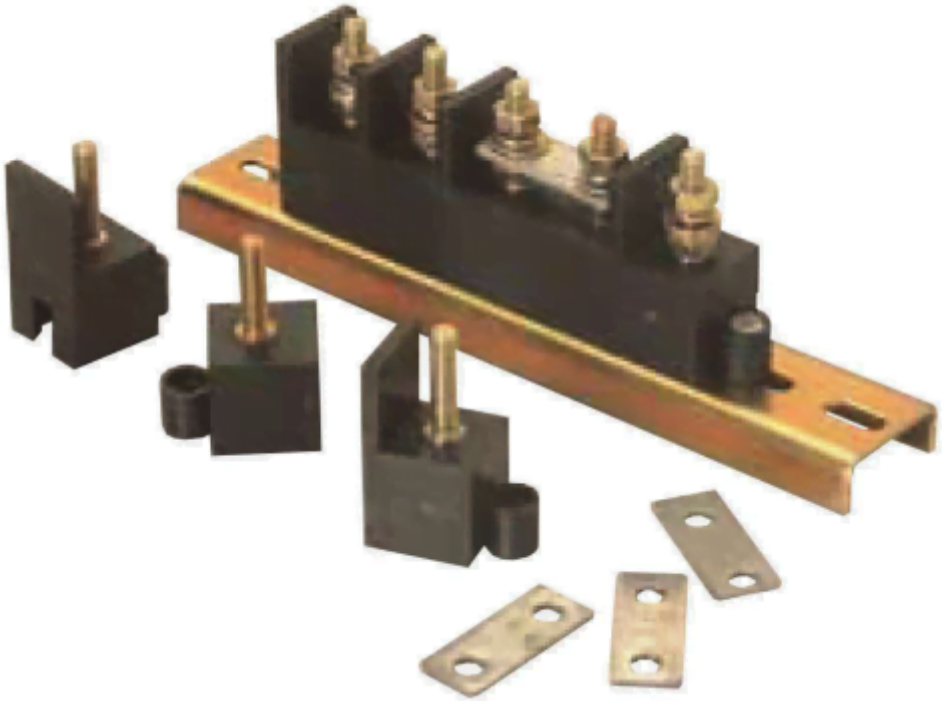
- Base Material: Polyamide 6 with Low Smoke Emissions & Flame Retardant
- Flammability Classification: Low Smoke IEC 60695-11-10
- Colour: Black
- Working Temperature: 80–110 °C (long term)
- UL Approval: UL 94 V-0 (0.8 mm)
- Stud Material: Brass—Bright Dipped
- Tread: Isometric Medium Fit Coarse Thread Class 6H/6g

- CTI: 575V IEC 60112
- Working Voltage (Ue): 250 V (BS 2618)
- Maximum Tightening Torque (stud): 2.0 N·m
- Maximum Recommended Cable Shoe Size: 6 mm²



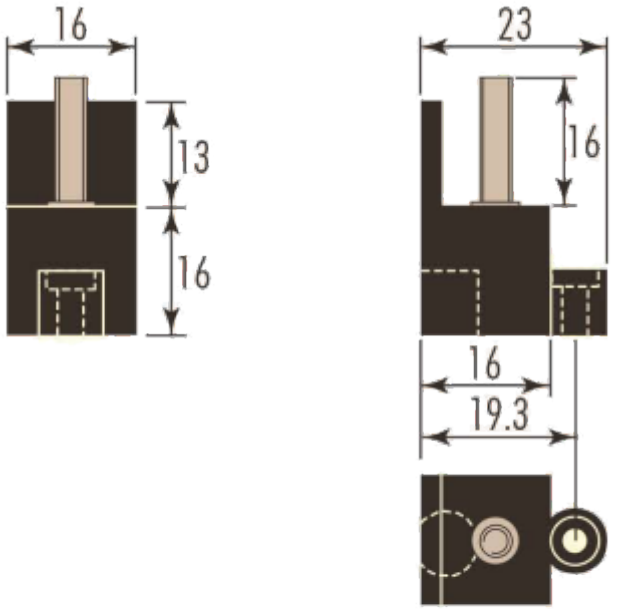


TBA INTERLOCKING TERMINALS - M4 STEEL THREAD - STUD TYPE

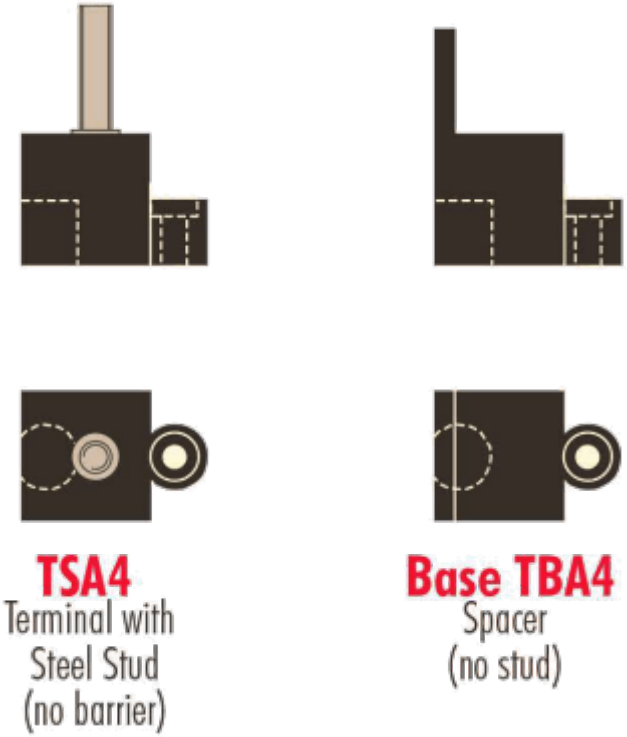


- Base Material: Polyamide 6 with Low Smoke Emissions & Flame Retardant
- Flammability Classification: Low Smoke IEC 60695-11-10
- Colour: Black
- Working Temperature: 80–110 °C (long term)
- UL Approval: UL 94 V-0 (0.8mm)

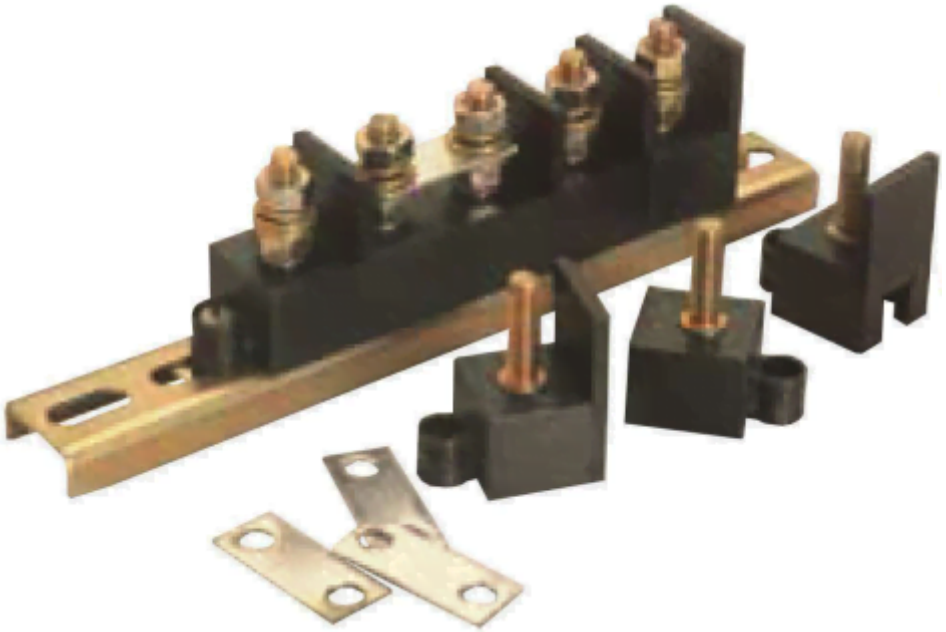
- Stud Material: Male—Mild Steel Zinc & Passivate
- Tread: Isometric Medium Fit Coarse Thread Class 6H/6g
- CTI: 575V IEC 60112
- Working Voltage (Ue): 250 V (BS 2618)
- Maximum Tightening Torque (stud): 2.0 N·m
- Maximum Recommended Cable Shoe Size: 6 mm^2



TBA4
Terminal with
Steel Stud and Barrier

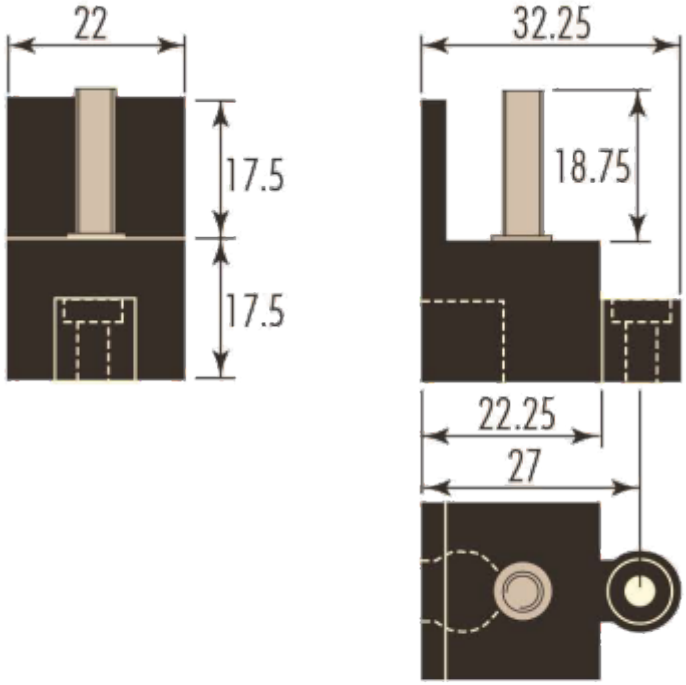


TBA INTERLOCKING TERMINALS - M5 STEEL THREAD - STUD TYPE



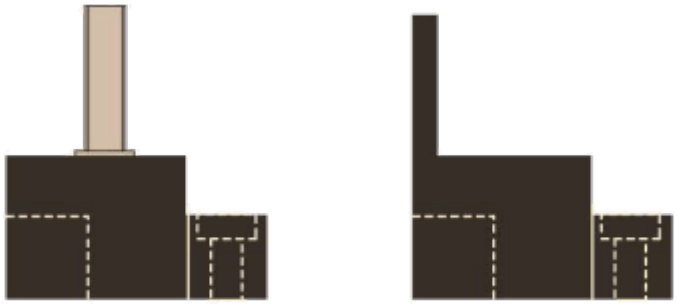
- Base Material: Polyamide 6 with Low Smoke Emissions & Flame Retardant
- Flammability Classification: Low Smoke IEC 60695-11-10
- Colour: Black
- Working Temperature: 80–110 °C (long term)
- UL Approval: UL 94 V-0 (0.8 mm)

- Stud Material: Male—Mild Steel Zinc & Passivate
- Tread: Isometric Medium Fit Coarse Thread Class 6H/6g
- CTI: 575V IEC 60112
- Working Voltage (Ue): 600 V (BS 2618)
- Maximum Tightening Torque (stud): 4.0 N·m
- Maximum Recommended Cable Shoe Size: 16 mm^2



TBA5

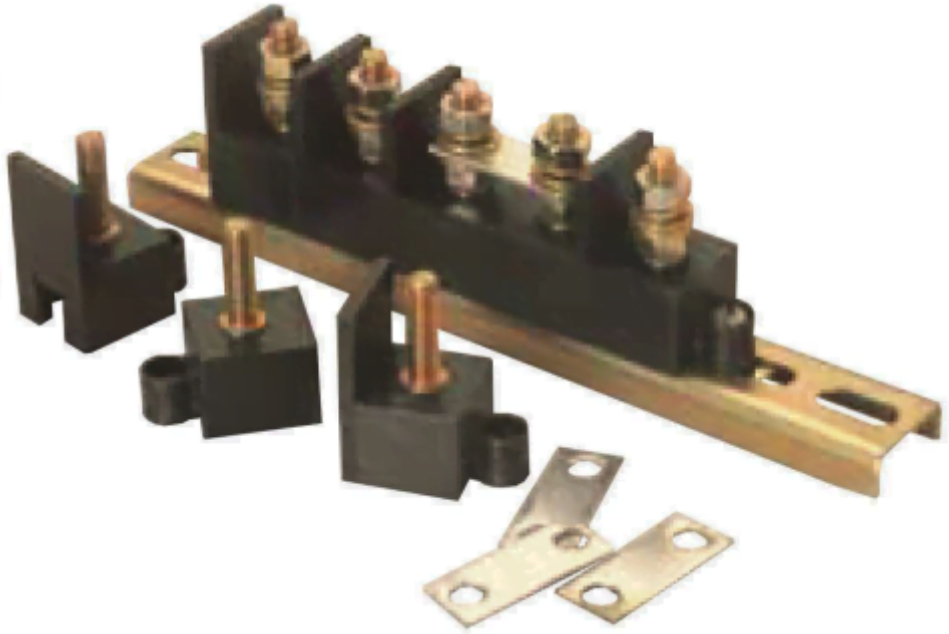
Terminal with
Steel Stud and Barrier



TSA5
Terminal with
Steel Stud
(no barrier)

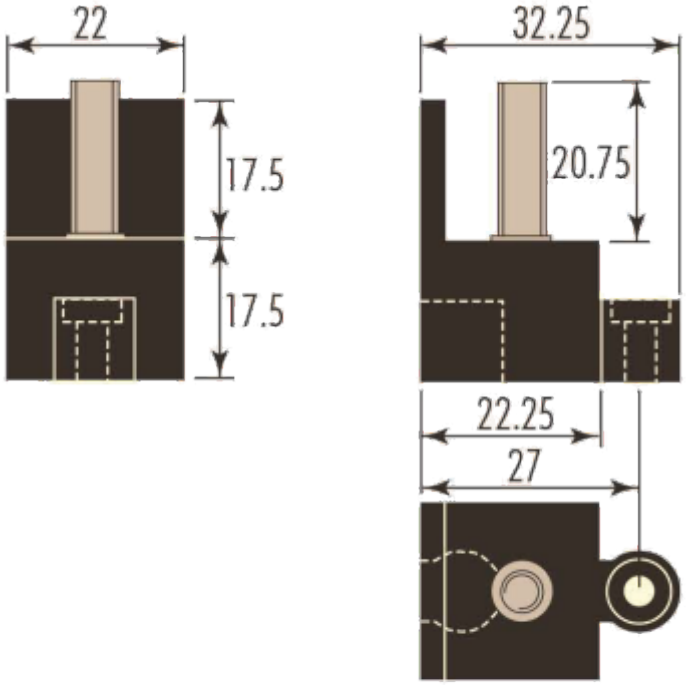
Base TBA5
Spacer
(no stud)

TBA INTERLOCKING TERMINALS - M6 STEEL THREAD - STUD TYPE



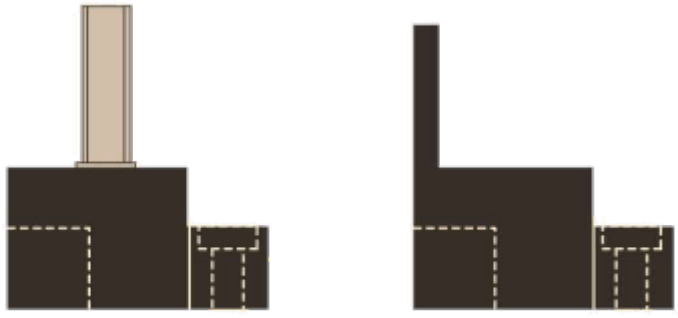
- Base Material: Polyamide 6 with Low Smoke Emissions & Flame Retardant
- Flammability Classification: Low Smoke IEC 60695-11-10
- Colour: Black
- Working Temperature: 80–110 °C (long term)
- UL Approval: UL 94 V-0 (0.8 mm)

