



2026 General Insulators Catalog

TECHNICAL SPECIFICATIONS

MECHANICAL AND PHYSICAL CONSTRUCTION FEATURE

* Produced of special nonflammable and unbreakable N6 %30 plastic raw material.

* Types:

- 1- For 5mm bars 3x1F:Three phases 3x380V. For copper width 5mm Bars mounted to Low voltage panels.
- 2- For 10mm bars 3x1F:Three phases 3x380V. For copper width 10mm Bars mounted to Low voltage panels.
- 3- 3x2F:Two bars,three phases,3x380V. For copper width 5mm and 10mm Bars mounted to Low voltage panels.
- 4- 2Fx3F:Two or three bars,one phases, 1x220V. For copper width 5mm and 10mm Bars mounted to Low voltage panels.
- 5- 3x2F+N:Two bars,three phases+Notr, 3x380V/220V.For copper width 5mm and 10mm Bars mounted to Low voltage panels.
- 6- 4x1F: Three phases + Notr 3x380V/220V. For copper width 5mm and 10mm Bars mounted to Low voltage panels.

SHORT CIRCUIT FEATURE

* Short circuit resistance effective values(kA): it's took possitive result at cu40x10 copper bar support insulator distance: 450 mm and 40ka.

* Possible to see short circuit type test document at Ertka Electric website. (www.ertka.com)

VOLTAGE ISOLATION FEATURE

* 2,5kv isolation(dielectric strength) test: 2,5 kv. voltage applied 60 sec. and took possitive result.

* Rated voltage insulation: 2000v for pollution class 3.

* Rated voltage insulation: 1000v for pollution class 4.

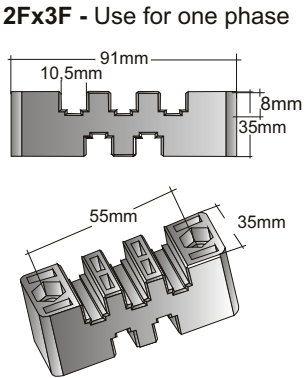
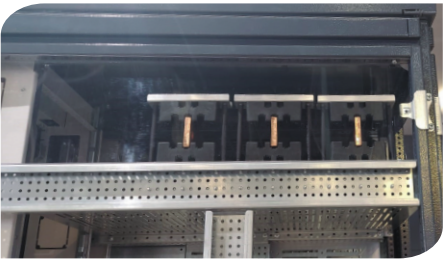
FLAMABBLE FEATURE

* After separete glow wire then flame was gone out after 2 sec.

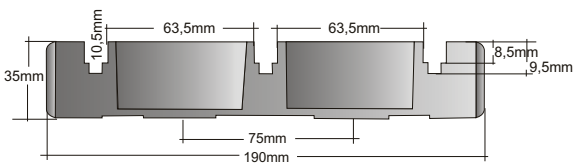
* Flame(glow wire test) test applied 60 sec. and 960 degree for VDE norms.

* Halogen Free - V0

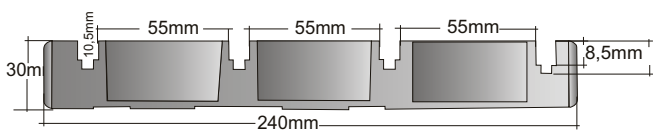
* Continuous operating max. temperature:130 degree.



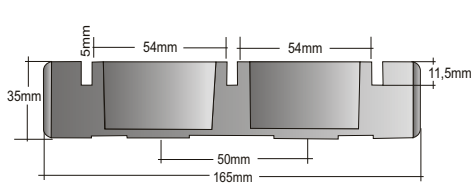
3x1F - For 10mm bar. Use for in three-phase circuits



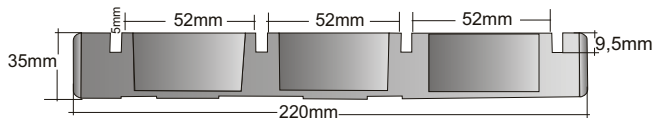
4x1F - Use for three-phase+nötr bars



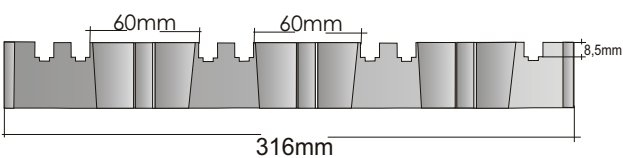
3x1F - 5mm bar. Use for in three-phase circuits



