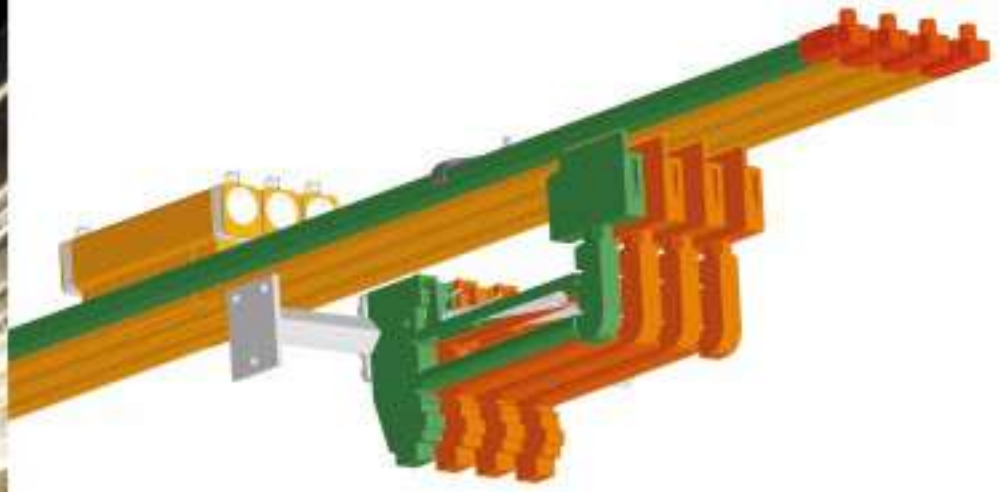


SAFELEC

INSULATED CONDUCTOR BARS
60 up to 800 Amp



- Finger safe up to IP2
- 60 to 800 Amp conductors in Standard or Medium Heat cover
- Cover shaped to shed water and dust
- Horizontal conductors with contact from underside
- Bar length: 4.5 metres
- Systems up to 150 metres without expansion sections
- Reduced and simple maintenance

CONDUCTIX
INSUL 8

© DELACHAUX GROUP



Certificate No. RM 21334

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SAFELEC INSULATED CONDUCTOR BARS

CONDUCTIX supplies electrical power feed systems for moving machinery. Easy to install and maintain, the **SAFELEC** range ensures a high level of reliability. It has been designed to meet the safety standards demanded in industry.

Advantages of conductor bars:

- Ability to feed several moving machines from the same conductor system
 - Suitable for high amperage
- Feed points can be placed at any location
 - Compactness
- Long system length possible
- Suitable for both indoor and outdoor use

SAFELEC features:

- Easy installation, reduced and simple maintenance
 - Protection degree IP2, finger safe
- Insulating covers shaped to shed water and dust
 - Standard PVC cover for normal temperatures
- Medium Heat cover available for high ambient temperatures
- Expansion sections not required for runs less than 150 m
 - Max travel speed: 200 m/min

Range of application:

Workshop cranes, iron and steel industry, railways, leisure industry, mines etc.

SAFELEC complies with the following international standards:

NFC 20-010, NFC 63-010, NFC 32-070, VDE 0470, BSEN 60529, DIN 53438

TYPICAL APPLICATIONS



Conveyor System



Roller Coaster



Multipole Feed System



Water Treatment Works



Bridge Construction Crane

SELECTION OF CONDUCTORS

Volt drop calculation ΔU :

3-Phase AC $\Delta U = \sqrt{3} \times I \times D \times Z$

Single Phase AC $\Delta U = 2 \times I \times D \times Z$

Continuous current DC $\Delta U = 2 \times I \times D \times R$

$$\Delta U\% = (\Delta U \times 100) / U_n$$

Where:

ΔU : volt drop in Volts

$\Delta U\%$: volt drop in % of nominal voltage

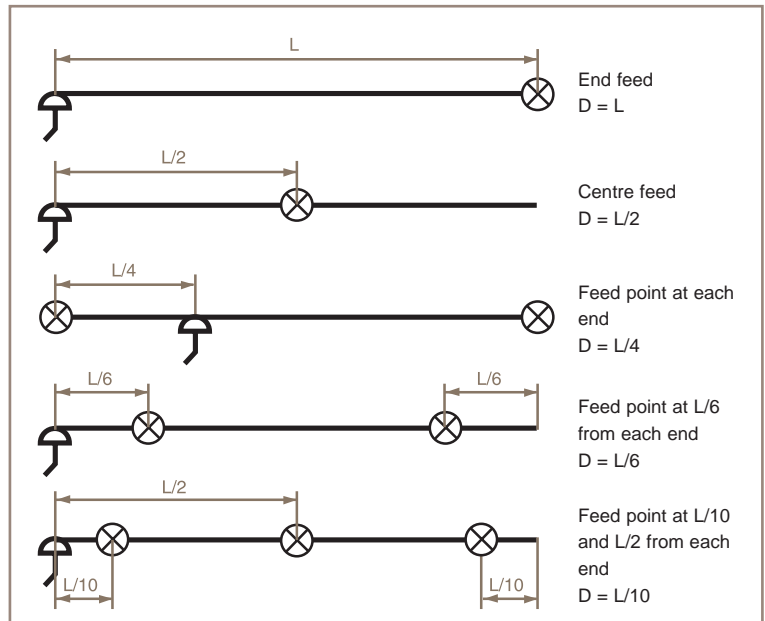
U_n : nominal supply voltage in Volts

I : maximum current in Amps

D : see opposite diagram

R : resistance in Ohms per metre

Z : impedance in Ohms per metre



TECHNICAL DATA

| | | FACTOR "K" | | | | | |
|-------------------|------|------------|-------|-------|-------|-------|-------|
| | | Duty | 100% | 80% | 60% | 40% | 20% |
| Ta | | | | | | | |
| Standard cover | 25°C | | 1.000 | 1.118 | 1.291 | 1.581 | 2.236 |
| | 35°C | | 0.905 | 1.011 | 1.168 | 1.430 | 2.023 |
| | 45°C | | 0.798 | 0.892 | 1.030 | 1.261 | 1.784 |
| | 55°C | | 0.674 | 0.754 | 0.870 | 1.066 | 1.508 |
| Medium Heat cover | 65°C | | 0.775 | 0.866 | 1.000 | 1.225 | 1.732 |
| | 75°C | | 0.707 | 0.791 | 0.913 | 1.118 | 1.581 |
| | 85°C | | 0.632 | 0.707 | 0.816 | 1.000 | 1.414 |