- Stud Material: Male—Mild Steel Zinc & Passivate
- Tread: Isometric Medium Fit Coarse Thread Class 6H/6g
- CTI: 575V IEC 60112
- Working Voltage (Ue): 600 V (BS 2618)
- Maximum Tightening Torque (stud): 6.8 N·m
- Maximum Recommended Cable Shoe Size: 35 mm^2

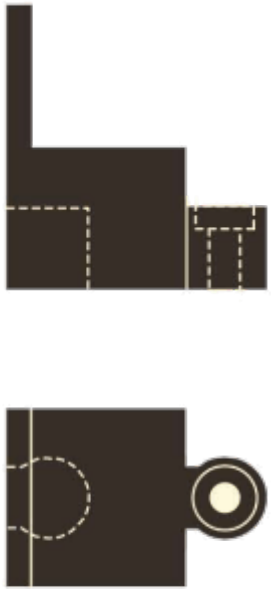


TBA6

Terminal with
Steel Stud and Barrier

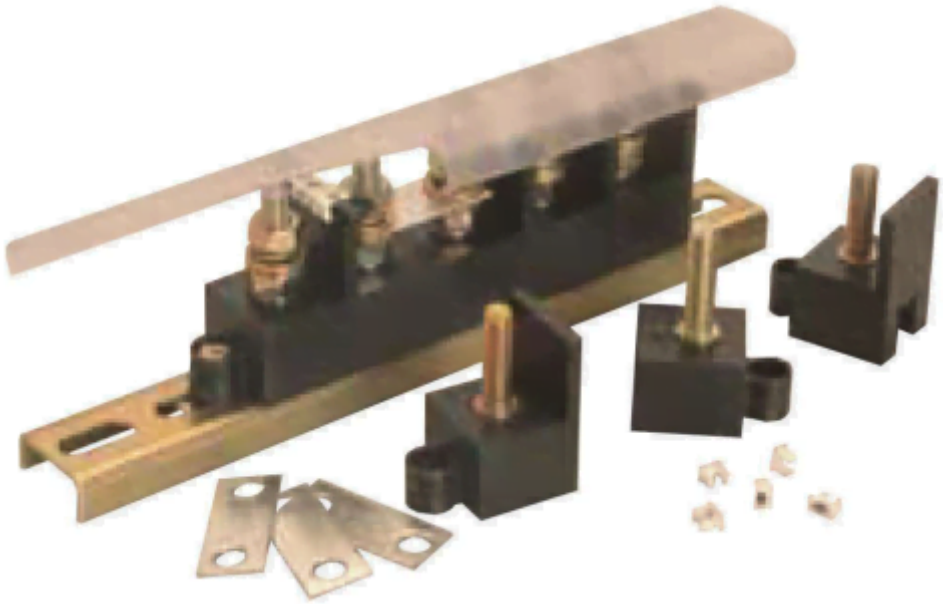


TSA6
Terminal with
Steel Stud
(no barrier)



Base TBA6
Spacer
(no stud)

MBA INTERLOCKING TERMINALS - M5 STEEL THREAD - STUD TYPE



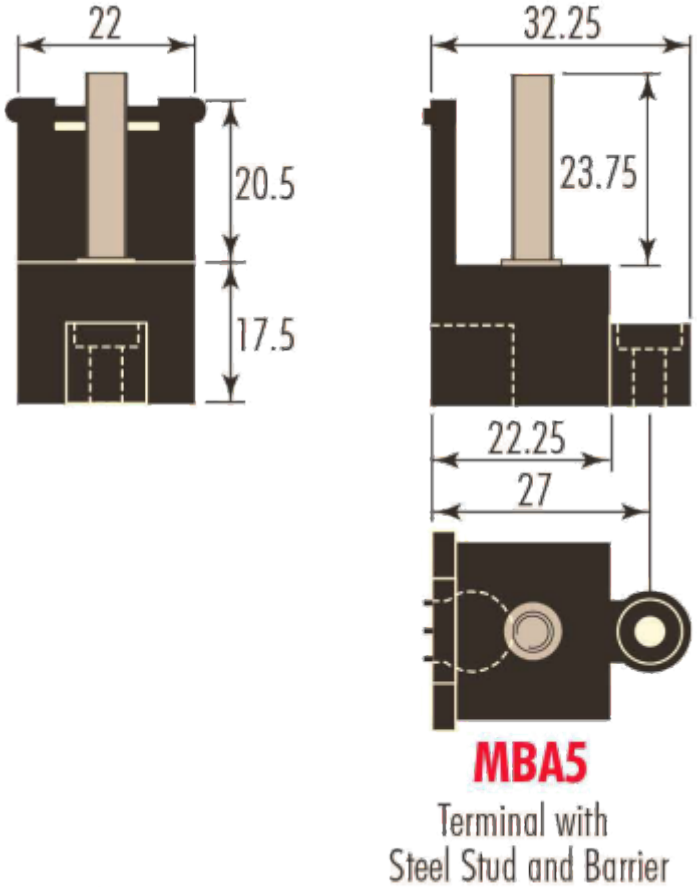
- Base Material: Polyamide 6 with Low Smoke Emissions & Flame Retardant

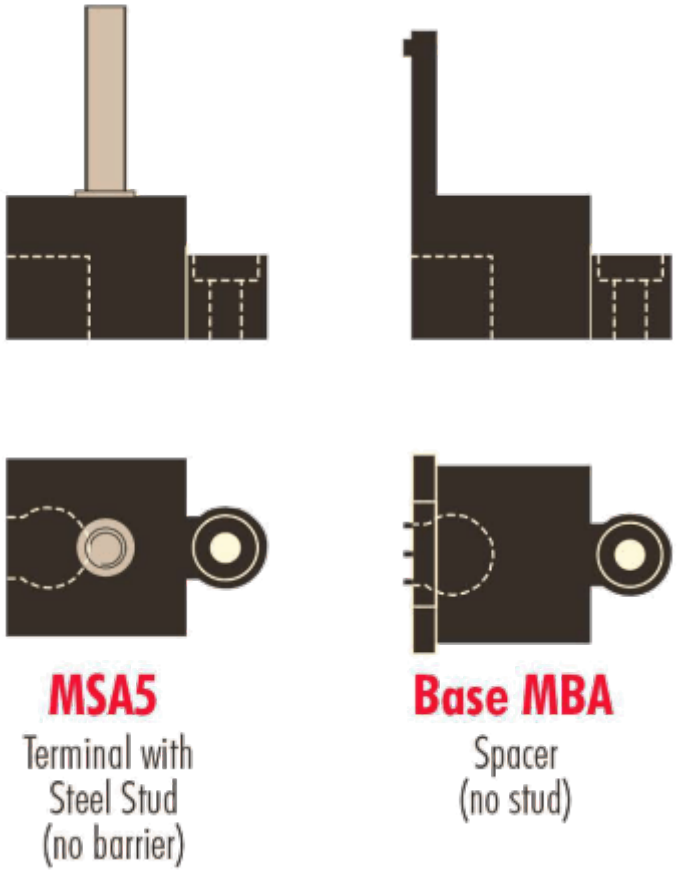
- Flammability Classification: Low Smoke IEC 60695-11-10

- Colour: Black
- Working Temperature: 80–110 °C (long term)
- UL Approval: UL 94 V-0 (0.8 mm)

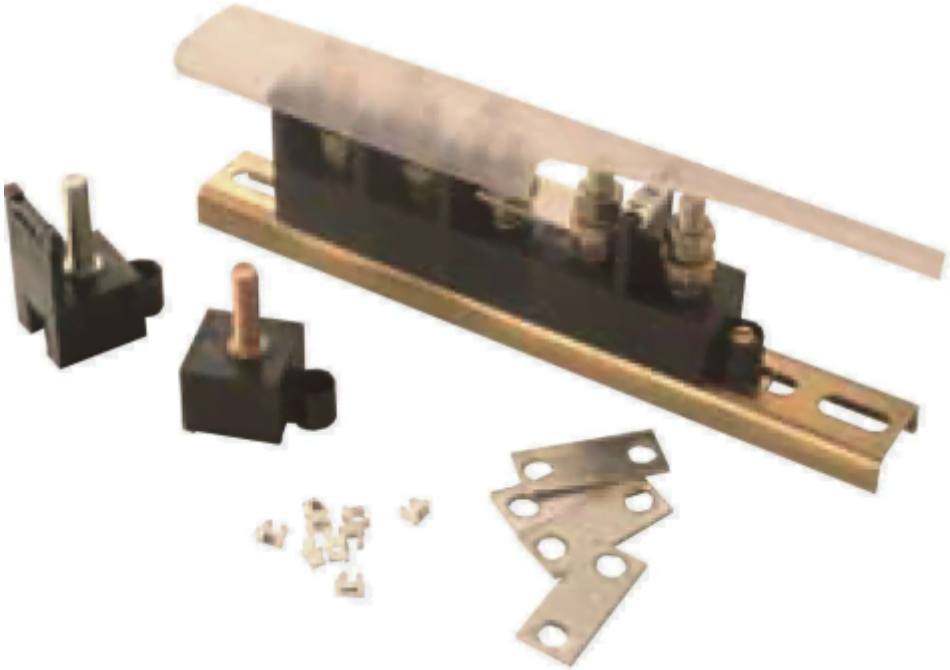
- Stud Material: Male—Mild Steel Zinc & Passivate

- Tread: Isometric Medium Fit Coarse Thread Class 6H/6g
- CTI: 575V IEC 60112
- Working Voltage (Ue): 600 V (BS 2618)
- Maximum Tightening Torque (stud): 4.0 N·m
- Maximum Recommended Cable Shoe Size: 16 mm²


22
20.5
17.5
32.25
23.75
22.25
27
MBA5
Terminal with
Steel Stud and Barrier

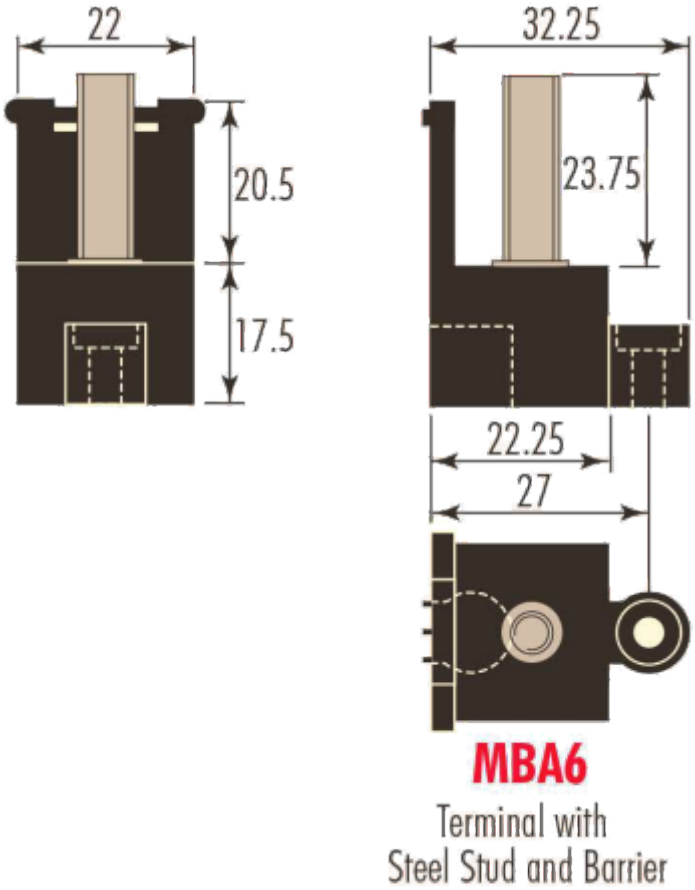


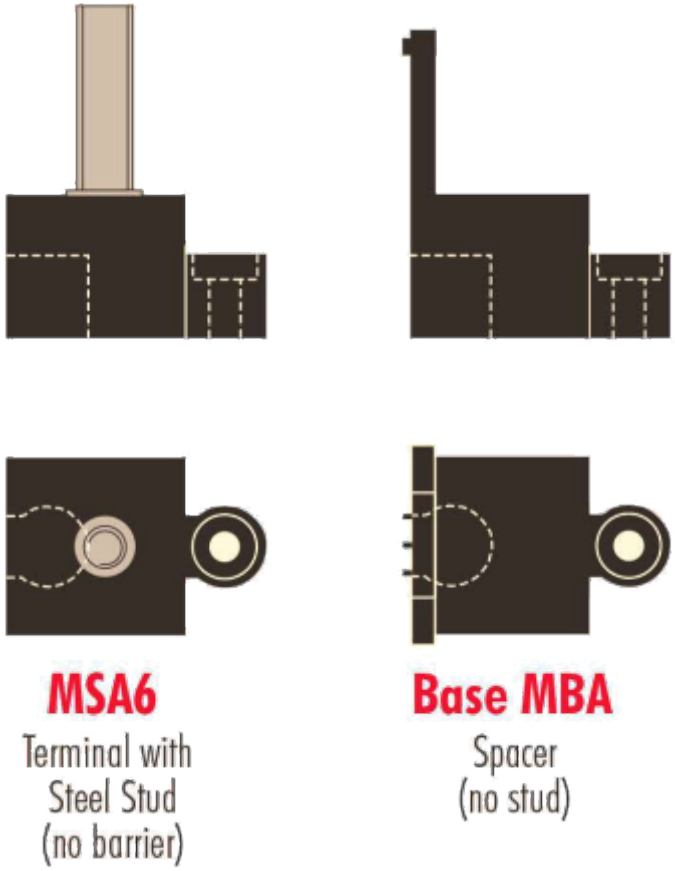
MBA INTERLOCKING TERMINALS - M6 STEEL THREAD - STUD TYPE



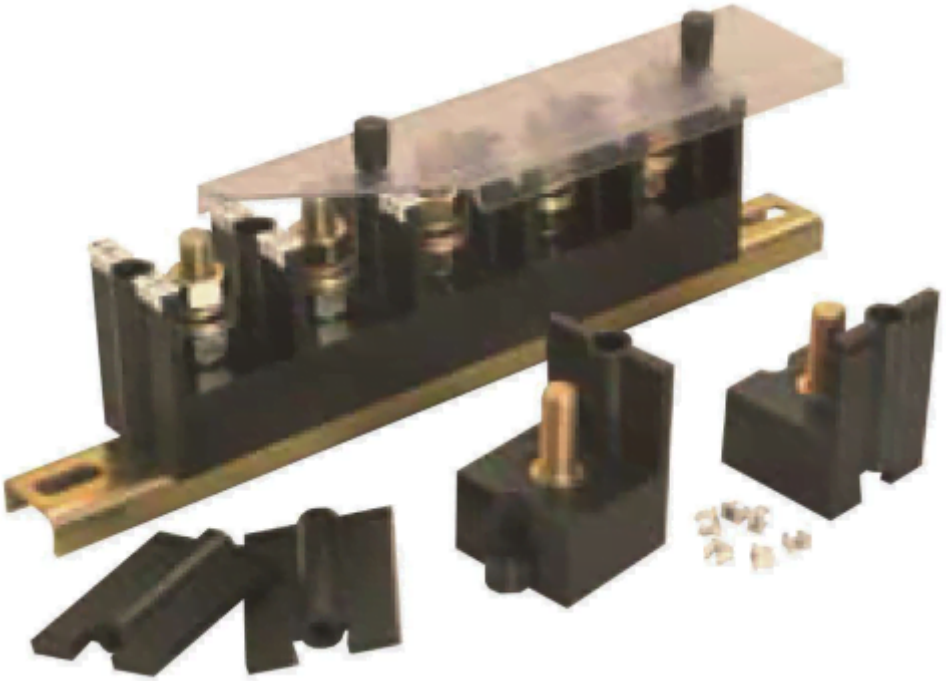
- Base Material: Polyamide 6 with Low Smoke Emissions & Flame Retardant
- Flammability Classification: Low Smoke IEC 60695-11-10
- Colour: Black
- Working Temperature: 80–110 °C (long term)
- UL Approval: UL 94 V-0 (0.8 mm)

