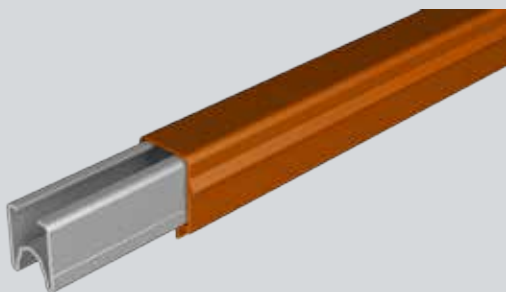




INSULATED CONDUCTOR SYSTEM

U25/75F

U25/100F



COST EFFECTIVE AND RELIABLE U25 GALVANIZED CONDUCTOR BAR SOLUTION!

U25/ 75 F | U25/ 100 F

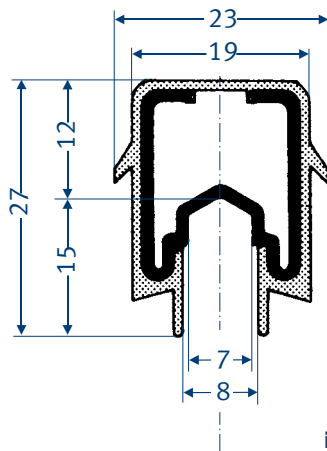
- Utilizes proven U25 design
- Cost-effective and durable
- Suitable for indoor and outdoor installations⁽²⁾
- 4 pole design ideal for crane electrification
- Available with two current ratings:
 - U25 / 75F: max. continuous current = 100A
 - U25 / 100F: max. continuous current = 140A



U25/75F



U25/100F



in mm

CONDUCTOR CODE:

- U = unipole insulated conductor
- 25 = shroud size
- 75/100 = conductor cross sectional area (mm²)
- F = conductor made of galvanized sheet steel

CONDUCTOR LENGTH

Supplied in 3 m (10 ft) standard lengths, 6m (20 ft) sections and cut

lengths available on request. Hi-Temp version on request.

SYSTEM LENGTH

Max. system length: 150 m (492 ft)

Support distance for straight runs: 1500 mm (5 ft)

PHASE DISTANCE - 4 POLES

- 50 mm - Compact Hanger KA25/4, other options by request.



⁽²⁾ Conductor rails made of galvanized sheet steel are only suitable for systems without corrosive influence (e.g. salty air, acid plants etc.)

TECHNICAL DATA & ORDER NO.

Conductor Rail Type	Cross sectional area mm ²	Leakage distance of covers mm	max. voltage V	max. Amp. capacity A at 35 °C	Resistance Ohm/1000 m	Impedance Ohm/1000 m ^(*) 50 mm
U25/ 75 F	75	53	1000	100	1,968	1,972
U25/100 F	100	53	1000	140	1,364	1,369

^(*) With frequency of 50 Hz and 20 °C

ELECTRICAL DATA

Type	Dielectric strength according to DIN 53481	Special dielectric strength according to IEC 60093	Special surface resistance according to IEC 60093	Creepage distance according EN 60112 / VDE 0303
standard shroud, color orange	> 25 kV/mm	> 1 x 10 ¹⁶ Ohm/cm	2,1 x 10 ¹⁵ Ohm	CTI > 400
heat resistant shroud, color grey	> 25 kV/mm	> 1 x 10 ¹⁴ Ohm/cm	2 x 10 ¹⁵ Ohm	CTI > 400

MECHANICAL DATA

Type	Flexible strength according to ISO 178	Tensile strength according to ISO 527	Ambient temperature	Flame test proof per DIN 4102 part 1
Standard shroud PH - color orange PE - color green	74-85 N/mm ²	44-55 N/mm ²	- 30 °C to + 55 °C - 22 °F to + 131 °F	class B1 no flaming particles, self-extinguishing
Heat resistant shroud PH & PE - color grey	90-100 N/mm ²	47-65 N/mm ²	- 30 °C to + 85 °C - 22 °F to + 185 °F	class B1 no flaming particles, self-extinguishing

PHASE (STANDARD)

Type	Weight kg/m	Order No. Phase ⁽¹⁾
U25/75F	0.620	171 003
U25/100F	0.890	171 013

PE (STANDARD)

Type	Weight kg/m	Order No. Ground ⁽¹⁾
U25/75F	0.620	171 103
U25/100F	0.890	171 113

PHASE (HI-TEMP)

Type	Weight kg/m	Order No. Phase ⁽¹⁾
U25/75F	0.620	171 05 •
U25/100F	0.890	171 06 •

PE (HI-TEMP)

Type	Weight kg/m	Order No. Ground ⁽¹⁾
U25/75F	0.620	171 15 •
U25/100F	0.890	171 16 •

SYSTEM COMPONENTS⁽²⁾

Type	Description	Weight kg	Order No.
KA 25/4	Compact hanger - 4 pole	0,122	170 840
UV 25	Joint splice	0,190	170 595
UK 25-L	End cap	0,005	170 013
USK 25-K4	Locating clamp	0,026	170 010
UE 25-L-B	Feed terminal	0,190	170 599
KSTL 55 PH	Collector KSTL 55 Phase with 2 m connecting cable	0,368	154 443.2
KSTL 55 PE	Collector KSTL 55 Ground with 2 m connecting cable	0,368	154 444.2
UM 12	Collector Bracket UM 12	0,691	153 506
MZ-KF-A-100	Contact Grease for joints and feeds, 100 ml for approx. 200 joints	0,112	121 502

⁽¹⁾ The last digit of the part number indicates the length. Please add 1, 2 ... 6 for your required short length. Interim values have to be rounded up.

⁽²⁾ For additional details on components - See standard U25 Catalog.



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