The maximum permissible continuous current rating of the conductor bar depends on the duty factor of the cranes and the maximum ambient temperature T_a . It can be established using the following formula:

$$I_{\text{allowable}} = \text{nominal current} \times K$$

SAFELEC 2 TECHNICAL DATA

| CONDUCTOR BAR COVER | STANDARD | MEDIUM HEAT |
|---------------------------------|----------------------------|----------------------------|
| Material | PVC | BAYBLEND |
| Dielectric strength | 180 KV/cm | 240 KV/cm |
| Surface resistivity | $10^{11}\Omega$ | $>10^{14}\Omega$ |
| Volume resistivity | $>10^{15}\Omega/\text{cm}$ | $>10^{16}\Omega/\text{cm}$ |
| Maximum operating temperature * | 80°C | 120°C |
| Minimum operating temperature | -20°C | -20°C |
| Flame-test | Self extinguishing | Self extinguishing |
| Oxygen index | 54% | 24% |
| Specific density | 1.5 g/cm ³ | 1.15 g/cm ³ |

* See Table on Page 4

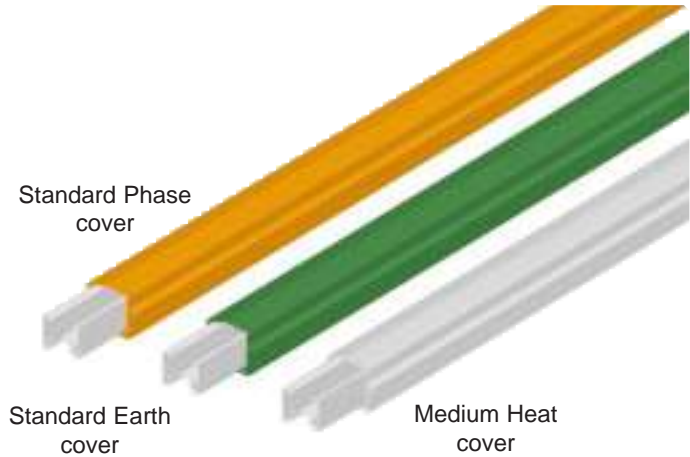
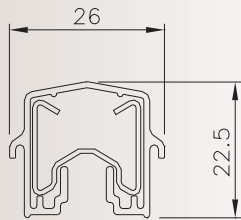
| CONDUCTOR BAR | GALVANISED STEEL | | | COPPER | | | ALUMINIUM / STAINLESS STEEL | | |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------------------|--------------------|--------------------|
| | 60A | 100A | 125A | 160A | 250A | 400A | 200A | 315A | 400A |
| Nominal current | 60A | 100A | 125A | 160A | 250A | 400A | 200A | 315A | 400A |
| Cross sectional area | 50mm ² | 63mm ² | 93mm ² | 50mm ² | 63mm ² | 93mm ² | 104mm ² | 120mm ² | 156mm ² |
| Maximum system voltage (AC) (contact Insul-8 for other voltages) (DC) (contact Insul-8 for other voltages) | 1000V | 1000V | 1000V | 1000V | 1000V | 1000V | 1000V | 1000V | 1000V |
| Resistance R (for DC) at 20°C (Ω/m) | 0.003584 | 0.002867 | 0.001933 | 0.000342 | 0.000274 | 0.000184 | 0.000301 | 0.000261 | 0.000199 |
| Impedance Z (for AC) at 20°C (Ω/m) | 0.003604 | 0.002891 | 0.001968 | 0.000364 | 0.000300 | 0.000221 | 0.000325 | 0.000288 | 0.000234 |
| Maximum allowable ambient temperature for 100% duty cycle | 25°C | 25°C | 25°C | 25°C | 25°C | 25°C | 25°C | 25°C | 25°C |
| Bar length | 4.5m | 4.5m | 4.5m | 4.5m | 4.5m | 4.5m | 4.5m | 4.5m | 4.5m |
| Support pitch | Standard | 1500mm | 1500mm | 1500mm | 1500mm | 1500mm | 1500mm | 1500mm | 1500mm |
| | Lateral | 1125mm | 1125mm | 1125mm | 1125mm | 1125mm | 1125mm | 1125mm | 1125mm |
| Minimum pitch centres | Standard | 43mm | 43mm | 43mm | 43mm | 43mm | 43mm | 43mm | 43mm |
| | Lateral | 60mm | 60mm | 60mm | 60mm | 60mm | 60mm | 60mm | 60mm |
| Expansion sections: not required for runs less than | 150m | 150m | 150m | 150m | 150m | 150m | 150m | 150m | 150m |
| Minimum bending radius: (horizontal only) | 1.5m | 1.5m | 1.5m | 1.5m | 1.5m | 1.5m | 1.5m | 1.5m | 1.5m |

An accurate choice of conductors can be made when all the following information is known:

- The type of current: single or three phase AC ; continuous (DC)
- The maximum current power and duty cycle
- The allowable volt drop for the machines being supplied
- The ambient temperature
- Environment (dusty, coastal, humid, acidic etc.)