- Stud Material: Male—Mild Steel Zinc & Passivate
- Tread: Isometric Medium Fit Coarse Thread Class 6H/6g
- CTI: 575V IEC 60112
- Working Voltage (Ue): 600 V (BS 2618)
- Maximum Tightening Torque (stud): 6.8 N·m
- Maximum Recommended Cable Shoe Size: 35 mm^2


22
20.5
17.5
32.25
23.75
22.25
27
MBA6
Terminal with
Steel Stud and Barrier

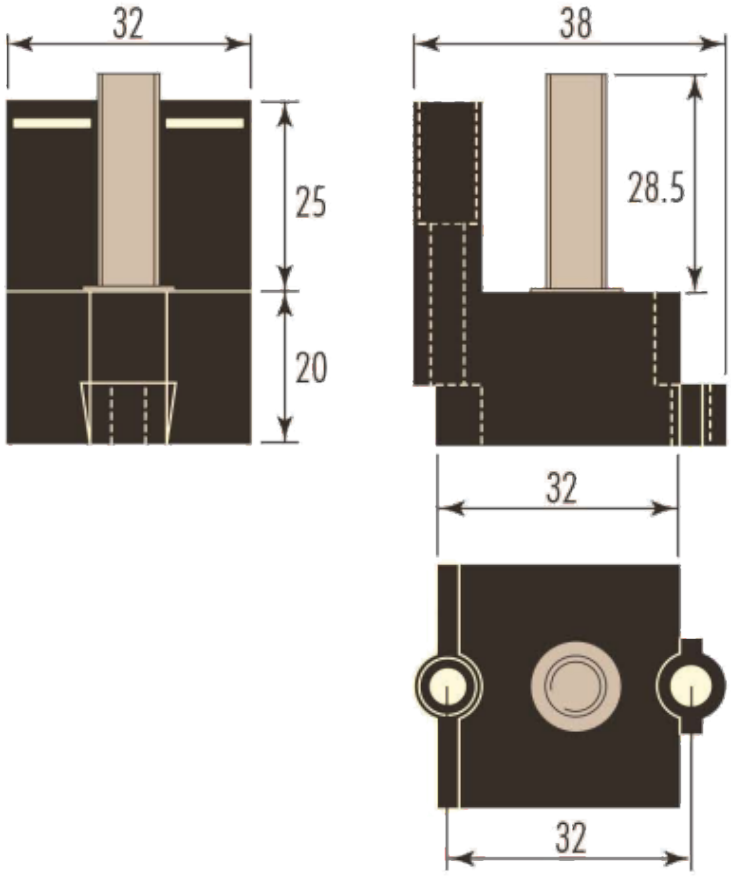


MBA INTERLOCKING TERMINALS - M8 STEEL THREAD - STUD TYPE



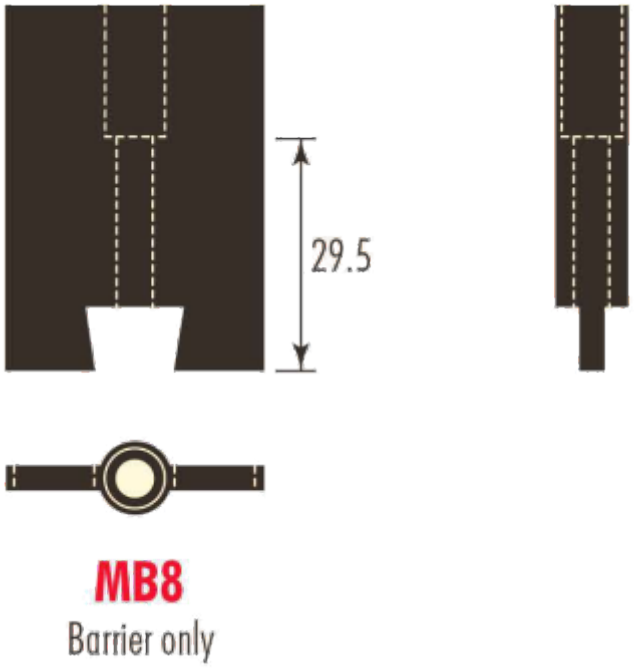
- Base Material: Polyamide 6 with Low Smoke Emissions & Flame Retardant
- Flammability Classification: Low Smoke IEC 60695-11-10
- Colour: Black
- Working Temperature: 80–110 °C (long term)
- UL Approval: UL 94 V-0 (0.8 mm)

- Stud Material: Male—Mild Steel Zinc & Passivate
- Tread: Isometric Medium Fit Coarse Thread Class 6H/6g
- CTI: 575V IEC 60112
- Working Voltage (Ue): 750 V (BS 2618)
- Maximum Tightening Torque (stud): 16.5 N·m
- Maximum Recommended Cable Shoe Size: 50 mm^2

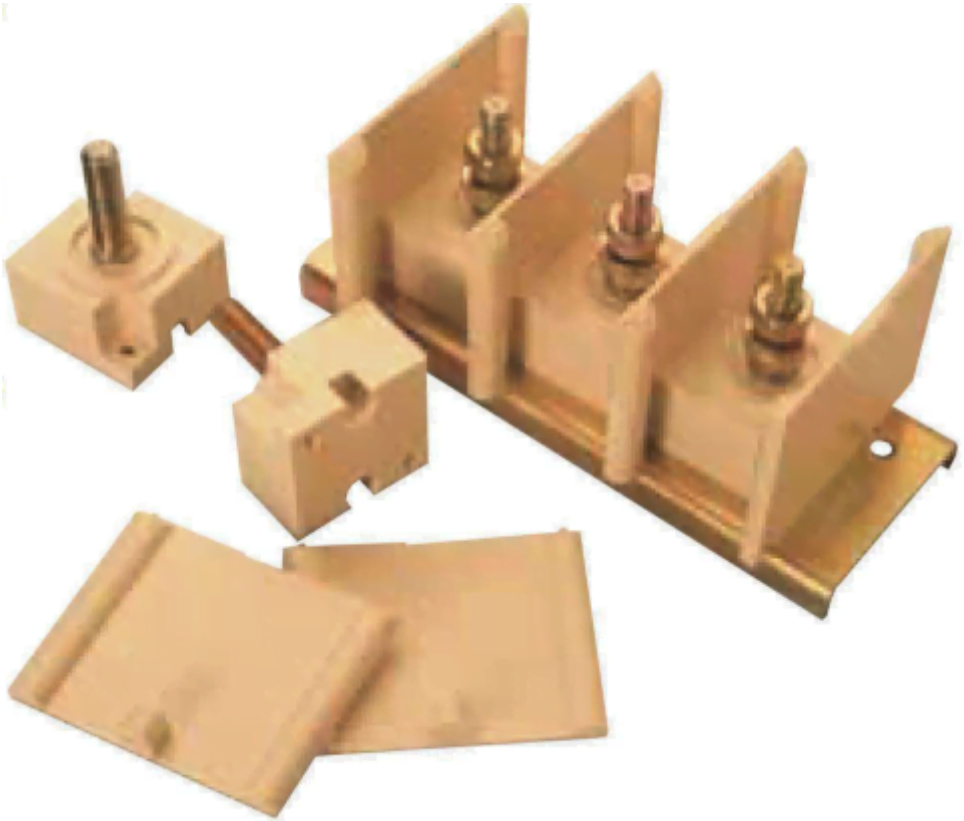


MBA8

Terminal with
Steel Stud and Barrier

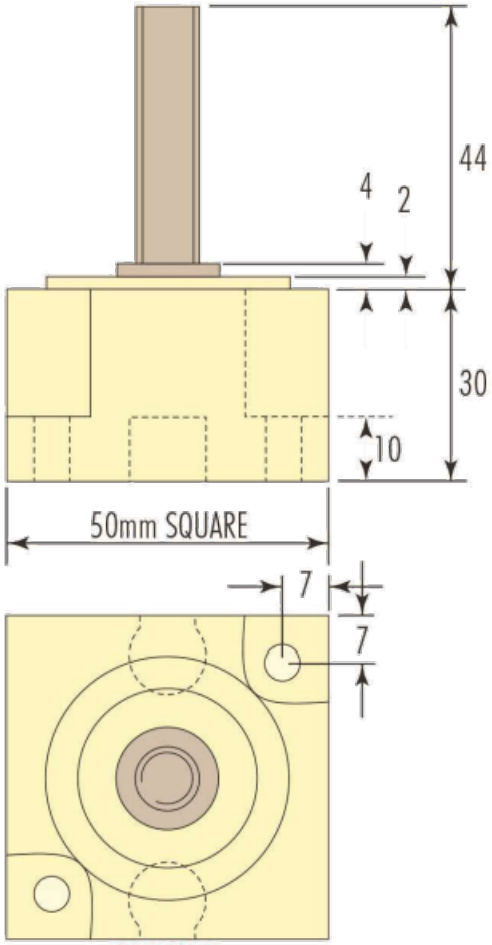


HEAVY DUTY TERMINALS - M10 STEEL THREAD - STUD TYPE

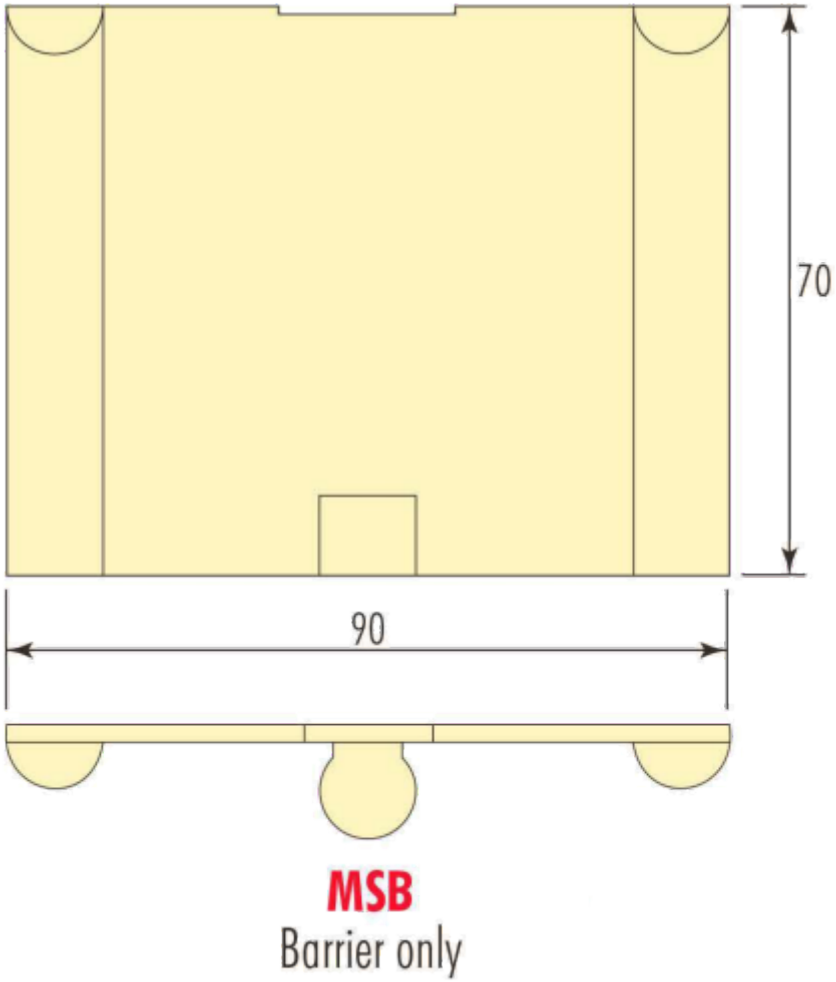


- Base Material: Glass Fibre Reinforced Polyester DMC with High Arc Resistance and Reduced Flammability
- Colour: Beige
- Working Temperature: 160 °C
- Oxygen Index: 30% BS2782 method 141 ISO 4589
- UL Approval: UL 94 V-0

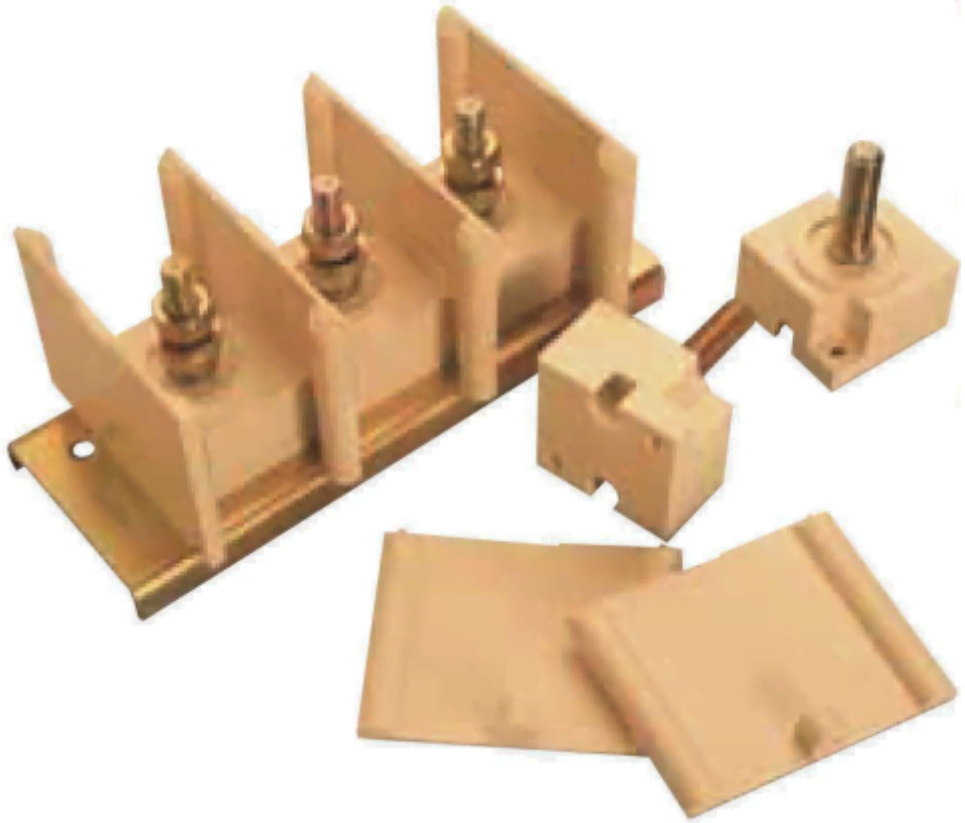
- Stud Material: Male—Mild Steel Zinc & Passivate
- Tread: Isometric Medium Fit Coarse Thread Class 6H/6g
- CTI: > 600V BS 5901 IEC 112
- Working Voltage (Ue): 1200 V (BS 2618)
- Maximum Tightening Torque (stud): 32.8 N·m
- Maximum Recommended Cable Shoe Size: 185 mm²