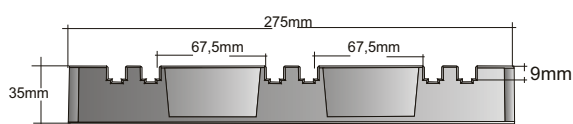
4x1F - 5mm Use for three-phase+nötr bars



3x2F+N - Use for three phase+notr, with dual-busbar circuits



3x2F - Use for three-phase,two bars circuits



Order No	Product Name	Box Qty.
BUSBAR SUPPORT INSULATORS		
32001	For 10 mm Bar 3x1F BUSBAR SUPPORT INSULATOR For 5 ve 10 mm Bars - 19cm	55
32002	For 5 mm Bar 3x1F BUSBAR SUPPORT INSULATOR For 5 ve 10 mm Bars - 16,5cm	55
32003	3x2F BUSBAR SUPPORT INSULATOR For 5 ve 10 mm Bars - 27,5cm	40
32004	2Fx3F BUSBAR SUPPORT INSULATOR For 5 ve 10 mm Bars - 10cm	100
32005	3x2F+N BUSBAR SUPPORT INSULATOR For 5 ve 10 mm Bars - 32cm	40
32006	For 10 mm Bar 4x1F BUSBAR SUPPORT INSULATOR For 10 mm Bars - 24,5cm	42
32007	For 5 mm Bar 4x1F BUSBAR SUPPORT INSULATOR For 5 mm Bars - 22cm	42

TECHNICAL SPECIFICATIONS

MECHICAL AND PHYSICAL CONSTRUCTION FEATURE

- * Very high mechanical resistance.
- * Produced of special nonflammable and unbreakable N6 %30.
- * M4,M5,M6,M8,M10 scheduled for bold connection and made.
- * Blind nuts are made from high-quality brass or steel.
- * Suitable for a hexagon key.

SHORT CIRCUIT FEATURE

- * High dielectric resistance.
- * Possitive result of 8 kV isolation(dielectric strength) test, 8 kV voltage 60 sec. applied and took possitive result.
- * Rated voltage insulation: 2000v for pollution class 3.
- * Rated voltage insulation: 1000v for pollution class 4.

VOLTAGE ISOLATION FEATURE

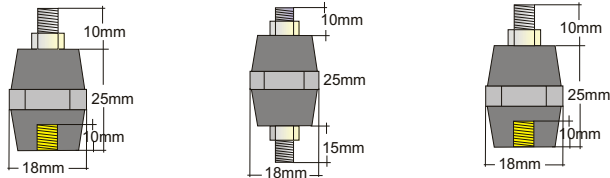
- * Possitive result of 8 kV isolation(dielectric strength) test, 8 kV voltage 60 sec. applied and took possitive result.
- * Rated voltage insulation: 2000v for pollution class 3.
- * Rated voltage insulation: 1000v for pollution class 4.

FLAMMABILITY FEATURE

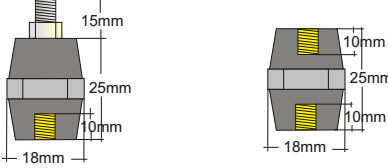
- * After separete glow wire then flame was gone out after 2 sec.
- * Flame(glow wire test) test applied 60 sec. and 960 degree for VDE norms.
- * Halogen Free - V0
- * Continuous operating max. temperature:130 degree.