GALVANISED STEEL CONDUCTOR BARS

| CURRENT RATING | 60A | 100A | 125A |
|--------------------------------------|------------------|------------------|------------------|
| Standard Phase cover (orange) | 310001 | 310101 | 310201 |
| Standard Earth cover (green) | 310002 | 310102 | 310202 |
| Medium Heat cover Phase (grey) Earth | 310003 310056 | 310103 310156 | 310203 310256 |
| Weight (Kg) | 2.34 | 2.76 | 3.76 |



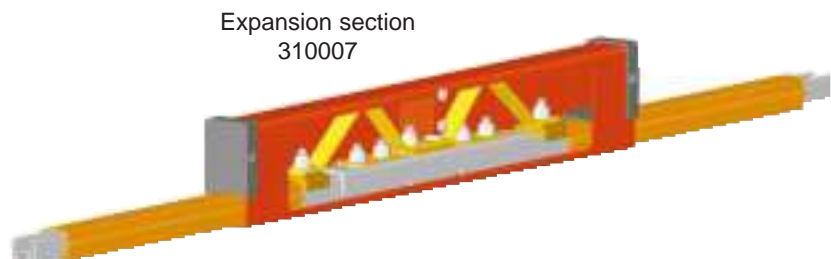
EXPANSION SECTIONS

| CURRENT RATING | 60A | 100A | 125A |
|--------------------------------------|------------------|------------------|------------------|
| Standard Phase cover (orange) | 310007 | 310107 | 310207 |
| Standard Earth cover (green) | 310008 | 310108 | 310208 |
| Medium Heat cover Phase (grey) Earth | 310009 310058 | 310109 310158 | 310209 310258 |
| Weight (Kg) | 3.06 | 3.32 | 4.20 |

Expansion sections are required on all systems over 150m long.

The maximum gap of the expansion section is 50mm.

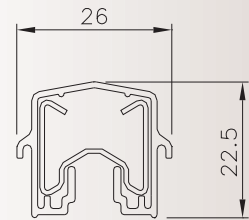
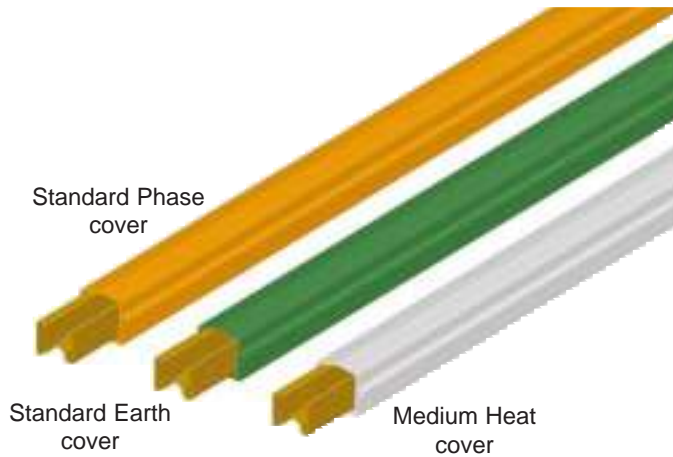
The expansion section is 4.5m long and is installed in place of one length of conductor bar.



Expansion section
310007

COPPER CONDUCTOR BARS

| CURRENT RATING | 160A | 250A | 400A |
|--------------------------------------|------------------|------------------|------------------|
| Standard Phase cover (orange) | 310301 | 310401 | 310501 |
| Standard Earth cover (green) | 310302 | 310402 | 310502 |
| Medium Heat cover Phase (grey) Earth | 310303 310356 | 310403 310456 | 310503 310556 |
| Weight (Kg) | 2.76 | 3.04 | 4.40 |



EXPANSION SECTIONS

| CURRENT RATING | 160A | 250A | 400A |
|--------------------------------------|------------------|------------------|------------------|
| Standard Phase cover (orange) | 310307 | 310407 | 310507 |
| Standard Earth cover (green) | 310308 | 310408 | 310508 |
| Medium Heat cover Phase (grey) Earth | 310309 310358 | 310409 310458 | 310509 310558 |
| Weight (Kg) | 3.28 | 3.86 | 4.74 |

Expansion section 310307



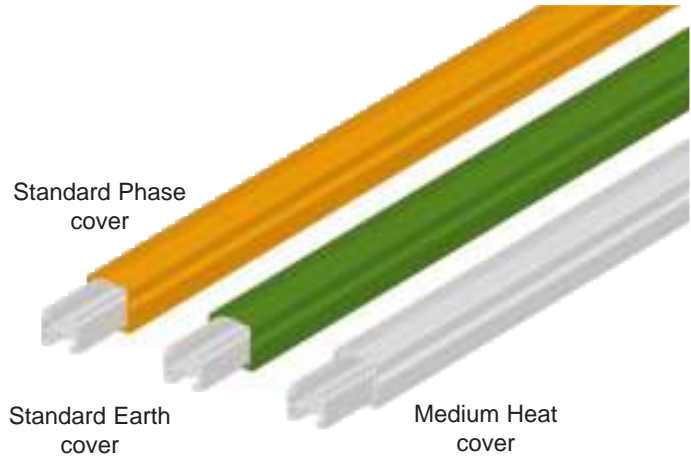
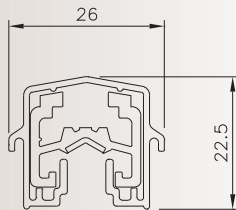
Expansion sections are required on all systems over 150m long.

The maximum gap of the expansion section is 50mm.

The expansion section is 4.5m long and is installed in place of one length of conductor bar.

ALUMINIUM / STAINLESS STEEL CONDUCTOR BARS

| CURRENT RATING | 200A | 315A | 400A |
|--------------------------------------|------------------|------------------|------------------|
| Standard Phase cover (orange) | 310601 | 310701 | 399101 |
| Standard Earth cover (green) | 310602 | 310702 | 399102 |
| Medium Heat cover Phase Earth (grey) | 310603 310656 | 310703 310756 | 399103 399156 |
| Weight (Kg) | 2.12 | 2.18 | 2.50 |



EXPANSION SECTIONS

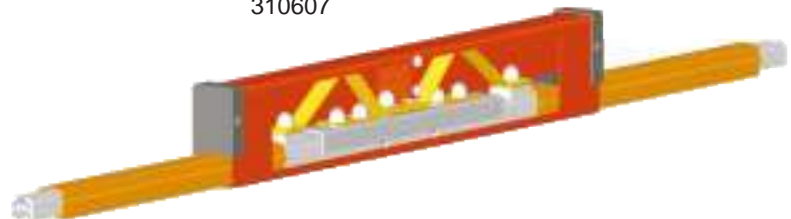
| CURRENT RATING | 200A | 315A | 400A |
|--------------------------------------|------------------|------------------|------------------|
| Standard Phase cover (orange) | 310607 | 310707 | 399107 |
| Standard Earth cover (green) | 310608 | 310708 | 399108 |
| Medium Heat cover Phase Earth (grey) | 310609 310658 | 310709 310758 | 399109 399158 |
| Weight (Kg) | 3.23 | 3.43 | 3.80 |

Expansion sections are required on all systems over 150m long.