MSA10
Terminal without Barrier


70
90
MSB
Barrier only

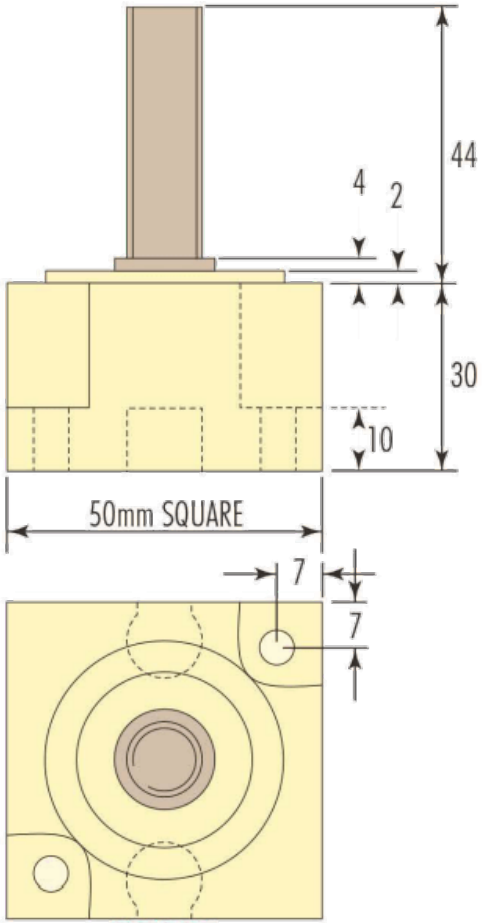
HEAVY DUTY TERMINALS - M12 STEEL THREAD - STUD TYPE



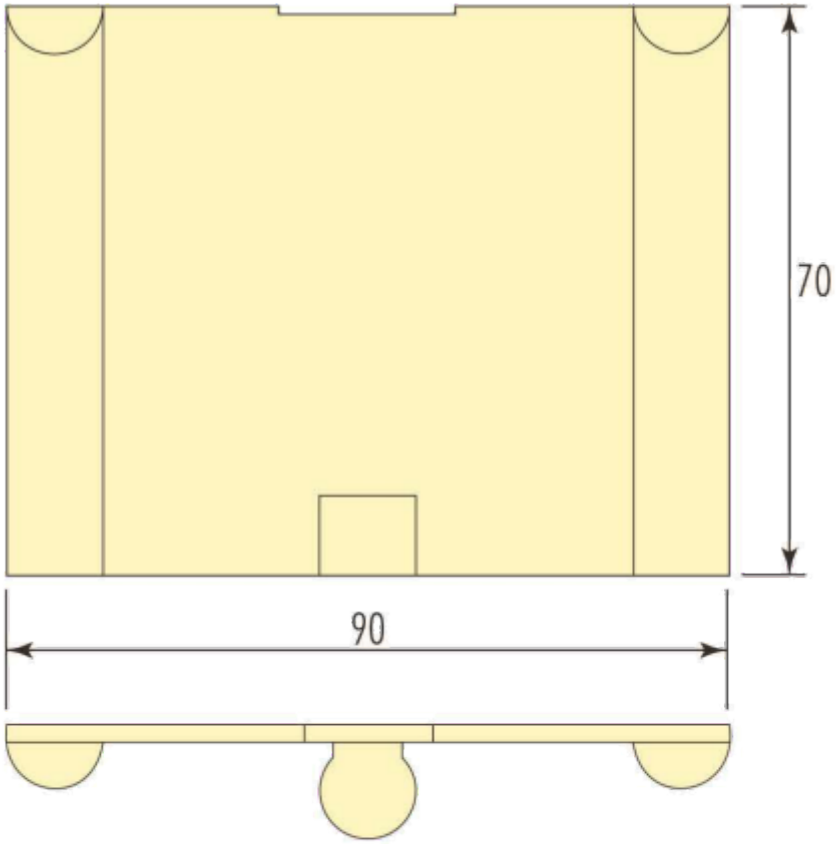
- Base Material: Glass Fibre Reinforced Polyester DMC with High Arc Resistance and Reduced Flammability
- Colour: Beige
- Working Temperature: 160 °C

- Oxygen Index: 30% BS 2782 method 141 ISO 4589
- UL Approval: UL 94 V-0

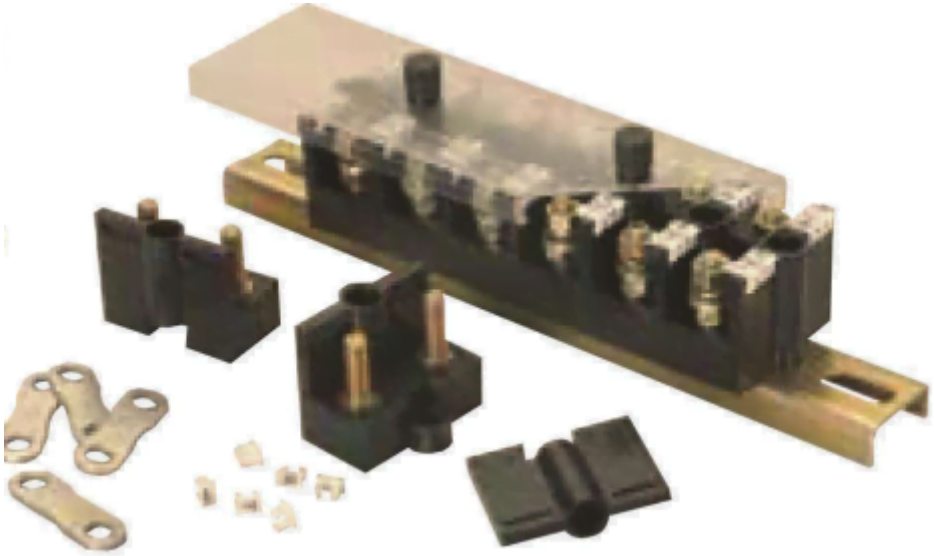
- Stud Material: Male—Mild Steel Zinc & Passivate
- Tread: Isometric Medium Fit Coarse Thread Class 6H/6g
- CTI: > 600V BS 5901 IEC 112
- Working Voltage (Ue): 1200 V (BS 2618)
- Maximum Tightening Torque (stud): 57.0 N·m
- Maximum Recommended Cable Shoe Size: 240 mm^2



MSA12
Terminal without Barrier

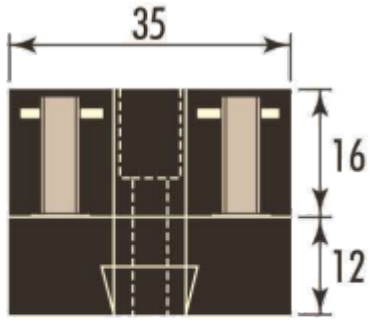

70
90
MSB
Barrier only

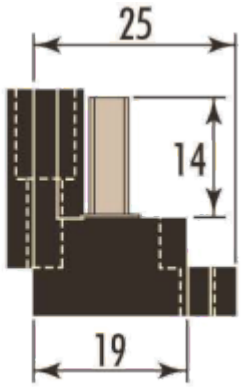
TM5 INTERLOCKING TERMINALS - M5 STEEL THREAD - TWIN STUD TYPE

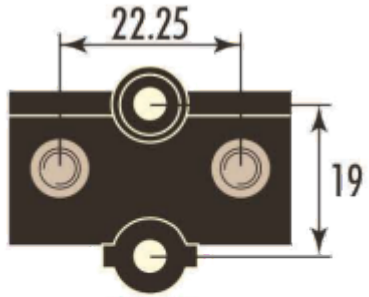


- Base Material: Polyamide 6 with Low Smoke Emissions & Flame Retardant
- Flammability Classification: Low Smoke IEC 60695-11-10
- Colour: Black
- Working Temperature: 80–110 °C (long term)
- UL Approval: UL 94 V-0 (0.8 mm)
- Stud Material: Male—Mild Steel Zinc & Passivate

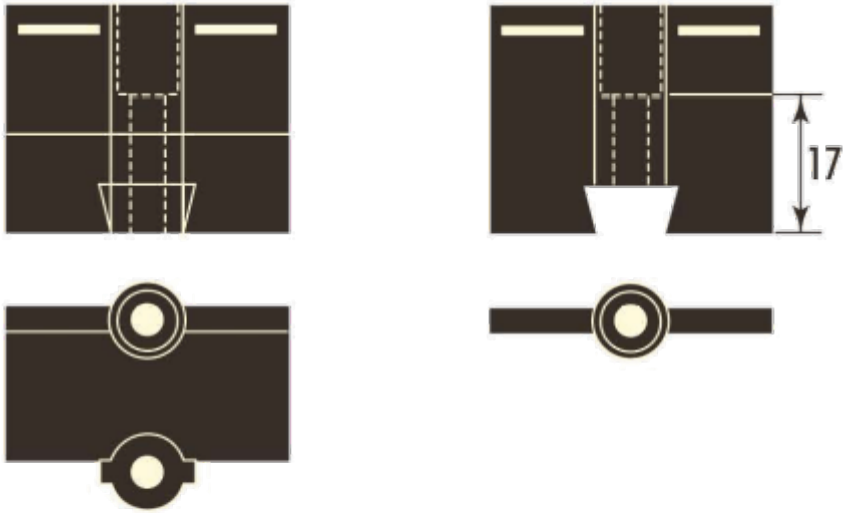
- Tread: Isometric Medium Fit Coarse Thread Class 6H/6g
- CTI: 575V IEC 60112
- Working Voltage (Ue): 600 V (BS 2618)
- Maximum Tightening Torque (stud): 4.0 N·m
- Maximum Recommended Cable Shoe Size: 16 mm²



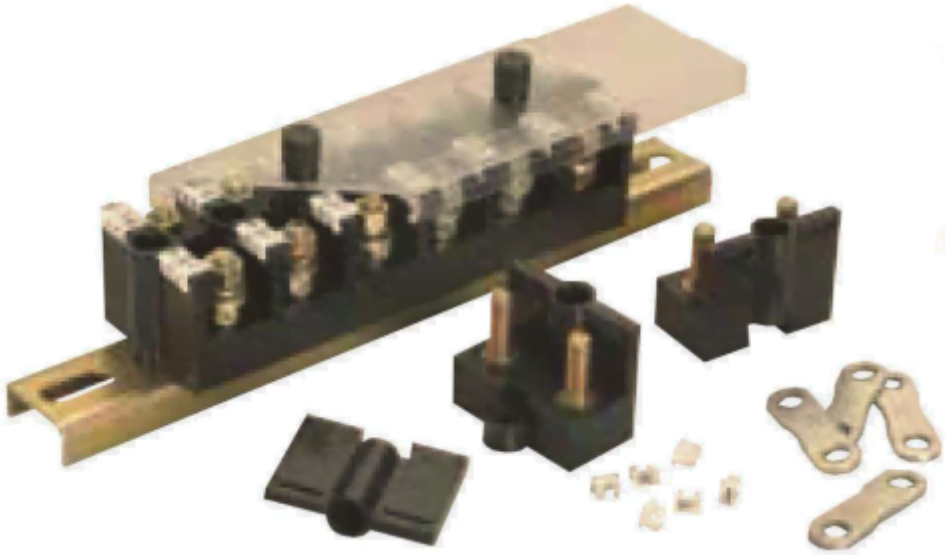




TM5
Terminal with
Steel Studs and Barrier



TM6 INTERLOCKING TERMINALS - M6 STEEL THREAD - TWIN STUD TYPE



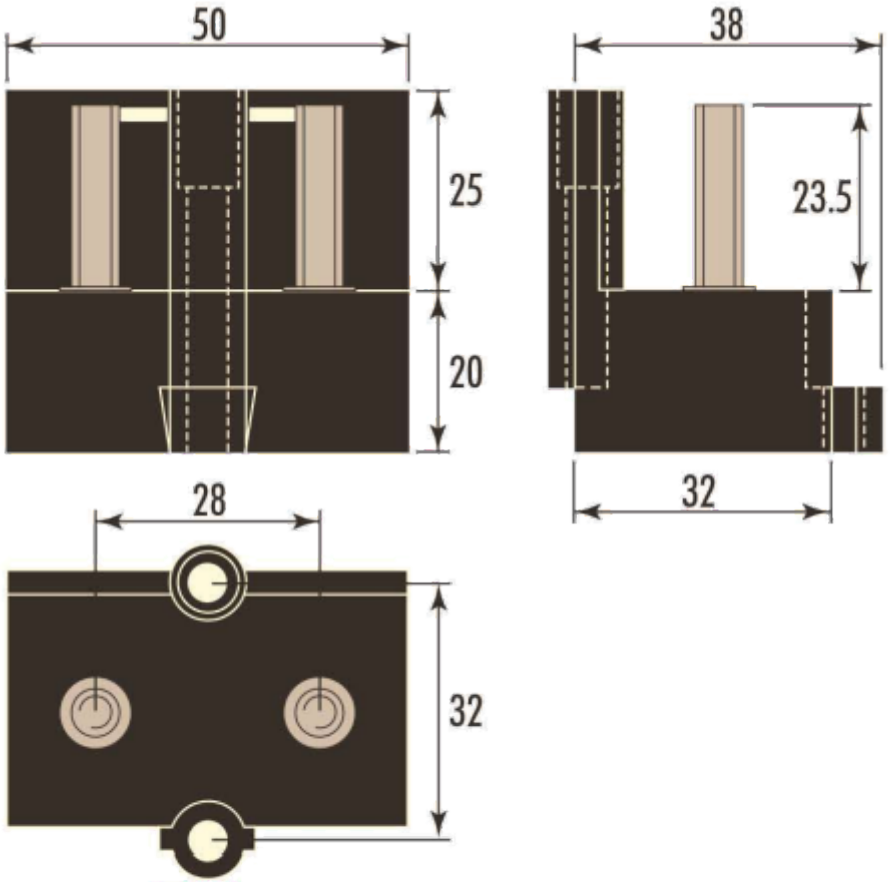
- Base Material: Polyamide 6 with Low Smoke Emissions & Flame Retardant

- Flammability Classification: Low Smoke IEC 60695-11-10

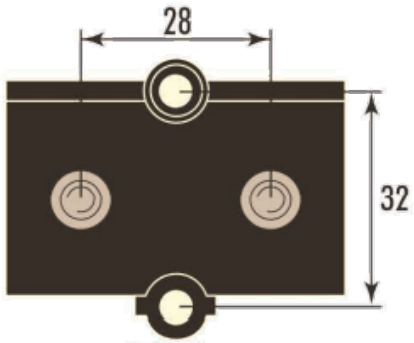
- Colour: Beige
- Working Temperature: 80–110 °C (long term)
- UL Approval: UL 94 V-0 (0.8 mm)

- Stud Material: Male—Mild Steel Zinc & Passivate
- Tread: Isometric Medium Fit Coarse Thread Class 6H/6g

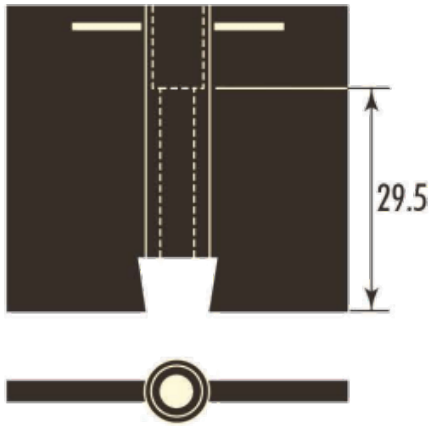
- CTI: 575V IEC 60112
- Working Voltage (Ue): 750 V (BS 2618)
- Maximum Tightening Torque (stud): 6.8 N·m
- Maximum Recommended Cable Shoe Size: 35 mm²