Insulation Length:25mm

M4-Single bolt+Blind nut(Bolt length:10mm) M5-Double bolt M5-Single bolt+Blind nut(Bolt length:10mm)

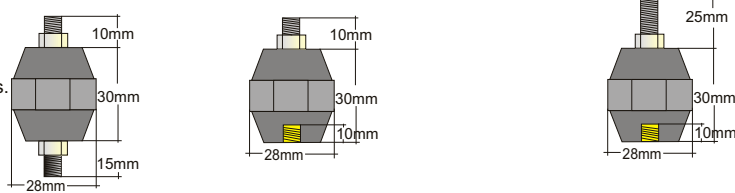


M5-Single bolt+Blind nut(Bolt length:15mm) M5-Blind nut at two sides

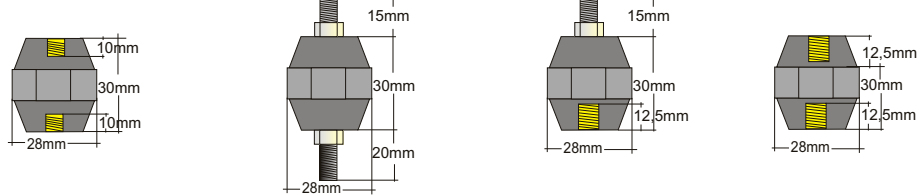


Insulation Length:30mm

M6-Double bolt M6-Single bolt+Blind nut(Bolt length:10mm) M6-Single bolt+Blind nut(Bolt length:25mm)



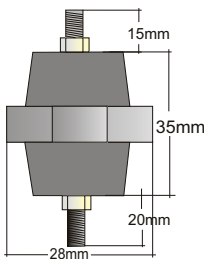
M6-Blind nut at two sides M8-Double bolt M8-Single bolt+Blind nut M8-Double bolt



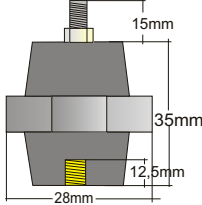
Insulation Length:35mm

Insulation Length:40mm

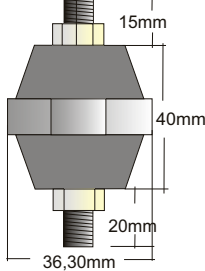
M8-Double bolt



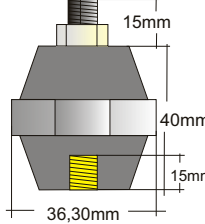
M8-Single bolt+Blind nut



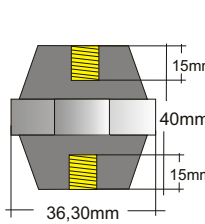
M8-Double bolt



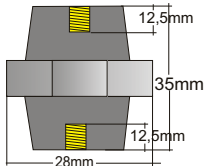
M8-Single bolt+Blind nut



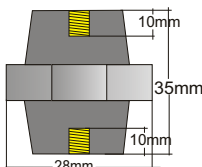
M8-Blind nut at two sides



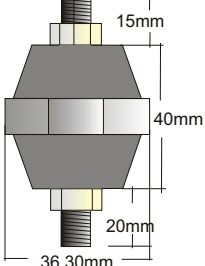
M8-Blind nut at two sides



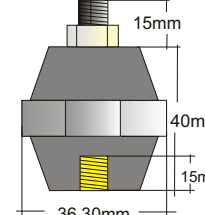
M6-Blind nut at two sides



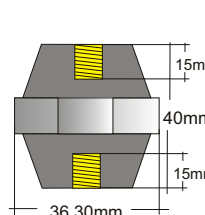
M10-Double bolt



M10-Single bolt+Blind nut



M10-Blind nut at two sides



Order No

Product Name

Box Qty.

ISOLATION LENGTH: 25mm

31002-4	M4	SINGLE BOLT + BLIND NUT	500
31001-5	M5	DOUBLE BOLT	500
31002-510	M5	SINGLE BOLT + BLIND NUT (Bolt Length:10mm)	500
31002-515	M5	SINGLE BOLT + BLIND NUT (Bolt Length:15mm)	500
31003-5	M5	BLIND NUT	500

ISOLATION LENGTH: 30mm

31001-6	M6	DOUBLE BOLT	300
31002-6	M6	SINGLE BOLT + BLIND NUT	300
31002-625	M6	SINGLE BOLT + BLIND NUT (Bolt Length:25mm)	300
31003-6	M6	BLIND NUT	300
31010-8	M8	DOUBLE BOLT	250
31011-8	M8	SINGLE BOLT + BLIND NUT	250
31012-8	M8	BLIND NUT	250

