

Earthing and Short-circuiting Cables

SAFETY EQUIPMENT

EARTHING AND SHORT-CIRCUITING DEVICES

EN/IEC 61230 (DIN VDE 0683 Part 100)

- To be equipped with connecting components
- Transparent sheathing
- Waterproof plastic-sheathed cable entries and node unit, with additional protection against twisting
- Standard crimped cable lugs, type PK1, protected against twisting



Equipped three-pole earthing and short-circuiting device in a switchgear installation.

Technical Data

Cable	E-Cu, extra finely stranded and highly flexible
Sheath	Thermoplastic polymer (flexible PVC compound YM2), uncoloured and transparent
Hole in terminal lug	Ø12.5 mm
Operating temperature range	- 25° C ... + 55° C



Crimped cable lugs, **PK1** type:
Standard cable lug with cut-out for protection against twisting.



Crimped cable lugs, **PK2** type:
Cable lug without cut-out for connecting parts from other manufacturers are available on request.



Crimped cable lugs, **PK3** type:
Hook-type cable lugs up to cable cross sections of 35 mm² are available on request.

Example of price calculation:

For earthing and short-circuiting devices with customised lengths

Three-pole earthing and short-circuiting device, cable cross section 70 mm², like Part No. 770 350, but with conductor lengths of a = 1000 mm and b = 2200 mm

Standard type: a: 70 mm², 3 x 600 = 1800 mm
b: 35 mm², 1 x 1800 = 1800 mm

Customised type: a: 70 mm², 3 x 1000 = 3000 mm
b: 35 mm², 1 x 2200 = 2200 mm

Difference between cable lengths: a: 70 mm² = 1200 mm
b: 35 mm² = 400 mm

Price of standard type, Part No. 770 350 Euro 460.–

Price of difference between cable lengths

Part No. 770 001, 1200 mm x 41.– per 1000 mm Euro 49.20

Part No. 735 001, 400 mm x 20.70 per 1000 mm Euro 9.08

Price of customised unit, total Euro 518.28

Prices without obligation (as of 2009).

Note:
Other hole diameters for terminal lugs are available on request.

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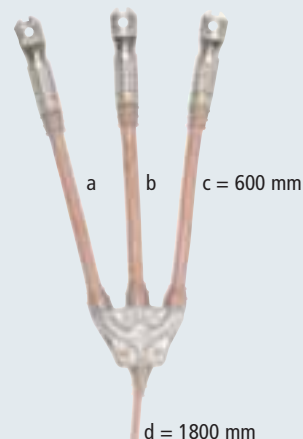


Type	Type of crimped cable lug	Cable cross section	Max. short-circuit current I_k 1 s	Part No.
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A Three-pole Earthing and Short-circuiting Cables

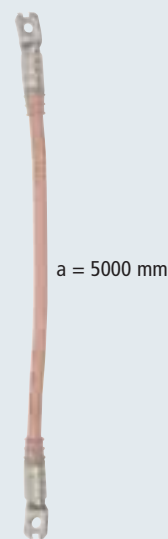
Without equipment

EKS3 PK1 25 25	PK1	25/25 mm ²	4.9 kA	725 604
EKS3 PK1 35 35	PK1	35/35 mm ²	6.9 kA	735 604
EKS3 PK1 50 25	PK1	50/25 mm ²	9.9 kA	750 604
EKS3 PK1 70 35	PK1	70/35 mm ²	13.8 kA	770 604
EKS3 PK1 95 35	PK1	95/35 mm ²	18.7 kA	795 604
EKS3 PK1 120 50	PK1	120/50 mm ²	23.7 kA	712 604
EKS3 PK1 150 50	PK1	150/50 mm ²	29.6 kA	715 604

**B Single-pole Earthing and Short-circuiting Cables**

Without equipment

EKS1 PK1 25 5000	PK1	25 mm ²	4.9 kA	776 425
EKS1 PK1 35 5000	PK1	35 mm ²	6.9 kA	776 435
EKS1 PK1 50 5000	PK1	50 mm ²	9.9 kA	776 450
EKS1 PK1 70 5000	PK1	70 mm ²	13.8 kA	776 470
EKS1 PK1 95 5000	PK1	95 mm ²	18.7 kA	776 495
EKS1 PK1 120 5000	PK1	120 mm ²	23.7 kA	776 412
EKS1 PK1 150 5000	PK1	150 mm ²	29.6 kA	776 415



Other cable lengths, types with unreduced earthing cable cross sections as well as line and earth clamps and cables with crimped cable lugs without protection against twisting (PK2) are available on request.

Accessories for Earthing and Short-circuiting Cables

Earthing Cables in accordance with IEC 61138

For earthing and short-circuiting devices with customised lengths

Type	Cable cross section	Part No.
ES YM2 16	16 mm ²	716 001
ES YM2 25	25 mm ²	725 001
ES YM2 35	35 mm ²	735 001
ES YM2 50	50 mm ²	750 001
ES YM2 70	70 mm ²	770 001
ES YM2 95	95 mm ²	795 001
ES YM2 120	120 mm ²	712 001
ES YM2 150	150 mm ²	715 001