TM6
Terminal with
Steel Studs and Barrier

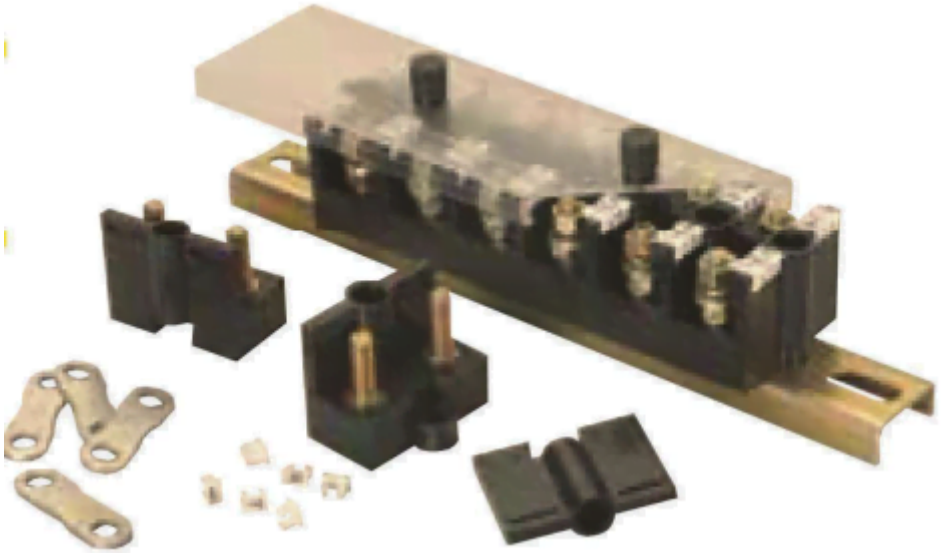


TM6
Terminal with
Steel Studs and Barrier



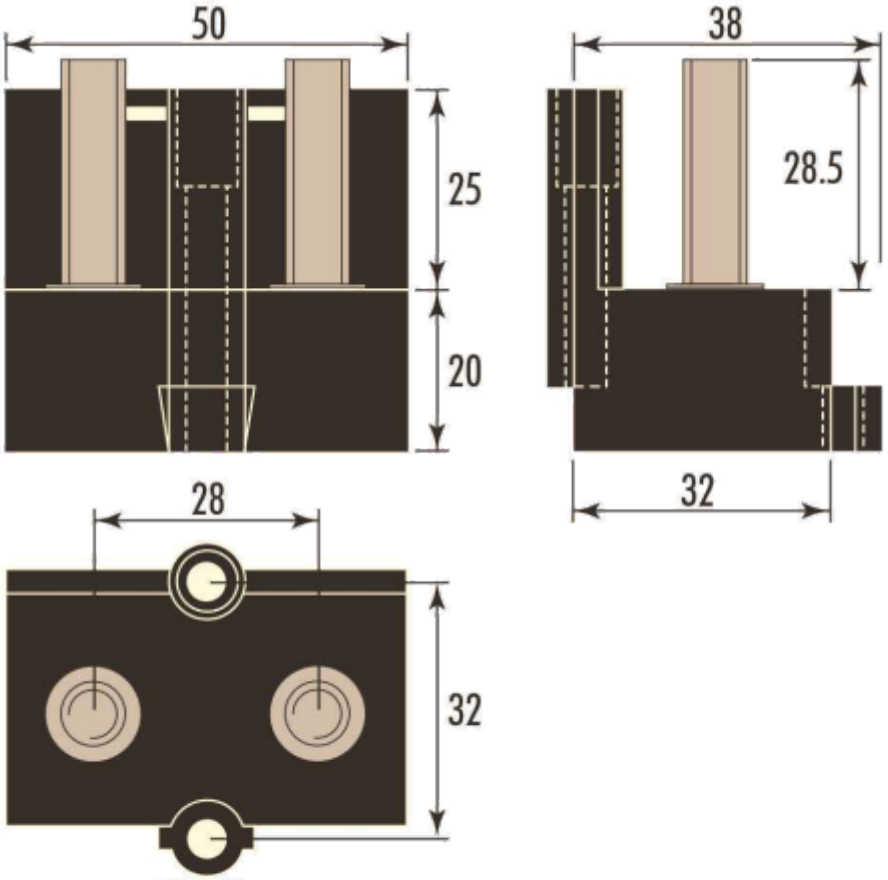
TMB8
Barrier only

TM8 INTERLOCKING TERMINALS - M8 STEEL THREAD - TWIN STUD TYPE

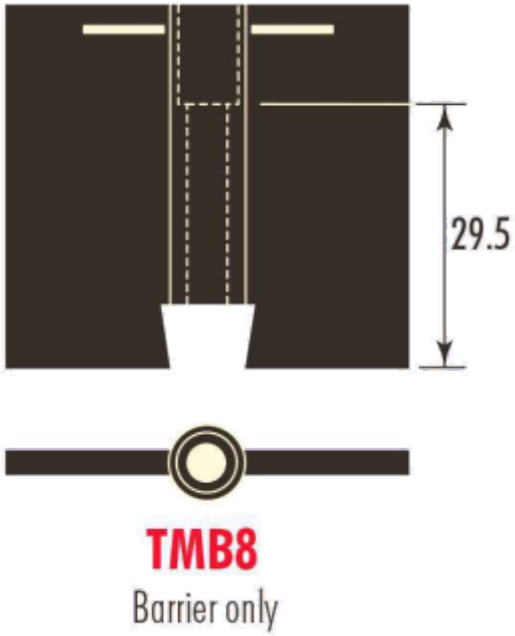


- Base Material: Polyamide 6 with Low Smoke Emissions & Flame Retardant
- Flammability Classification: Low Smoke IEC 60695-11-10
- Colour: Black
- Working Temperature: 80–110 °C (long term)
- UL Approval: UL 94 V-0 (0.8 mm)
- Stud Material: Male—Mild Steel Zinc & Passivate

- Tread: Isometric Medium Fit Coarse Thread Class 6H/6g
- CTI: 575V IEC 60112
- Working Voltage (Ue): 750 V (BS 2618)
- Maximum Tightening Torque (stud): 16.5 N·m
- Maximum Recommended Cable Shoe Size: 50 mm²



TM8
Terminal with
Steel Studs and Barrier



ACCESSORIES

Terminal Range	Part Number	Mounting Rail	Marker 0-9 A-Z	Cover	Link	Square Washer	Cover Fixing	Fixing Screw* Not of Termate supply.
TER-MINI	M4A/M4A BRASS	RA	91506	CBA	LKM4A LK4DSP†	SW4	–	M4x16

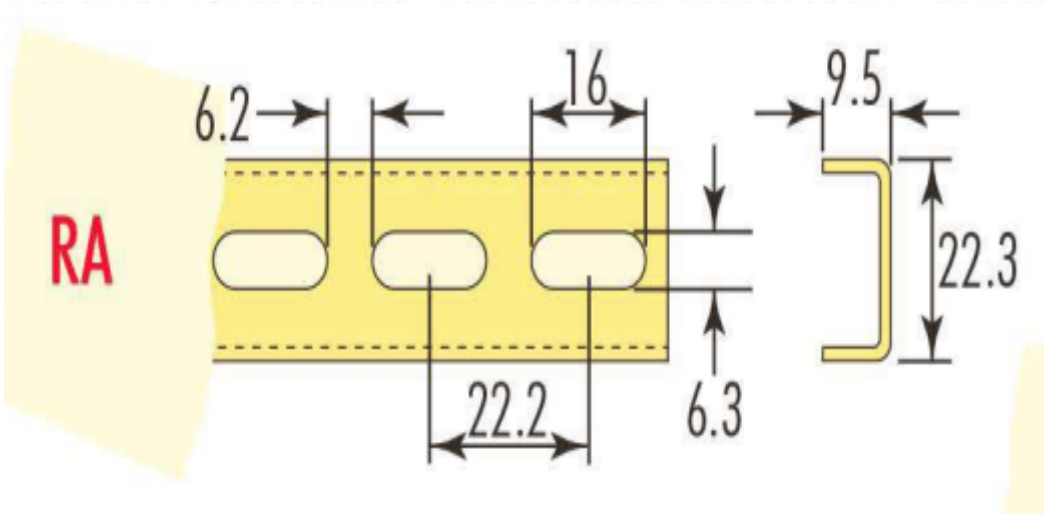
Terminal Range	Part Number	Mounting Rail	Marker 0-9 A-Z	Cover	Link	Square Washer	Cover Fixing	Fixing Screw* Not of Termate supply.
TER-MIDI	TBA4/TSA4	RA4	–	CBA4	LK4MS-A	–	–	M3x12
TER-MIDI	TBA5/TSA5	RA	–	–	LK5TM-A	SW4	–	M4x16
TER-MIDI	TBA6/TSA6	RA	–	–	LK6A	SW4	–	M4x16
TER-MIDI	MBA5/MSA5	RA	91506	CBA	LK5TM-A	SW4	–	M4x16
TER-MIDI	MBA6/MSA6	RA	91506	CBA	LK6A	SW4	–	M4x16
TER-MIDI	MBA8	RA8	91506	CTM5	–	–	2A4BAP/TMPL	M4x40
TER-MAXI	MSA10/MSA12	RA12	–	–	–	–	–	M5x20
TER-MAXI	(barrier) MSB	RA12	91506	–	–	–	–	–
TERMA-TWIN	TM5	RA	91506	CTM5	LK5TM-A	–	2A4BAP/TMPL	M4x25
TERMA-TWIN	TM6	RA8	91506	CTM6-8	LK6TM	–	2A4BAP/TMPL	M4x40
TERMA-TWIN	TM8	RA8	91506	CTM6-8	LK8TM	–	2A4BAP/TMPL	M4x40

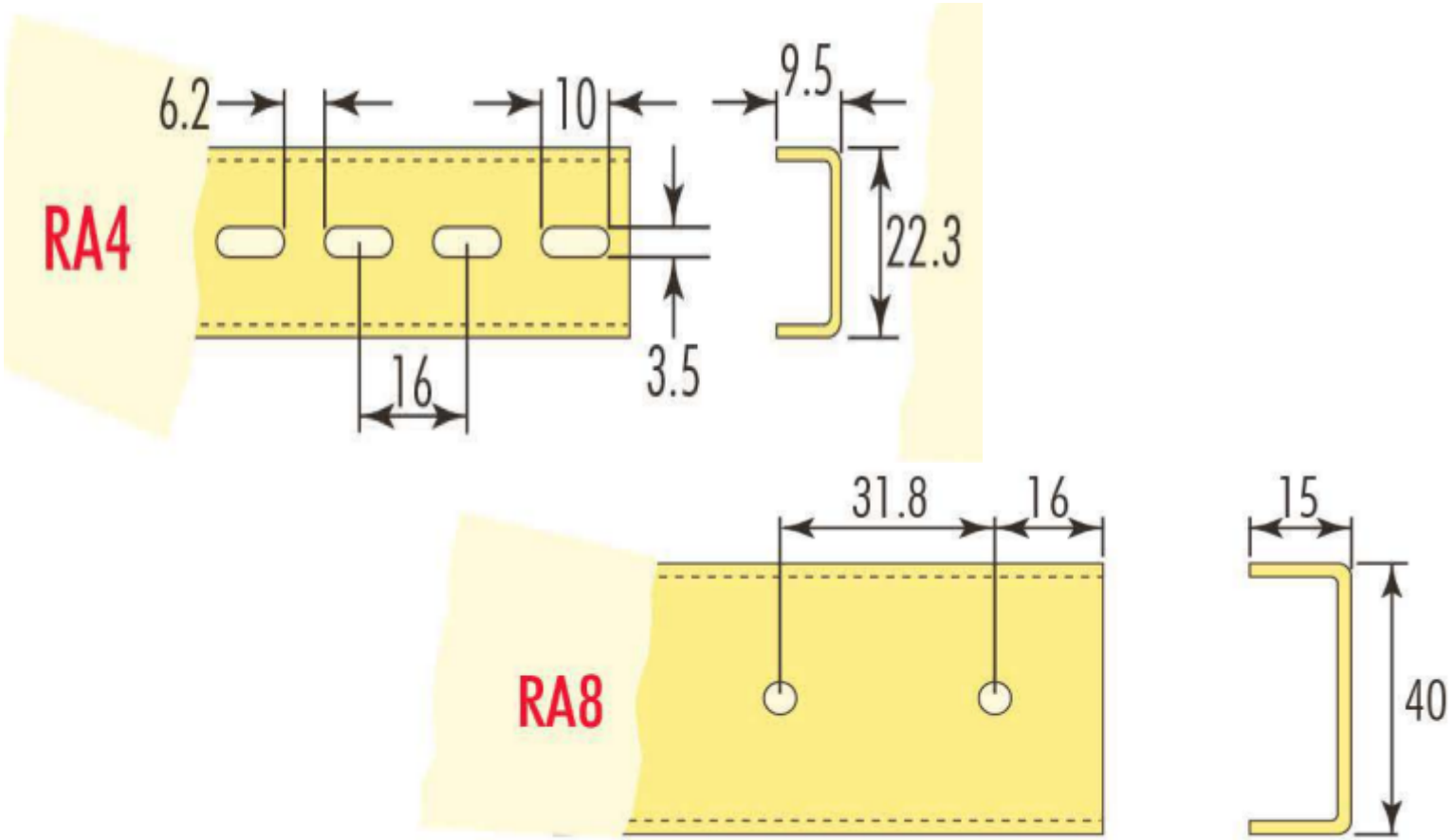
* Fixing screw length assumes stand mounting rail used.
† Drip Solder Pin

MOUNTING RAILS

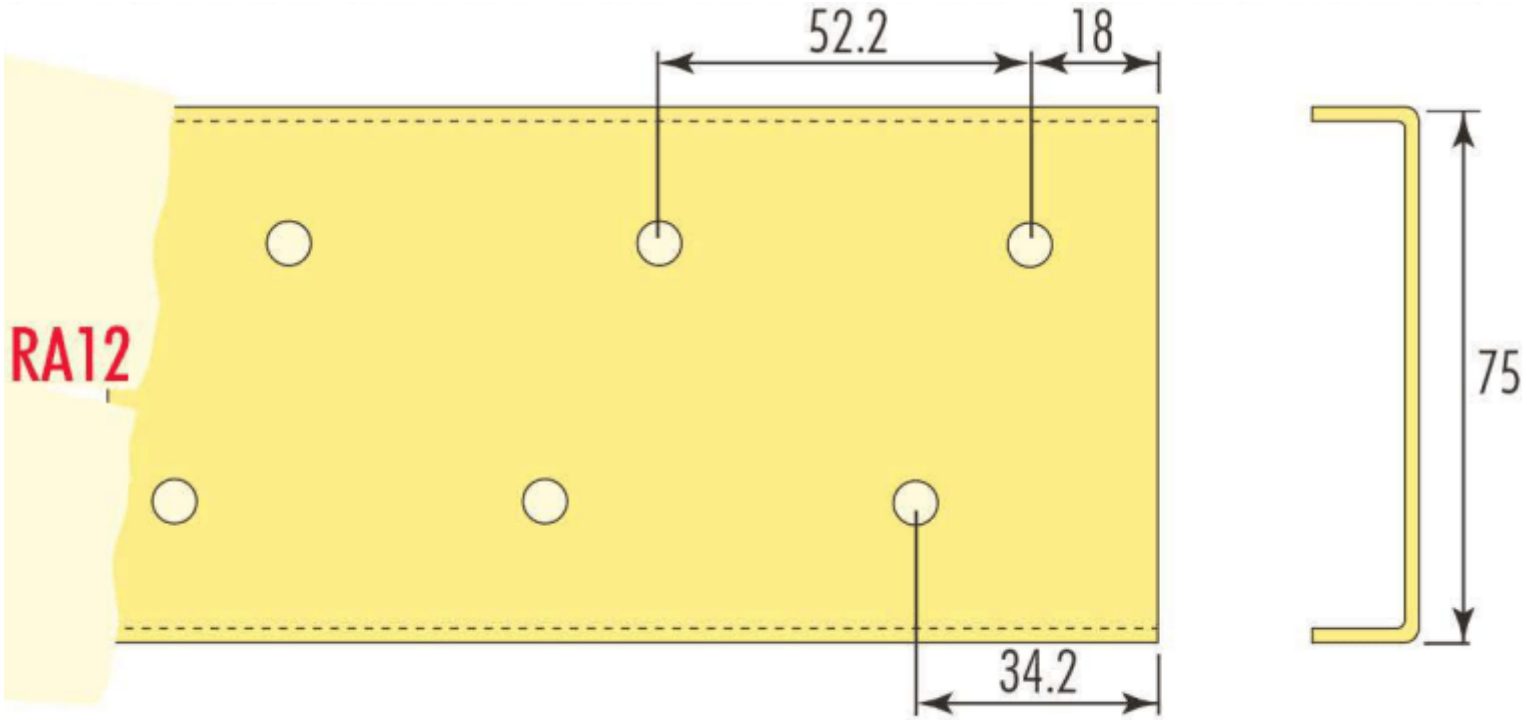
Supplied in 1 Metre lengths unless detailed otherwise.