ISOLATION LENGTH: 35mm

31020-6	M6	DOUBLE BOLT	200
31021-6	M6	SINGLE BOLT + BLIND NUT	200
31022-6	M6	BLIND NUT	250
31030-8	M8	DOUBLE BOLT	200
31031-8	M8	SINGLE BOLT + BLIND NUT	200
31032-8	M8	BLIND NUT	200

ISOLATION LENGTH: 40mm

31003-640	M6	BLIND NUT	150
31001-8	M8	DOUBLE BOLT	150
31002-8	M8	SINGLE BOLT + BLIND NUT	150
31003-8	M8	BLIND NUT	150
31001-10	M10	DOUBLE BOLT	150
31002-10	M10	DOUBLE BOLT	150
31003-10	M10	BLIND NUT	150

TECHNICAL SPECIFICATIONS

MECHANICAL AND PHYSICAL CONSTURICION FEATURE

- * Produced of special nonflammable and unbreakable N6 %30 plastic raw material.
- * Types:
 - 1- **1x4F**:One phase and width: **10mm** Four bars 1x220V. For mounted to Low voltage panels,
 - 2- **1x4F**:One phase and width: **5mm** Four bars 1x220V. For mounted to Low voltage panels,
 - 3- **3x1F Horizontal**:Three phase 3x380V. For mounted of 10 function horizontal, width **5 and 10mm** bars to Low voltage panels.
 - 4- **4x2F:Horizontal**:Three phase 3x380V. For mounted of 10 function horizontal, width **5 and 10mm** bars to Low voltage panels.

SHORT CIRCUIT FEATURE

- * Short circuit resistance effective values(kA):
 - Possitive result at cu40x10 copper bar support insulator distance:450 mm and 40ka.
- * Possible to see short circuit type test document at Ertka website. (www.ertka.com)

VOLTAGE ISOLATION FEATURE

- * 2,5kv isolation(dielectric strength) test 2,5 kv. voltage applied 60 sec. and took possitive result.
- * Rated voltage insulation: 2000v for pollution class 3.
- * Rated voltage insulation: 1000v for pollution class 4.

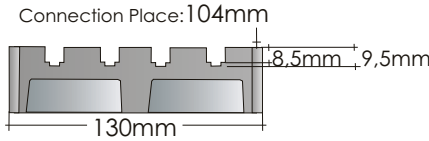
FLAMABBLE FEATURE

- * After separete glow wire then flame was gone out after 2 sec.
- * Flame(glow wire test) test applied 60 sec. and 960 degree for VDE norms.
- * Halogen Free - V0
- * Continuous operating max. temperature:130 degree.

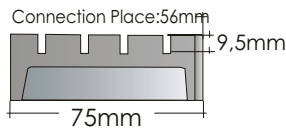
3x1F Horizontal Busbar Support insulator (10 Function)

- * For designed Cu 12x5 ve Cu 12x10 busbar,
- For designed Cu 15x5 ve Cu 15x10 busbar,
- For designed Cu 20x5 ve Cu 20x10 busbar,
- For designed Cu 25x5 ve Cu 25x10 busbar,
- For designed Cu 30x5 ve Cu 30x10 bar.
- * Fixation is carried out in four places,
- * There are four M5 bolts in this isolator,
- * Proper connection with Siemens fuse switches.
- * Produced of special nonflammable and unbreakable N6 %30.
- * Consists of three parts.

