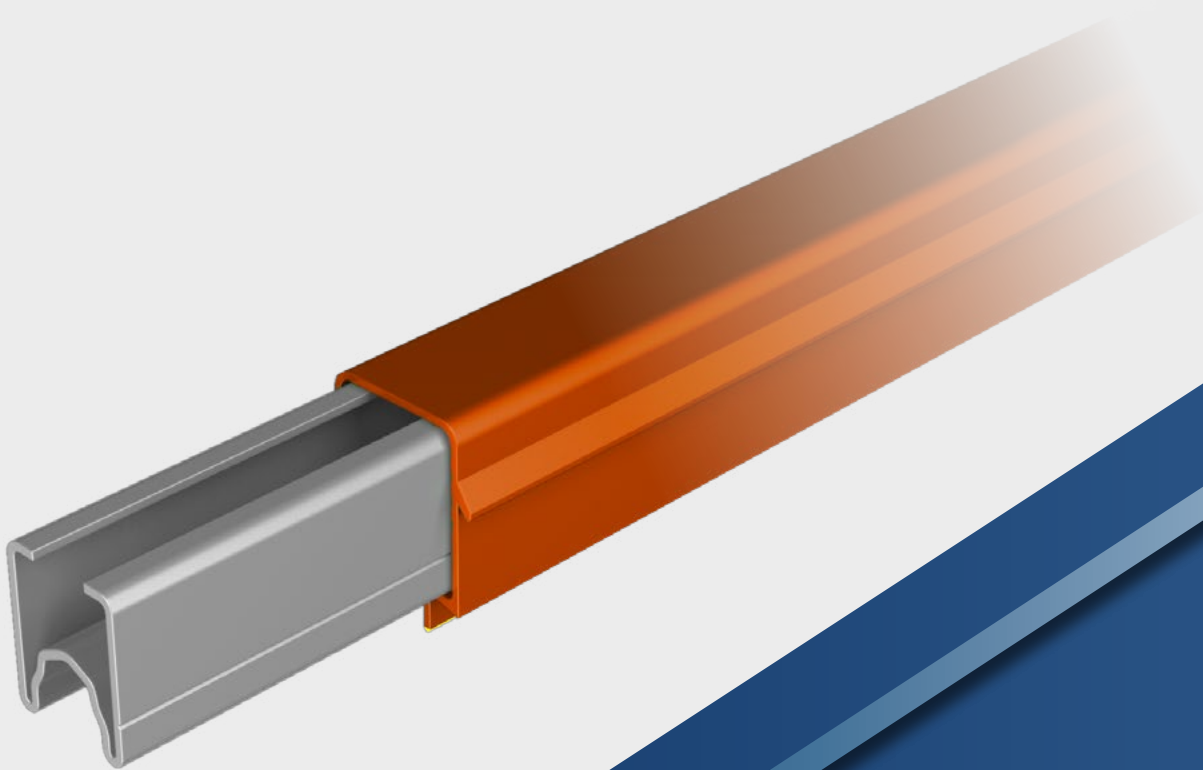




**INSULATED CONDUCTOR SYSTEMS**  
**U 25F**





# U 25/75 F | U25/100 F

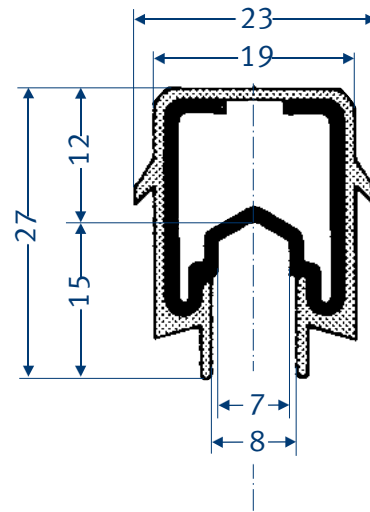
## KEY HIGHLIGHTS

Utilizes proven U 25 design  
 Cost efficient & durable  
 Suitable for indoor and outdoor installations<sup>(1)</sup>  
 4 pole design ideal for crane electrification

Available with two current ratings:

U25 / 75 F: max. continuous current = 100A

U25 / 100 F: max. continuous current = 140A

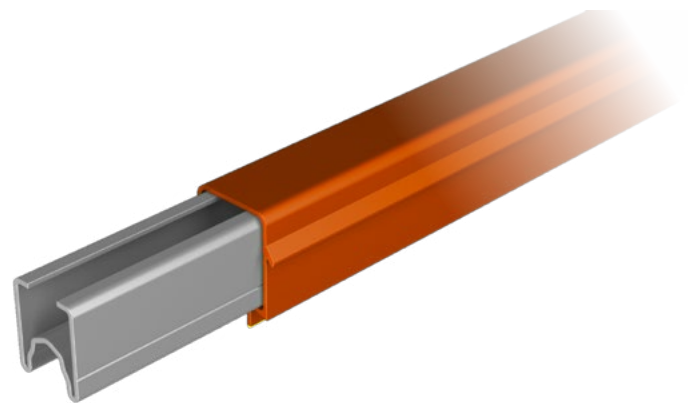


### CONDUCTOR CODE:

U = unipole insulated conductor  
 25 = shroud size  
 75/100 = conductor cross sectional area (mm<sup>2</sup>)  
 F = conductor made of galvanized sheet steel

### CONDUCTOR LENGTH

Supplied in 3 m (10 ft) standard lengths, 6 m (20 ft) sections and cut lengths available on request. Hi-Temp version on request.