Mild Steel—Zinc Plated and Passivate





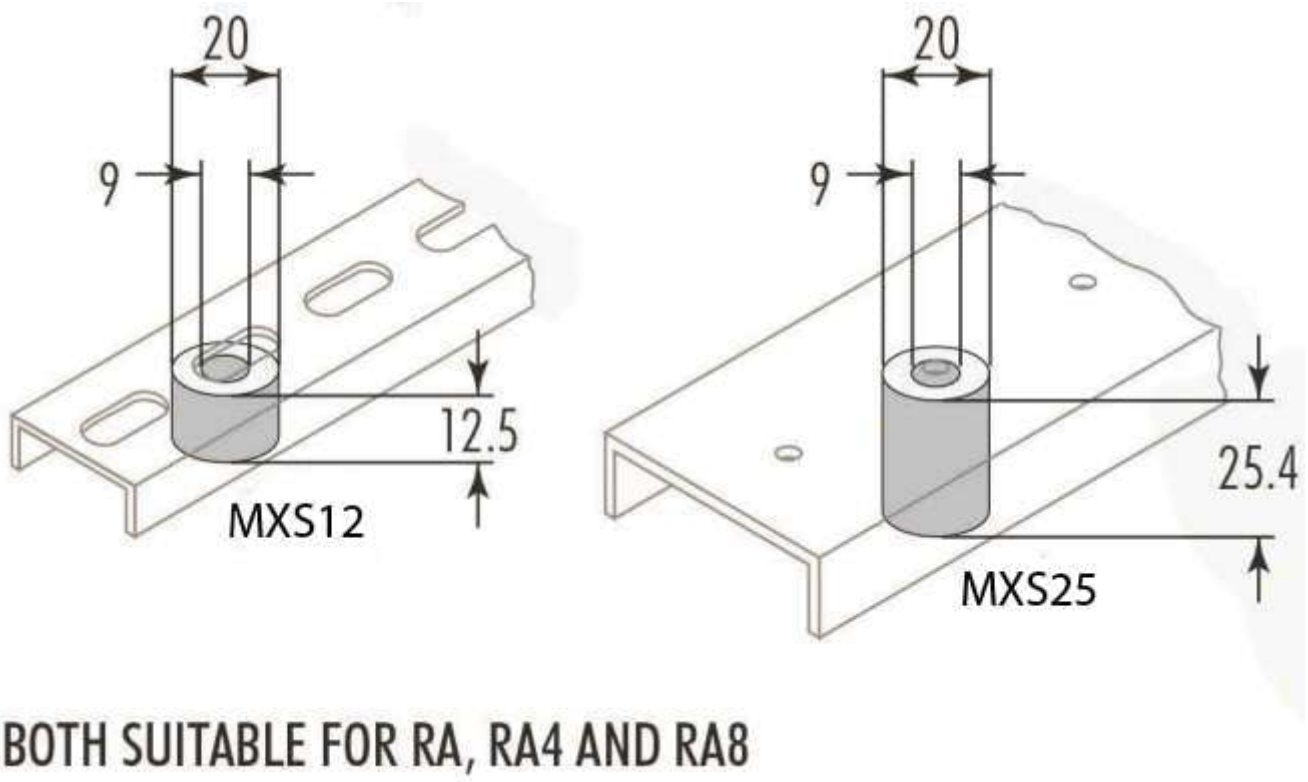
2.0mm CHANNEL SECTION, 4.8mm DIA HOLES (31 HOLES IN 987.5mm LENGTH)



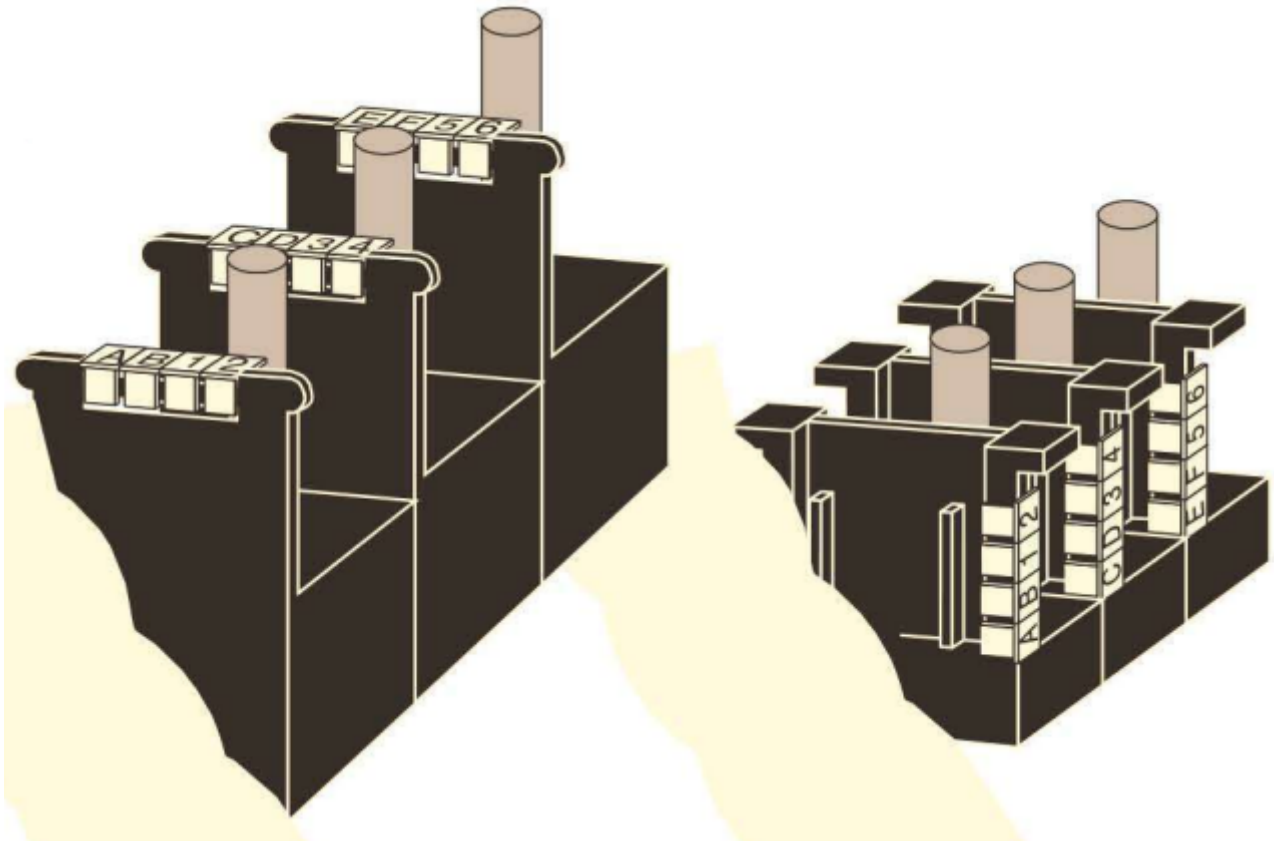
2.0mm CHANNEL SECTION, 6.2mm DIA HOLES (38 HOLES IN 991.8mm LENGTH)

MOUNTING RAILS SPACERS

To support rail when fixing.

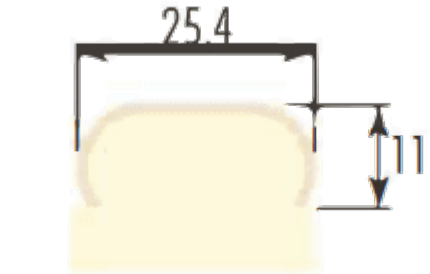


MARKERS 91506

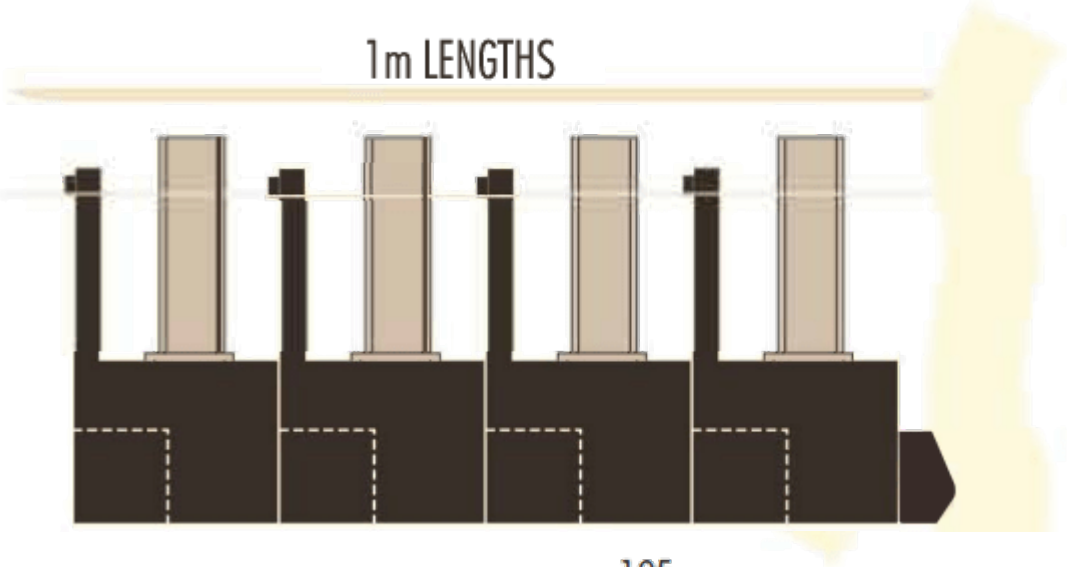


COVERS

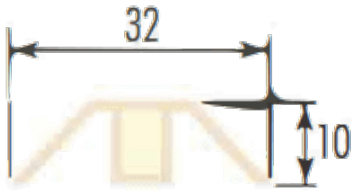
CBA



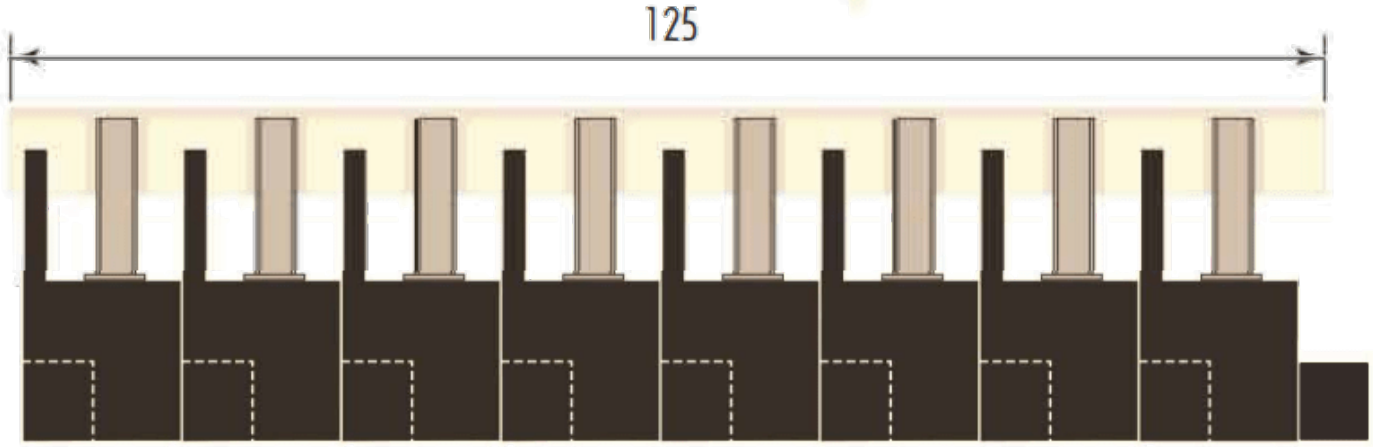
CLIPS ON TO BARRIER OF
M4A, MBA5 AND MBA6