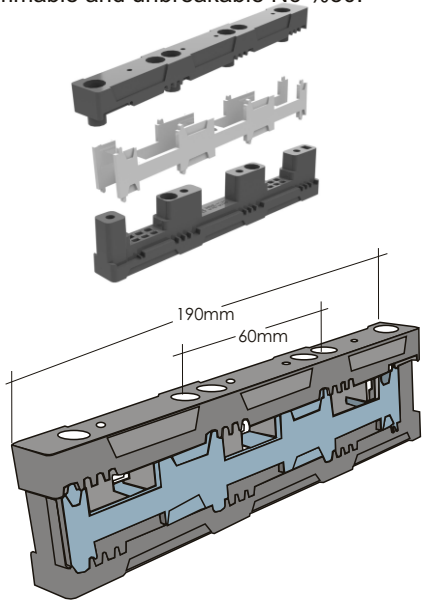
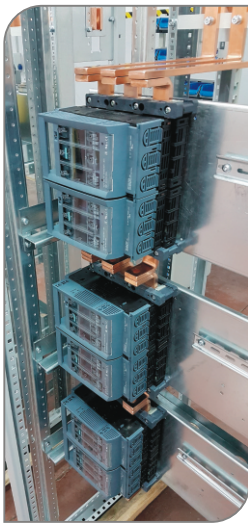
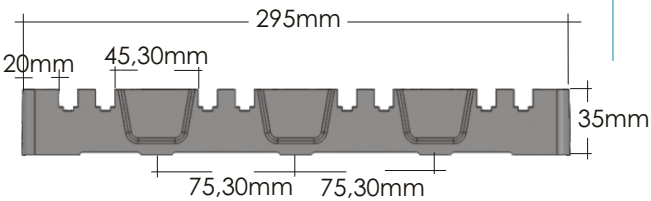
1x4F-Use for 10mm bar. Use 4 bar for one phase



1x4F-Use for 5mm bar. Use 4 bar for one phase.



4x2F-Use for 5mm and 10mm bar.



Order No	Product Name	Box Qty.
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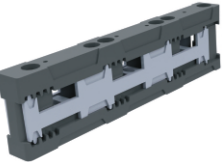
BUSBAR SUPPORT INSULATORS



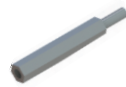
32008	For 10mm Bar 1x4F BUSBAR SUPPORT INSULATOR For 5 and 10mm Bars - 13cm (4 Bar to 1 Phase)	84
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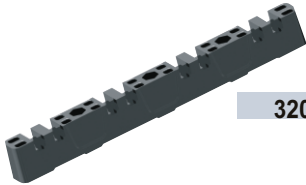
32009	For 5mm Bar 1x4F BUSBAR SUPPORT INSULATOR For 5mm Bar - 7,5cm (4 Bar to 1 Phase)	80
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32010	3x1F HORIZONTAL BUSBAR SUPPORT INSULATOR For (12-15-20-25-30/5 and 10)mm Bars - 19cm (10 Functional Insulator)	50
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32010-1	3x1F HORIZONTAL BUSBAR - COVER PLATE Distance Piece.L: 50mm M5 FEMALE-MALE BOLT SCREW	100
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32011	4x2F BUSBAR SUPPORT INSULATOR For 5 and 10 mm Bar - 30cm	40
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42301	M6 Tie Rod (GIJON) - 1mt. - Zinc Plated	10
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42302	M8 Tie Rod (GIJON) - 1mt. - Zinc Plated	10
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42305	M8 Tie Rod INSULATION PIPE - 2mt.	50
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TECHNICAL SPECIFICATIONS

MULTIFUNCTIONAL HOLDER FOR 10 MM MAIN BUSBAR MECHANICAL AND USAGE INSTRUCTIONS:

- 1- Produced of special nonflammable and unbreakable N6 %30 plastic raw material.

2- **4x2F**: Only 2 or 4 busbars can be installed on a single phase.

3- Use for only 4 types of bars: Cu20x10 / Cu30x10 / Cu40x10 / Cu50x10

4- Suitable for low-voltage main distribution panels.

5- It's used in panels where two vertical busbars are connected in series for each phase.

6- The current ratings for two or four vertical busbars per phase are as follows:
2Cu20x10.....820A,
4Cu20x10.....1600A,

2Cu30x10.....1000A,
4Cu30x10.....2000A,

2Cu40x10.....1250A,
4Cu40x10.....2250A,

2Cu50x10.....1500A,
4Cu50x10.....2500A,

7- The mounting stud bolt shall be stainless steel, M8, and 150 mm in length (M8×150).

8- To prevent back loosening, one face of the M8 nut shall be flattened.

9- Four spacers are used in the connections of Cu 20×10, 30×10, 40×10, and 50×10 busbars.