**U 25/75F**

### SYSTEM LENGTH

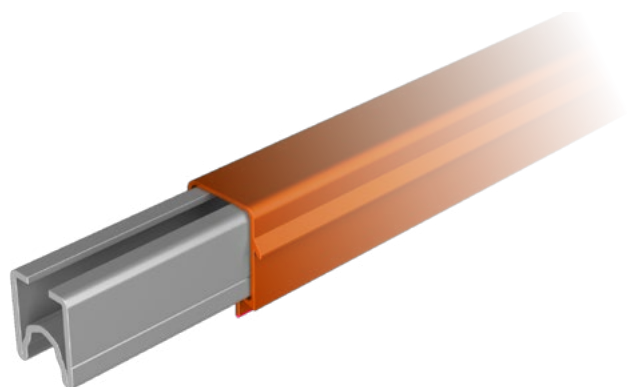
Max. system length: 150 m (492 ft)  
 Support distance for straight runs: 1500 mm (5 ft)

### ADDITIONAL DETAILS

Conductor Spacing: 50mm (4 pole - Compact Hanger KA25/4)

Joints: Bolted.

Feed: Bolted, Max. connecting cable: 2x16mm<sup>2</sup>, supplied by others.



**U 25/100F**

<sup>(1)</sup> Conductor rails made of galvanized sheet steel are only suitable for systems without corrosive influence (e.g. salty air, acid plants etc.)

## TECHNICAL DATA

Conductor Rail Type	Cross sectional area mm <sup>2</sup>	Leakage distance (mm)	Max. voltage V	Max. Amp. capacity A at 35 °C	Resistance Ohm/1000 m	Impedance Ohm/1000 m <sup>(*)</sup> 50 mm
U 25/ 75 F	75	53	1000	100	1.968	1.972
U 25/100 F	100	53	1000	140	1.364	1.369

## 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 to EN 60112 / VDE 0303
Standard shroud, color orange	> 25 kV/mm	> 1 x 10 <sup>16</sup> Ohm/cm	2.1 x 10 <sup>15</sup> Ohm	CTI > 400
Heat resistant shroud, color grey	> 25 kV/mm	> 1 x 10 <sup>14</sup> Ohm/cm	2 x 10 <sup>15</sup> 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 <sup>2</sup>	44-55 N/mm <sup>2</sup>	- 22 °F to + 131 °F	Class b1 No flaming particles, Self-extinguishing
Heat resistant shroud PH & PE - color grey	90-100 N/mm <sup>2</sup>	47-65 N/mm <sup>2</sup>	- 22 °F to + 185 °F	Class b1 No flaming particles, Self-extinguishing

# ORDER NUMBERS

## PHASE (STANDARD)

Type	Weight lb/m	Order No. Phase <sup>(1)</sup>
U 25/75F	1.4	171 773
U 25/100F	2.0	171 013

## PE (STANDARD)

Type	Weight lb/m	Order No. Ground <sup>(1)</sup>
U 25/75F	1.4	171 103
U 25/100F	2.0	171 113

## PHASE (HI-TEMP)

Type	Weight lb/m	Order No. Phase <sup>(1)</sup>
U 25/75F	1.4	171 05•
U 25/100F	2.0	171 06•

## PE (HI-TEMP)

Type	Weight lb/m	Order No. Ground <sup>(1)</sup>
U 25/75F	1.4	171 15•
U 25/100F	2.0	171 16•

Type	Description	Weight lb	Order No.
KA 25/4	Compact hanger - 4 pole	0.26	170 840
UV 25	Bolted Joint splice	0.41	170 595
UK 25-L	End cap	0.01	170 013
USK 25-K4	Locating clamp	0.05	170 010
UE 25-LB	Feed terminal. Allows max.connecting cable 2x16mm <sup>2</sup>	0.41	170 599
KSTL 55 PH	Collector KSTL 55 Phase with 2 m connecting cable	0.81	154 443.2
KSTL 55 PE	Collector KSTL 55 Ground with 2 m connecting cable	0.81	154 444.2
UM 12	Collector Bracket UM 12	1.52	153 506
MZ-KF-A-100	Contact Grease for joints and feeds, 100 ml for approx. 200 joints	0.24	121 502

<sup>(1)</sup> 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.

<sup>(2)</sup> For additional details on components - See standard U25 Catalog.



# NOTES

A large grid of small dots for taking notes, covering most of the page. The dots are arranged in a regular pattern, forming a grid that is approximately 30 columns wide and 60 rows high.

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