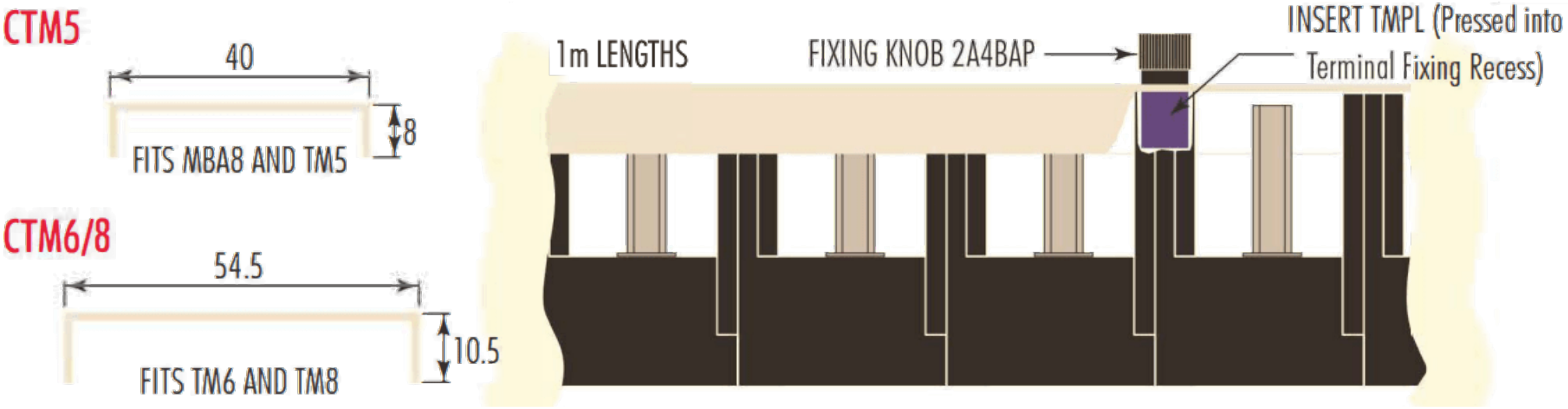


CBA4



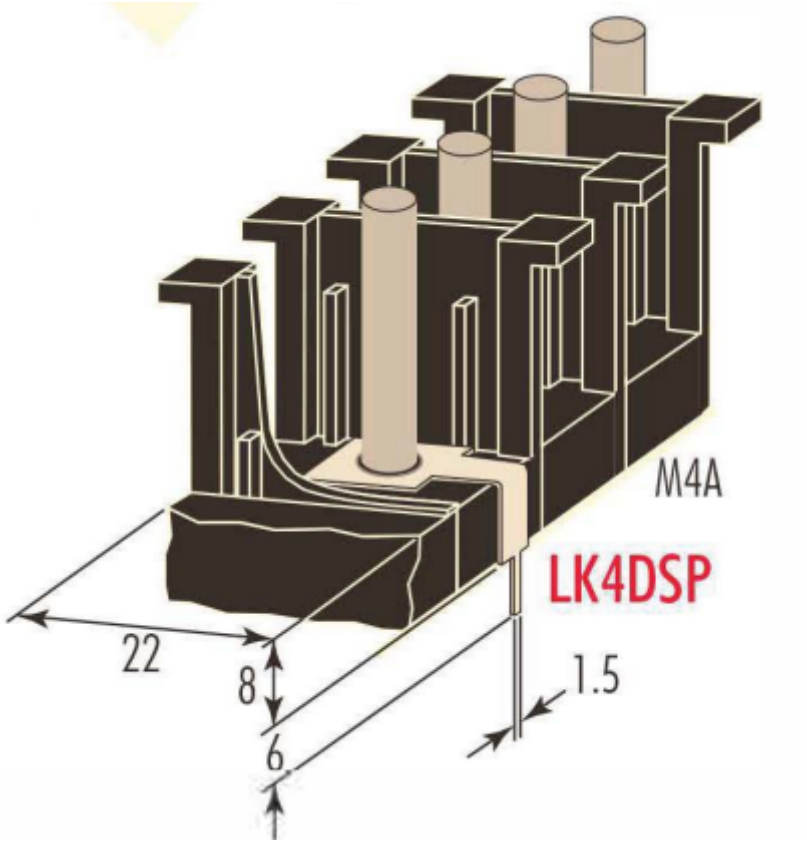
EIGHT-WAY COVER FOR TBA4
PUSH-ON FIT OVER STUDS
125mm LENGTHS



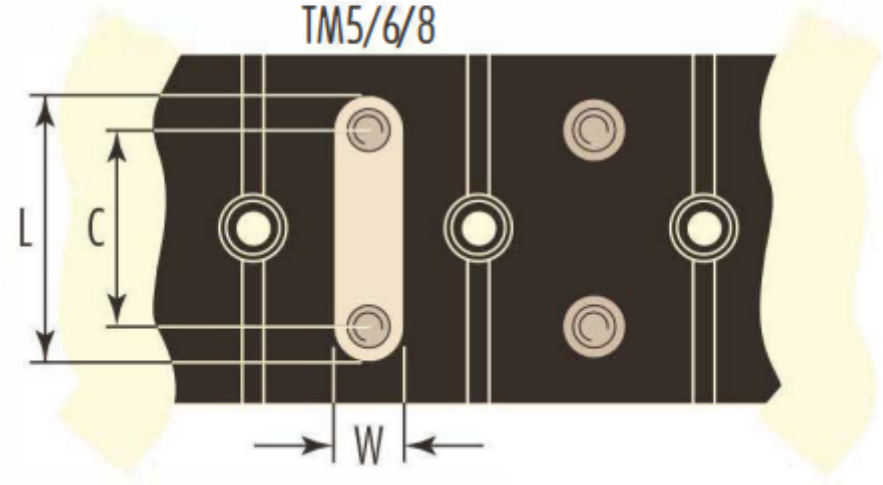


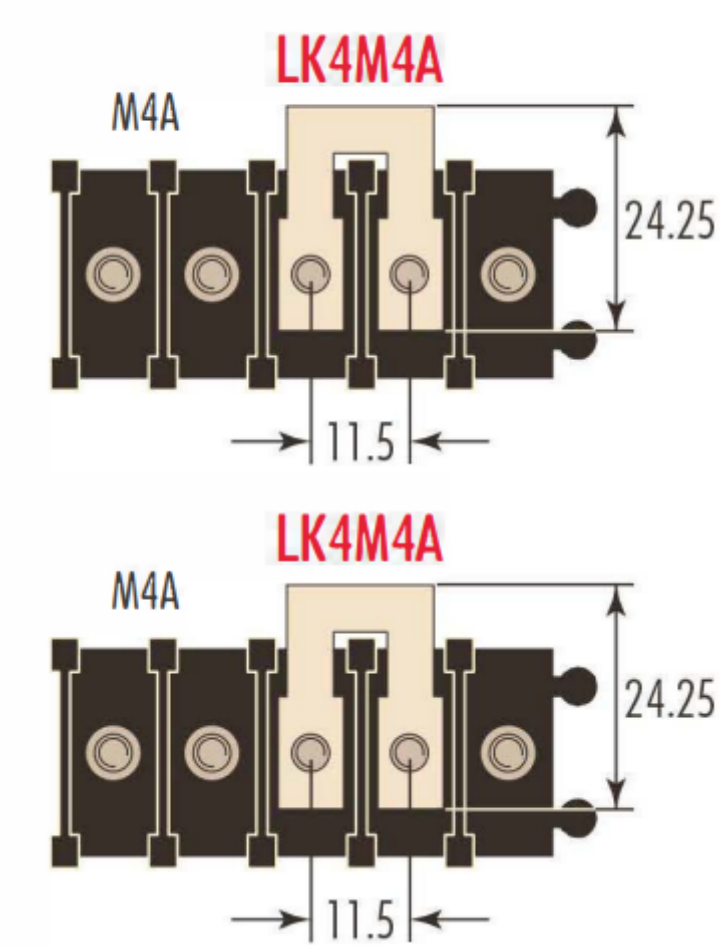
LINKS

Link Part Number	Current Rating Amps	L mm	W mm	Thickness mm	C mm	Dia holes mm
LK4MS/A	15	25.4	10	1.00	16	4.2
LK5TM/A	25	33	10	1.50	22.26	5.5
LK6A	60	32	13	1.25	22	6.3
LK6TM	60	40	12	1.25	28	6.3
LK8TM	100	44	16	2.00	28	8.5