The maximum gap of the expansion section is 50mm.

The expansion section is 4.5m long and is installed in place of one length of conductor bar.

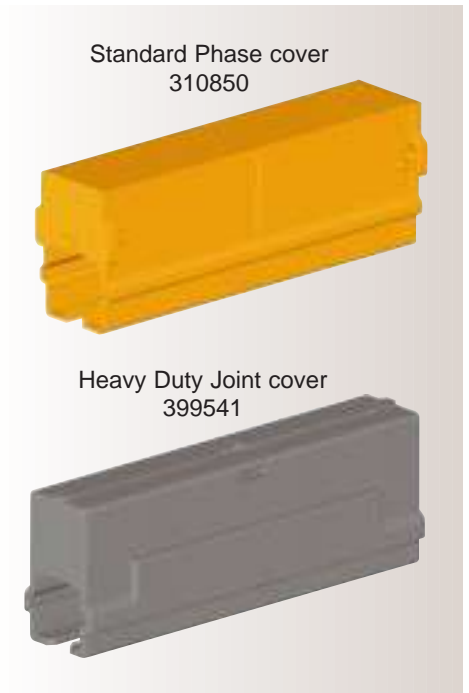
Expansion section 310607



JOINTS

| JOINT | | Weight (Kg) |
|-------------------|--------|-------------|
| Steel | 310872 | 0.049 |
| Copper | 310873 | 0.044 |
| Aluminium | 310874 | 0.032 |
| Heavy Duty Copper | 399549 | 0.2 |

| JOINT COVER | | |
|-------------------------------|-------|--------|
| Standard Phase cover (orange) | | 310850 |
| Standard Earth cover (green) | | 310851 |
| Heavy Duty cover | | 399541 |
| Medium Heat cover | black | 310855 |
| | green | 310856 |
| Weight (Kg) | | 0.027 |

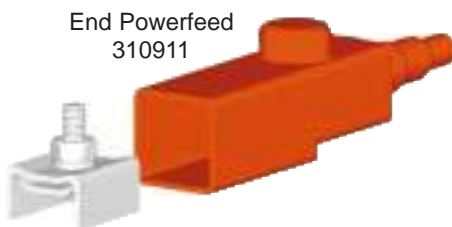


| JOINTING COMPOUND | Weight (Kg) |
|-------------------|-------------|
| 310932 | 0.225 |

JOINTING COMPOUND

Jointing compound should be applied to the contact surfaces of the joint and bar at every joint on copper and aluminium systems. One tube is sufficient for over 300 connections.

POWERFEEDS: END POWERFEED



| UP TO 100A | Weight (Kg) |
|------------|-------------|
| 310911 | 0.037 |

Powerfeed installed in place of an end cover.

Maximum cable connection size: 16mm²

POWERFEEDS: JOINT POWERFEED

| CURRENT RATING | UP TO 60A | UP TO 250A | UP TO 400A |
|-------------------------|-----------|------------|------------|
| Standard cover (orange) | 310034 | 310910 | 310912 |
| Medium Heat cover (red) | 310066 | 310913 | 310915 |
| Weight (Kg) | 0.028 | 0.25 | 0.30 |

Powerfeed for connection of one or two flexible cables.

310910 has single cable connection.

310912 has double cable connection.

Powerfeed is usually installed in place of a joint.

Maximum cable connection size:

60A – 10mm²

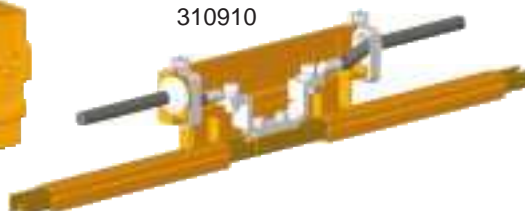
250A – 95mm²

400A – 150mm²

60A Joint Powerfeed 310034



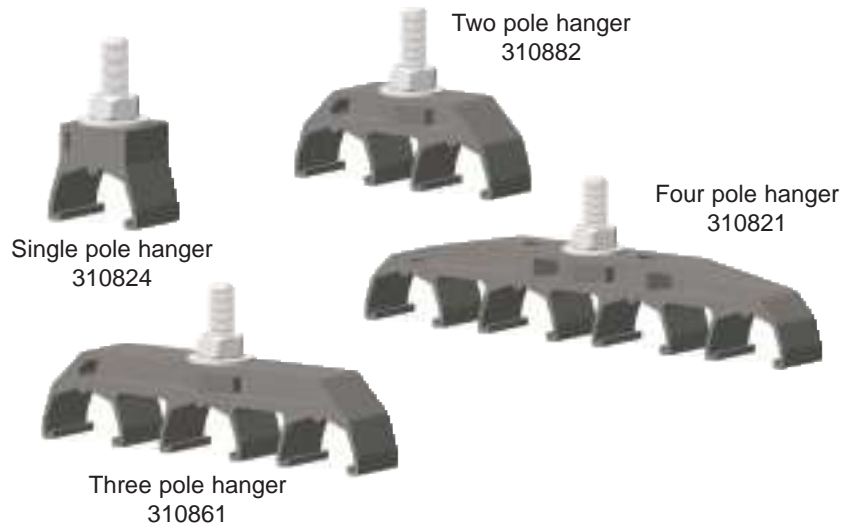
250A Joint Powerfeed 310910



HANGER CLAMPS: STANDARD MOUNT

| | STANDARD (BLACK) | POLYCARBONATE (RED) | WEIGHT (Kg) |
|--|------------------|---------------------|-------------|
| Single pole | 310824 | 310829 | 0.03 |
| Single pole with stainless steel fasteners | 310919 | | 0.03 |
| Two pole | 310882 | 310899 | 0.04 |
| Three pole | 310861 | 310871 | 0.05 |
| Four pole | 310821 | 310857 | 0.057 |

Standard hangers are acetyl.
Maximum support spacing is 1.5m.