VOLTAGE ISOLATION FEATURE

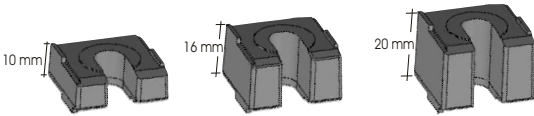
- * 2,5kv isolation(dielectric strength) test 2,5 kv. voltage applied 60 sec. and took possitive result.
- * Rated voltage insulation: 2000v for pollution class 3.
- * Rated voltage insulation: 1000v for pollution class 4.

FLAMABBLE FEATURE

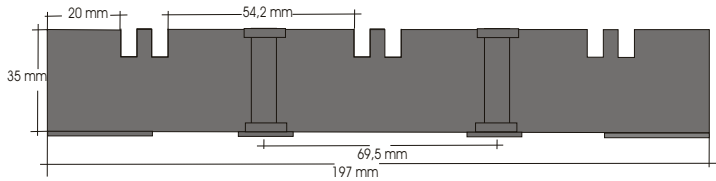
- * After separete glow wire then flame was gone out after 2 sec.
- * Flame(glow wire test) test applied 60 sec. and 960 degree for VDE norms.
- * Halogen Free - V0.
- * Continuous operating max. temperature:130 degree.

Busbar Stand-off Spacers:

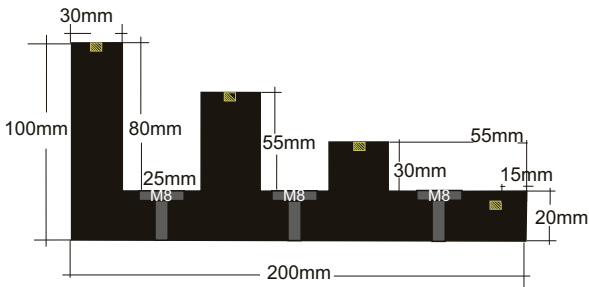
- 3 types:
- 1-Height:10mm,
- 2-Height:16mm,
- 3-Height:20mm,
- Four spacers are used in the connections of Cu 20×10, 30×10, 40×10, and 50×10 busbars.



5mm 3x2F three phase,using in dual-busbar circuits.

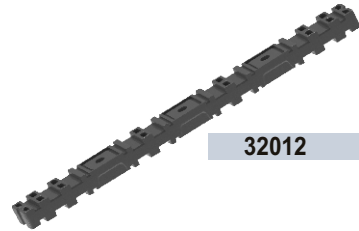


M6 Stepped Busbar Support Insulator with Blind Nut



Order No	Product Name	Box Qty.
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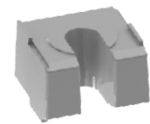
BUSBAR SUPPORT INSULATORS



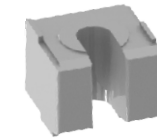
32012	For 10mm Bar için MAIN BUSBAR HOLDER INSULATOR (Multifunctional Cu20X10,30X10,40X10,50X10)	70
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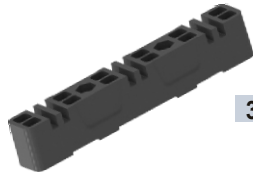
32013	Intermediate Elevation Insulation Spacer (Height:10 mm)	100
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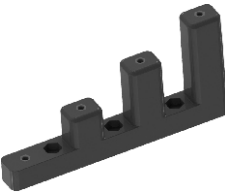
32014	Intermediate Elevation Insulation Spacer (Height:16 mm)	100
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32015	Intermediate Elevation Insulation Spacer (Height:20 mm)	100
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32051	For 5mm Bar 3x2F BUSBAR SUPPORT INSULATOR For 5 mm Bars - 20cm	48
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32052	M6 STEPPED BUSBAR SUPPORT INSULATOR WITH BLIND NUT For 5 and 10 mm Bars - 20cm	32
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Ekşioğlu Erdem San. Sit. F4 Blok No:3
Orta Mah. Tepeören-Tuzla / İST. TÜRKİYE

Tel : +90 216 364 23 08

Fax: +90 216 364 23 09

ertka@ertka.com

www.ertka.com