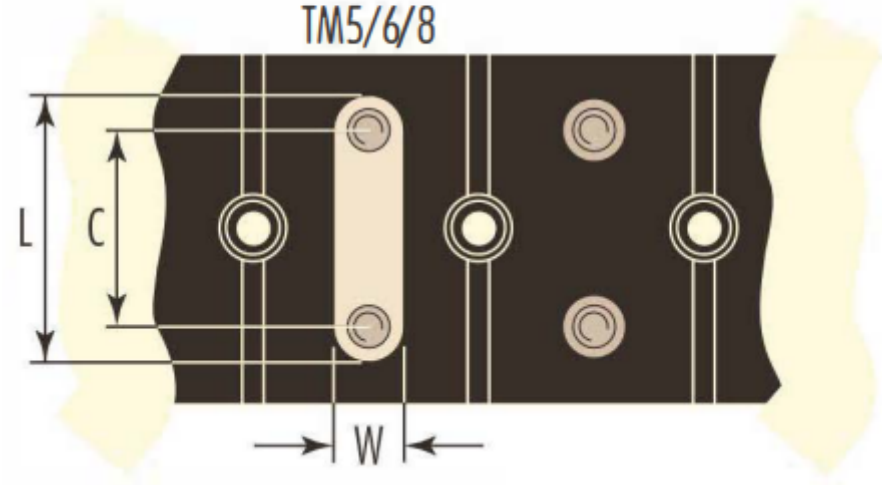

M4A
LK4DSP
22
8
6
1.5

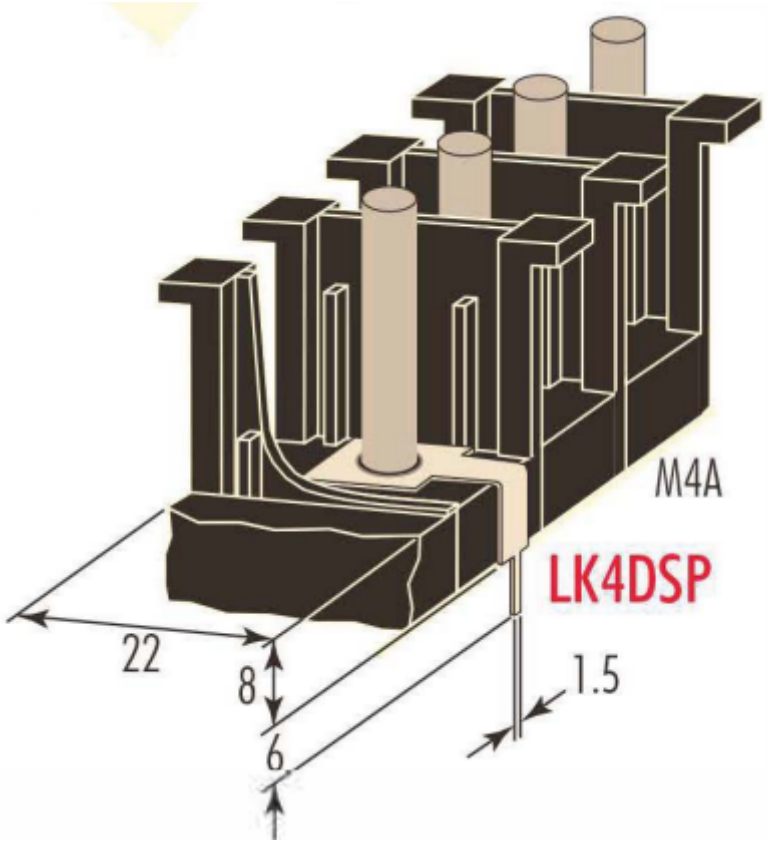
LK5TM/A, LK6TM, LK8TM




LK4M4A
M4A
24.25
11.5
LK4M4A
M4A
24.25
11.5

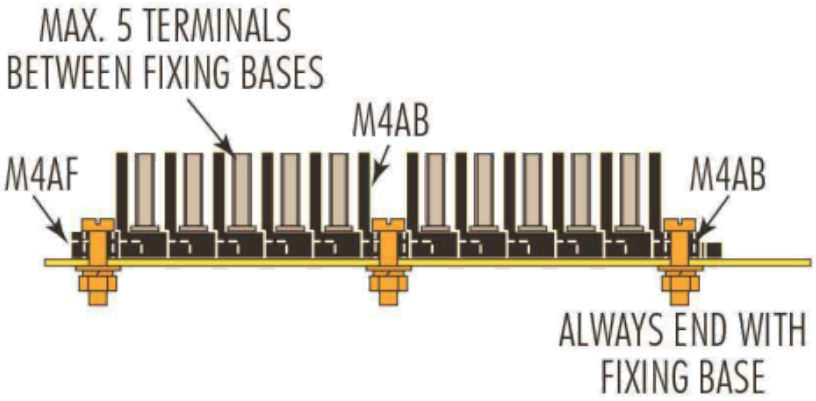
LK5TM/A, LK6TM, LK8TM

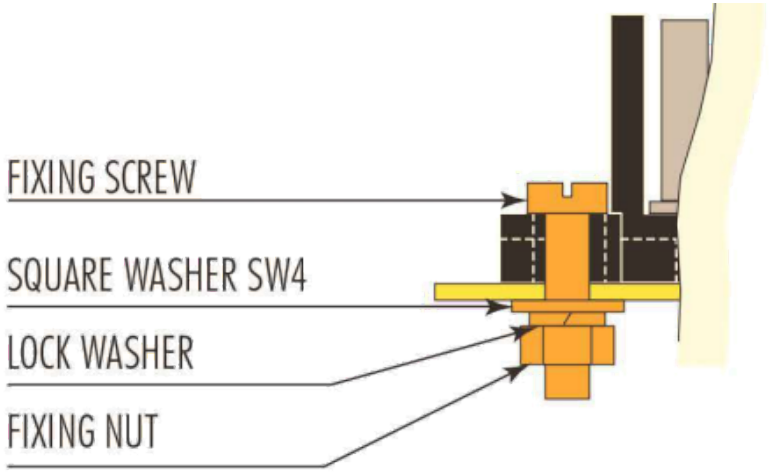


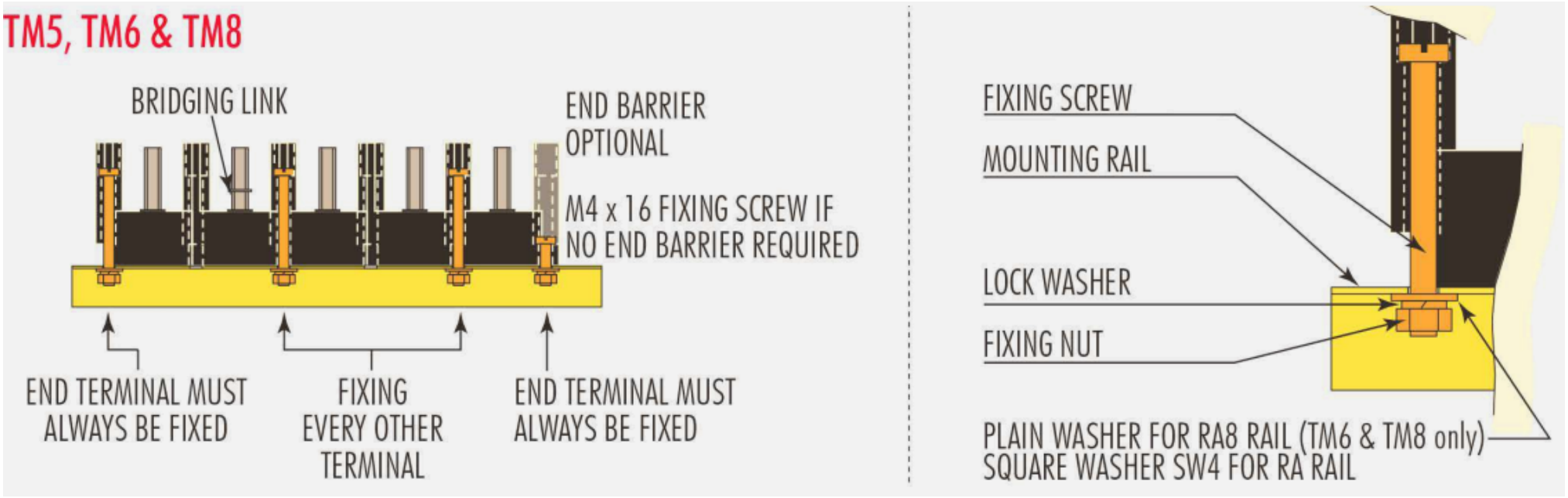


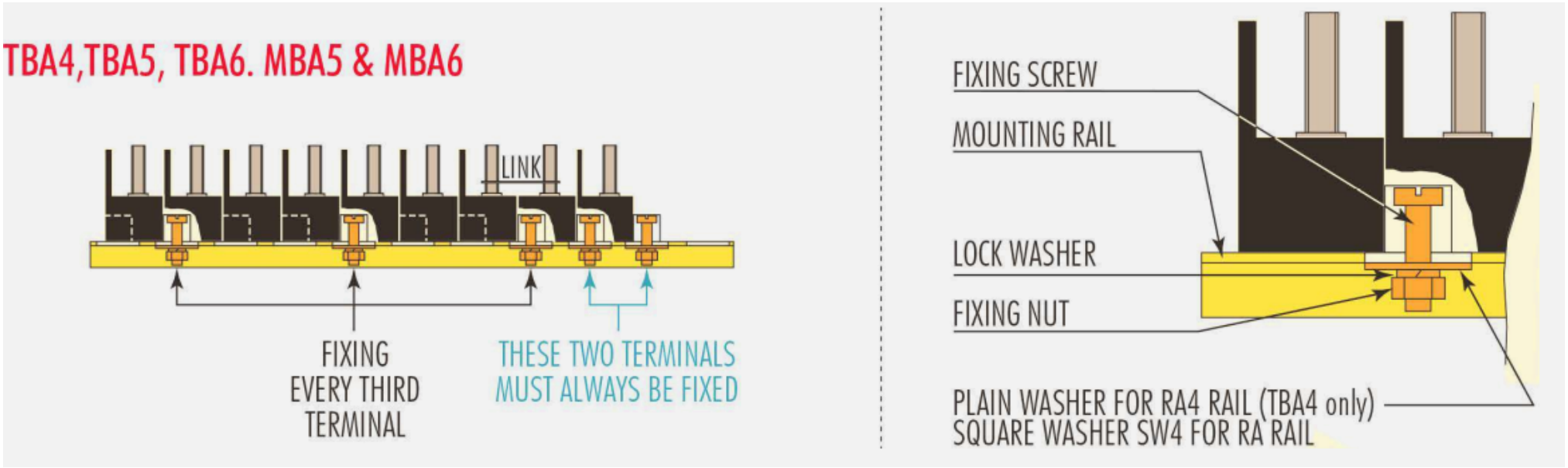
ASSEMBLY DETAILS

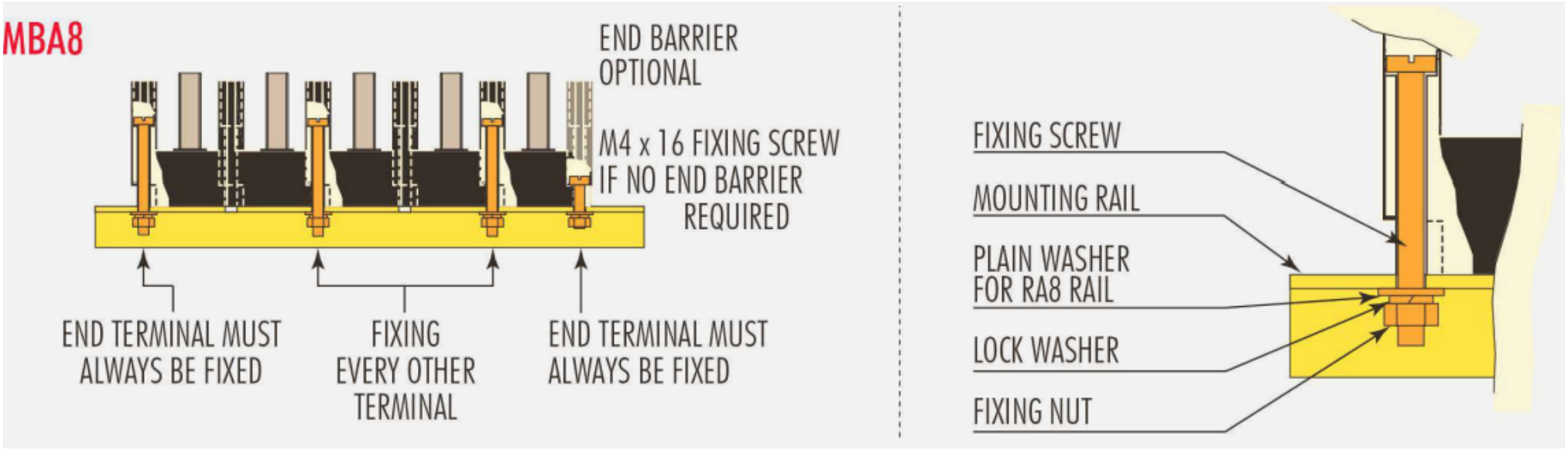
M4A, M4AB & M4AF



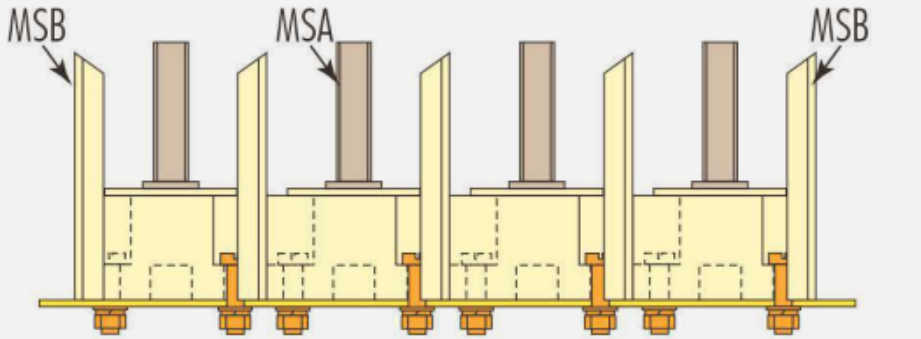


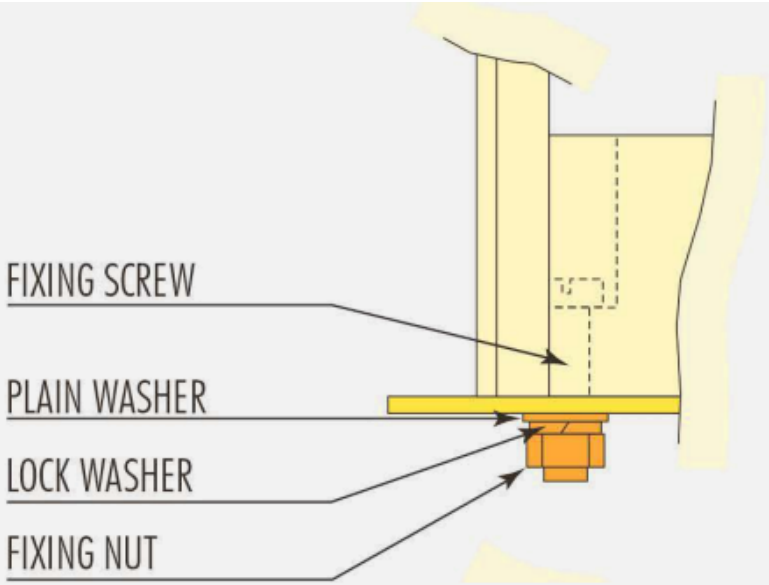

TM5, TM6 & TM8
BRIDGING LINK
END BARRIER OPTIONAL
M4 x 16 FIXING SCREW IF NO END BARRIER REQUIRED
END TERMINAL MUST ALWAYS BE FIXED
FIXING EVERY OTHER TERMINAL
END TERMINAL MUST ALWAYS BE FIXED
FIXING SCREW
MOUNTING RAIL
LOCK WASHER
FIXING NUT
PLAIN WASHER FOR RA8 RAIL (TM6 & TM8 only)
SQUARE WASHER SW4 FOR RA RAIL

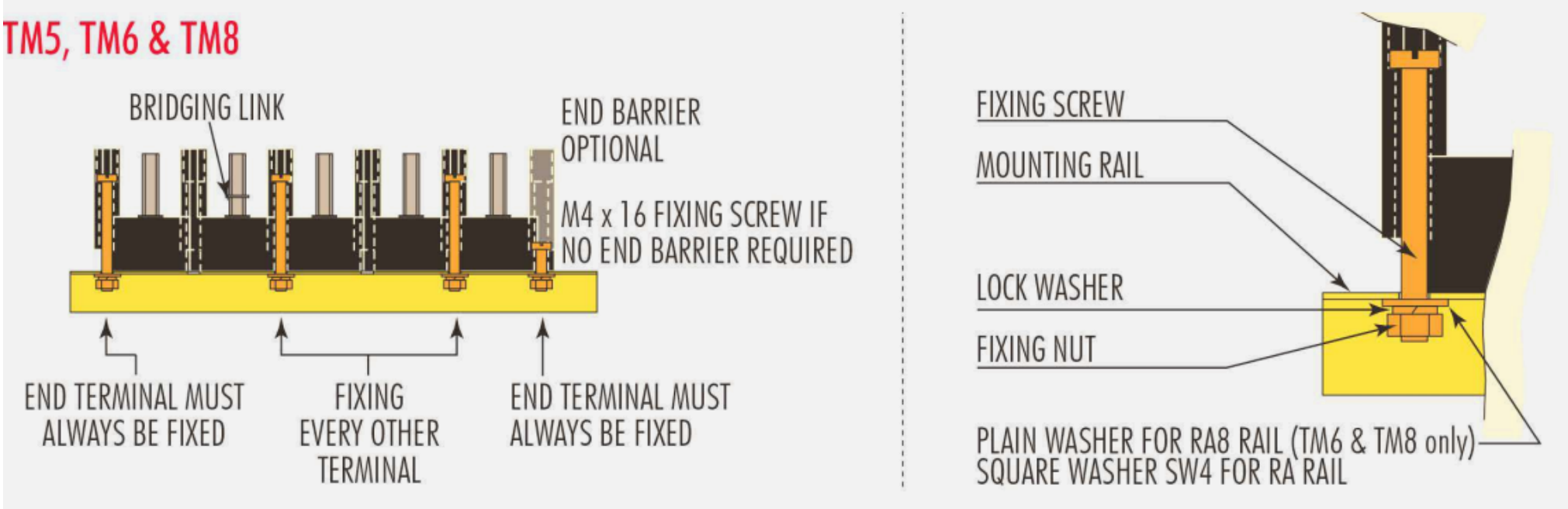

TBA4,TBA5, TBA6. MBA5 & MBA6
LINK
FIXING
EVERY THIRD
TERMINAL
THESE TWO TERMINALS
MUST ALWAYS BE FIXED
FIXING SCREW
MOUNTING RAIL
LOCK WASHER
FIXING NUT
PLAIN WASHER FOR RA4 RAIL (TBA4 only)
SQUARE WASHER SW4 FOR RA RAIL


MBA8
END BARRIER OPTIONAL
M4 x 16 FIXING SCREW IF NO END BARRIER REQUIRED
END TERMINAL MUST ALWAYS BE FIXED
FIXING EVERY OTHER TERMINAL
END TERMINAL MUST ALWAYS BE FIXED
FIXING SCREW
MOUNTING RAIL
PLAIN WASHER FOR RA8 RAIL
LOCK WASHER
FIXING NUT

MSA10 & MSA12


MSB
MSA
MSB
TWO FIXINGS
EACH TERMINAL
SPECIAL MOUNTING RAILS CAN BE
MANUFACTURED TO SUIT TER-MAXI
TERMINALS - DETAILS ON REQUEST


FIXING SCREW
PLAIN WASHER
LOCK WASHER
FIXING NUT



TECHNICAL DATA

Part Number	Creepage Distance Terminal to Terminal (mm)	Creepage Distance Terminal to Earth (mm)	Clearance Distance Terminal to Terminal (measured with unfurnished studs)	Provision for Marker Tags
M4A	20.5	7.5	7.5	up to 4 per side

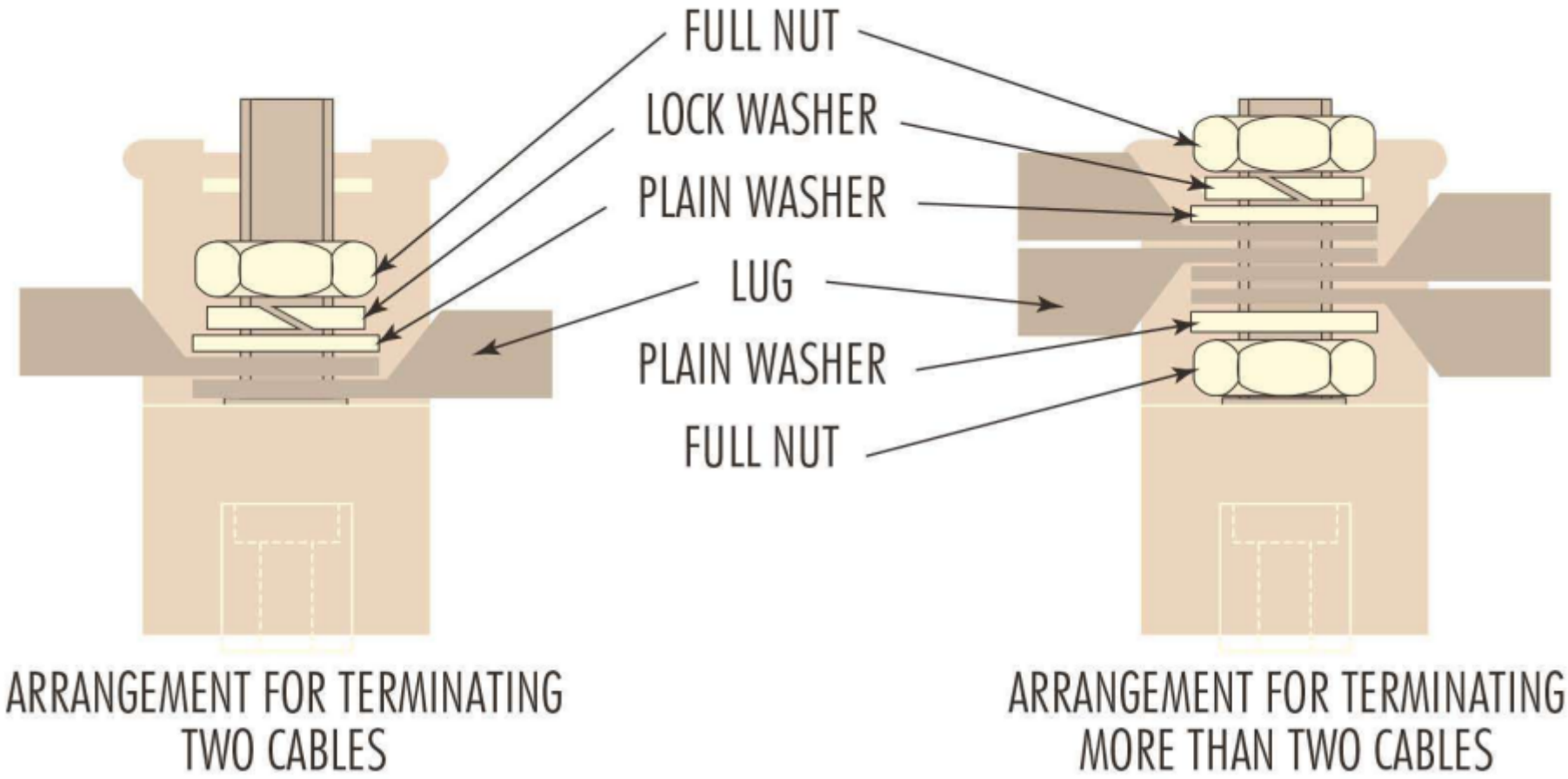
Part Number	Creepage Distance Terminal to Terminal (mm)	Creepage Distance Terminal to Earth (mm)	Clearance Distance Terminal to Terminal (measured with unfurnished studs)	Provision for Marker Tags
M4A BRASS	20.5	7.5	7.5	up to 4 per side
M4AB	–	–	–	up to 4 per side
M4AF	–	–	–	–
TBA4	17.0	13.0	11.5	–
TSA4	17.0	13.0	11.5	–
Base TBA4	–	–	–	–
TBA5	24.0	14.0	17.0	–
TSA5	24.0	14.0	17.0	–
Base TBA5	–	–	–	–
TBA6	22.5	13.5	16.0	–
TSA6	22.5	13.5	16.0	–
MBA5	24.0	14.0	17.0	Up to 4
MSA5	24.0	14.0	17.0	–
MBA6	22.5	13.5	16.0	Up to 4
MSA6	22.5	13.5	16.0	–

Part Number	Creepage Distance Terminal to Terminal (mm)	Creepage Distance Terminal to Earth (mm)	Clearance Distance Terminal to Terminal (measured with unfurnished studs)	Provision for Marker Tags
Base MBA	–	–	–	Up to 4
MBA8	22.5	22.0	24.0	up to 6
MB8	–	–	–	up to 6
MSA10	41.5	35.0	34.0	–
MSA12	41.5	35.0	34.0	–
MSB	–	–	–	up to 4
TM5	15.0	13.0	14.0	up to 6
TMB	–	–	–	up to 6
Base TM5	–	–	–	–
TM6	29.5	23.5	25.5	up to 6
TM8	25.5	22.0	24.0	up to 6
TMB8	–	–	–	up to 6

METHODS OF TERMINATING CONNECTIONS

Each stud provides a bolting medium for two or more cables.

This method of connection is particularly suitable where resistance to vibration is important.


FULL NUT
LOCK WASHER
PLAIN WASHER
LUG
PLAIN WASHER
FULL NUT
ARRANGEMENT FOR TERMINATING TWO CABLES
ARRANGEMENT FOR TERMINATING MORE THAN TWO CABLES

Termate is committed to the highest standard of customer focus and we have made every effort to maintain the accuracy and completeness of the information provided in this data.

Where improvements to our products affect their installation and usage we endeavour to contact any customers who may be affected.

Warranty as stated in our **Terms and Conditions of Trading** is void if any modification is made to the warranted product.