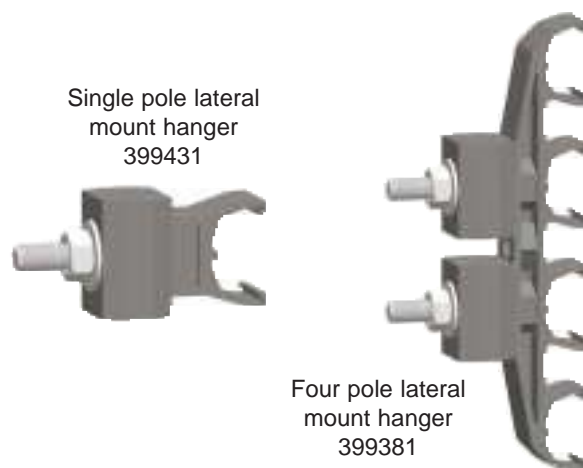


HANGER CLAMPS: LATERAL MOUNT

| | STANDARD (BLACK) | POLYCARBONATE (RED) | WEIGHT (Kg) |
|----------------------------|------------------|---------------------|-------------|
| Single pole | 399431 | 399434 | 0.05 |
| Two pole | 399432 | 399435 | 0.06 |
| Three pole | 399433 | 399436 | 0.07 |
| Four pole | 399381 | 399382 | 0.12 |
| Four pole (without spacer) | 310835 | 310859 | 0.08 |

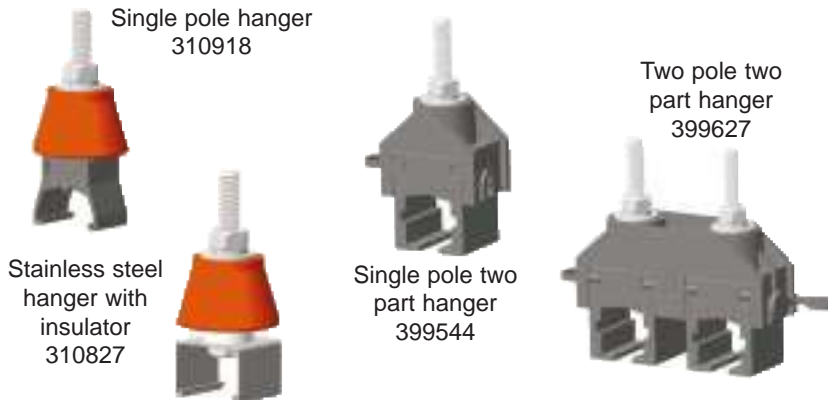
Lateral mount hangers are supplied with 20mm spacers to provide clearance for joint covers.

Maximum support spacing is 1.125m.



HANGER CLAMPS: WITH INSULATOR

| | | | WEIGHT (Kg) |
|-------------|-----------------|--------|----------------|
| Single pole | (Black) | 310918 | 0.10 |
| Single pole | (Red) | 310834 | 0.10 |
| Single pole | Stainless steel | 310827 | 0.106 |
| Single pole | Two part | 399544 | 0.08 |
| Two pole | Two part | 399627 | 0.174 |



In particularly dusty or humid environments, hangers with insulator should be used.

ANCHOR CLAMPS

| | | WEIGHT (Kg) |
|---|--------|----------------|
| Standard | 310832 | 0.06 |
| With stainless steel fasteners | 399667 | 0.06 |
| With insulator | 310969 | 0.12 |
| Lateral mount | 399383 | 0.10 |
| Without top bolt (two required per anchor point) | 310831 | 0.05 |

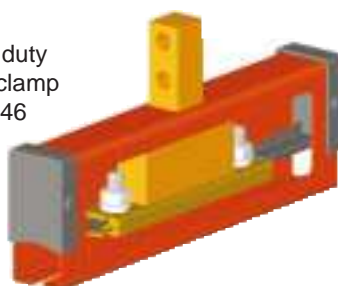


Anchor points are usually situated in the middle of a conductor system.

Additional anchor points are required for systems with expansion sections.

| | | WEIGHT (Kg) |
|-------------------|--------|----------------|
| Heavy duty anchor | 399546 | 0.48 |

Heavy duty anchor clamp 399546



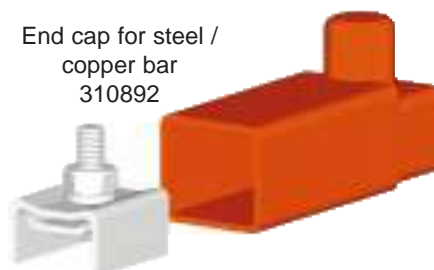
END CAPS

| | | WEIGHT (Kg) |
|--------------------|--------|-------------|
| Steel / copper bar | 310892 | 0.04 |
| Aluminium bar | 310893 | 0.02 |
| Transfer cap | 310951 | 0.10 |

Transfer caps are suitable for air gaps up to 10mm.

Vertical tolerance ± 5 mm

Horizontal tolerance ± 2 mm

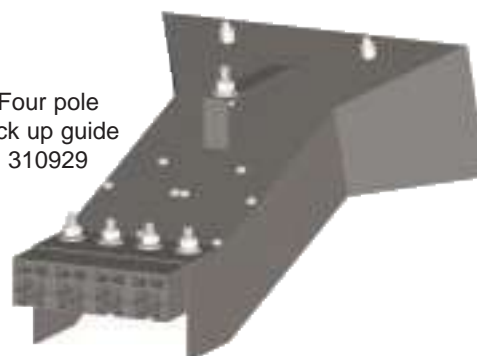


PICK UP GUIDES

| | | WEIGHT (Kg) |
|-------------|--------|-------------|
| Single pole | 310920 | 1.27 |
| Two pole | 399532 | 1.72 |
| Three pole | 399502 | 2.16 |
| Four pole | 310929 | 2.54 |

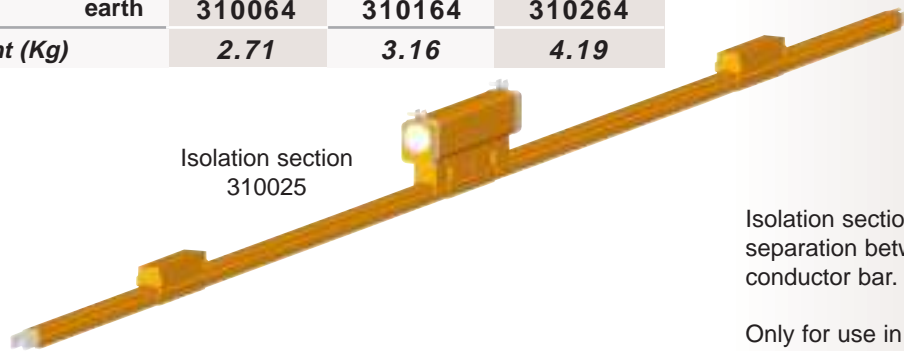
Special collectors are required for systems where pick up guides are fitted.

Four pole pick up guide 310929



GALVANISED STEEL BAR

| CURRENT RATING | 60A | 100A | 125A |
|--------------------------------------|------------------|------------------|------------------|
| Standard Phase cover (orange) | 310025 | 310125 | 310225 |
| Standard Earth cover (green) | 310026 | 310126 | 310226 |
| Medium Heat cover phase (grey) earth | 310027 310064 | 310127 310164 | 310227 310264 |
| Weight (Kg) | 2.71 | 3.16 | 4.19 |



Isolation section
310025

Isolation sections provide electrical separation between adjacent sections of conductor bar.

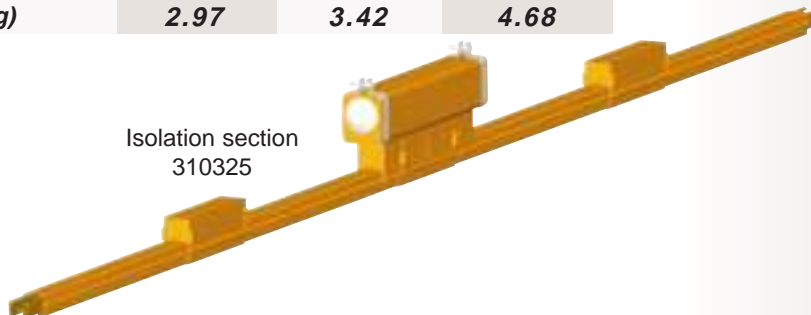
Only for use in dry, clean conditions.

The Isolation section is 4.5m long and is installed in place of one length of conductor bar.

It is recommended that Isolation sections are not fitted in earth conductors.

COPPER BAR

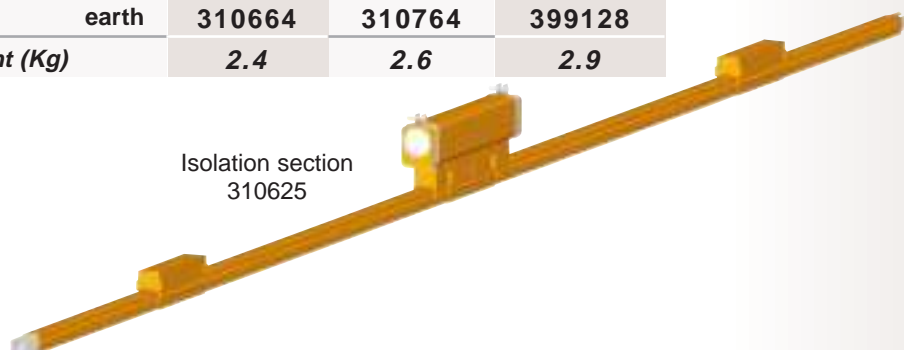
| CURRENT RATING | 160A | 250A | 400A |
|--------------------------------------|------------------|------------------|------------------|
| Standard Phase cover (orange) | 310325 | 310425 | 310525 |
| Standard Earth cover (green) | 310326 | 310426 | 310526 |
| Medium Heat cover phase (grey) earth | 310327 310364 | 310427 310464 | 310527 310564 |
| Weight (Kg) | 2.97 | 3.42 | 4.68 |



Isolation section
310325

ALUMINIUM / STAINLESS STEEL BAR

| CURRENT RATING | 200A | 315A | 400A |
|--------------------------------------|------------------|------------------|------------------|
| Standard Phase cover (orange) | 310625 | 310725 | 399125 |
| Standard Earth cover (green) | 310626 | 310726 | 399126 |
| Medium Heat cover phase (grey) earth | 310627 310664 | 310727 310764 | 399127 399128 |
| Weight (Kg) | 2.4 | 2.6 | 2.9 |



Isolation section
310625

COLLECTORS

| CURRENT RATING | 50A | 100A | 250A |
|-------------------------------------|--------|--------|-------|
| Phase | 399360 | 310990 | 34956 |
| Phase with stainless steel fastener | | 399675 | |
| Earth - without deflector | 399380 | 399355 | |
| Earth - right hand | 399373 | 399340 | |
| Earth - left hand | 399372 | 399352 | |
| Weight (Kg) | 0.38 | 0.8 | 2.00 |

50A and 100A collectors are supplied without cable.

Stranded cable terminal clamps are included.

250A collectors are supplied with 2 x 1m 35mm² cable.

250A collectors only suitable for use on 400A bar



COLLECTOR SHOE + HOLDER

| CURRENT RATING | 50A + 100A Phase - red | 50A + 100A Earth - green | 250A |
|----------------|---------------------------|-----------------------------|-------|
| Code | 310993 | 399357 | 35289 |
| Weight (Kg) | 0.06 | 0.06 | 0.28 |

The copper graphite shoe ensures electrical continuity, a smooth contact with the conductor bar and a good resistance to wear.



COLLECTOR BRACKET

| | 13mm SQUARE | Weight (Kg) | 25mm SQUARE | Weight (Kg) |
|--------|---------------|-------------|---------------|-------------|
| Single | 310994 | 0.36 | 310991 | 0.88 |
| Double | 310898 | 0.74 | 310992 | 1.84 |



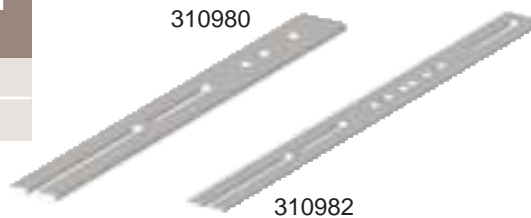
13mm square, 200mm long for use with 50A collector.



25mm square, 400mm long for use with 100A and 250A collectors.

BRACKETS: SINGLE SIDED BRACKET

| | WEIGHT (Kg) |
|---------------|-------------|
| 310980 | 0.66 |
| 310982 | 0.86 |



310980 - to suit beam flange 80-155mm.

310982 - to suit beam flange 155-305mm.

BRACKETS: DOUBLE SIDED BRACKET

| | WEIGHT (Kg) |
|---------------|-------------|
| 310981 | 0.84 |
| 310983 | 1.08 |



310981 - to suit beam flange 80-185mm.

310983 - to suit beam flange 185-305mm.

BRACKETS: WEB BRACKET

| | WEIGHT (Kg) |
|---------------|-------------|
| 310984 | 0.62 |



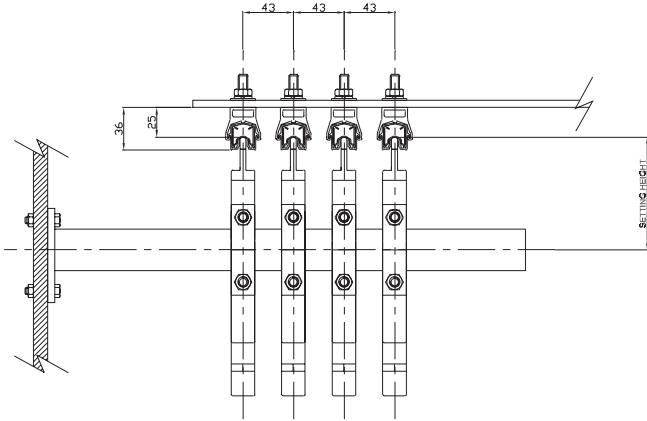
BRACKETS: GIRDER CLAMP

| | WEIGHT (Kg) |
|---------------|-------------|
| 310985 | 0.08 |



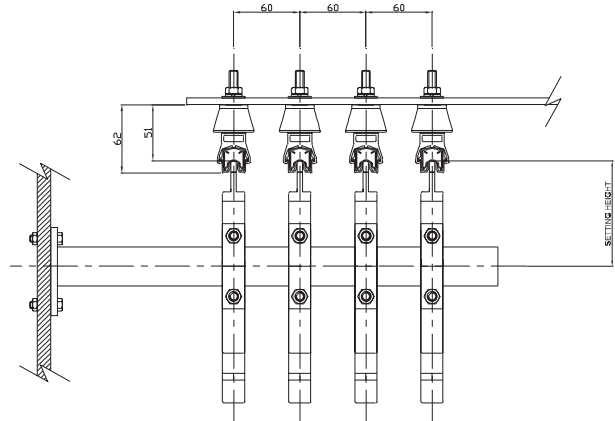
SYSTEM DIMENSIONS

STANDARD HANGER CLAMPS



SETTING HEIGHT - SEE RELEVANT COLLECTOR DRAWING FOR DIMENSION

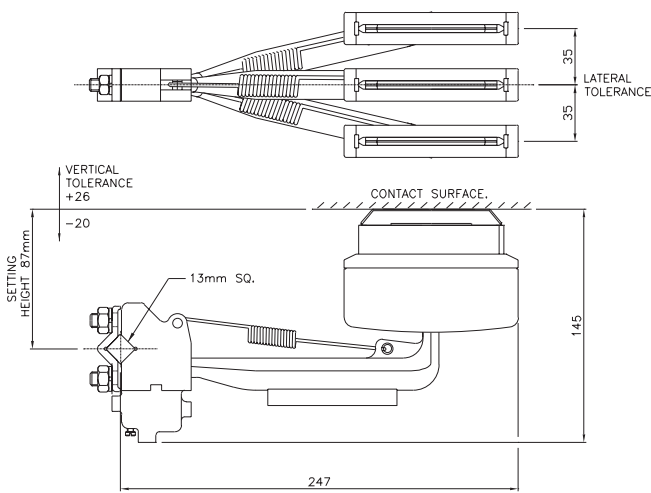
HANGER CLAMPS WITH INSULATOR



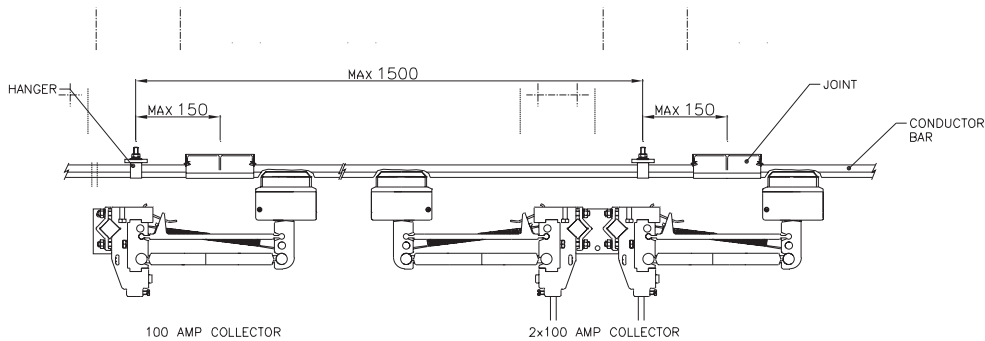
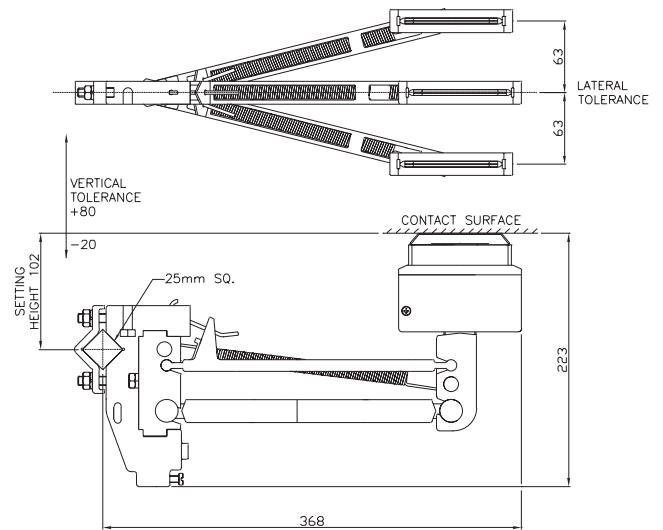
SETTING HEIGHT - SEE RELEVANT COLLECTOR DRAWING FOR DIMENSION

COLLECTOR SETTING DETAILS

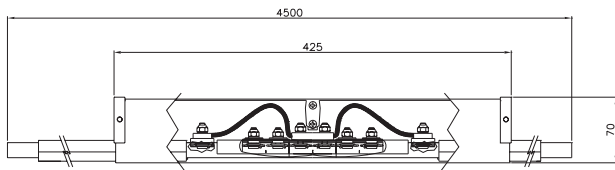
50A COLLECTOR (399360)



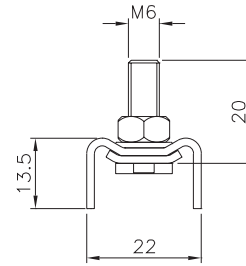
100A COLLECTOR (310990)



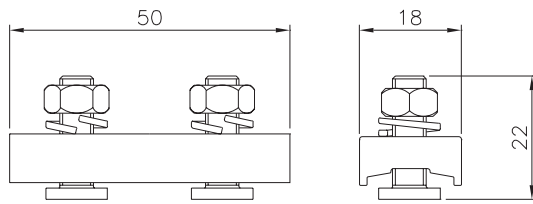
COMPONENT DIMENSIONS



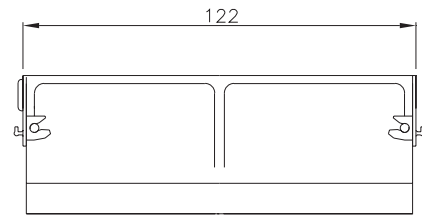
**60A EXPANSION SECTION - Standard Phase Cover
(310007)**



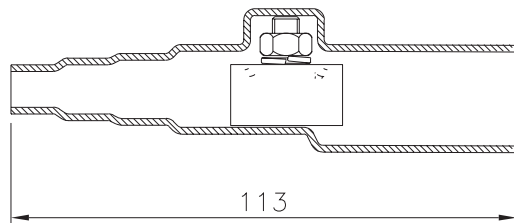
**STEEL JOINT
(310872)**



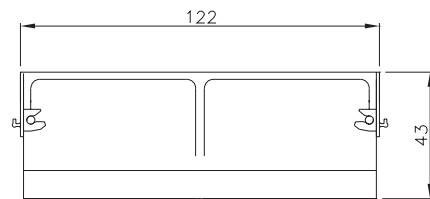
**ALUMINIUM JOINT
(310874)**



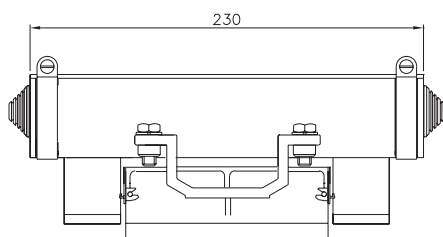
**STANDARD PHASE COVER
(310850)**



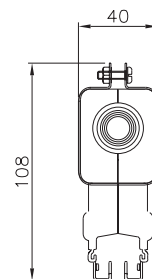
**END POWERFEED
(310911)**



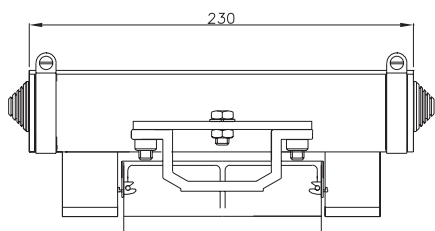
**60A JOINT POWERFEED
(310034)**



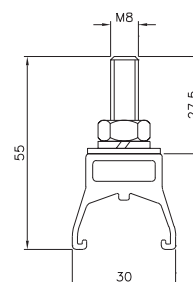
**250A JOINT POWERFEED
(310910)**



**250A JOINT
POWERFEED
(310910)**

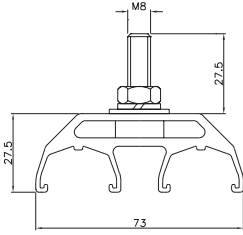


**400A JOINT POWERFEED
(310912)**

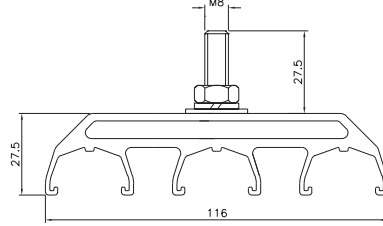


**SINGLE POLE
HANGER CLAMP
Standard Mount
(310824)**

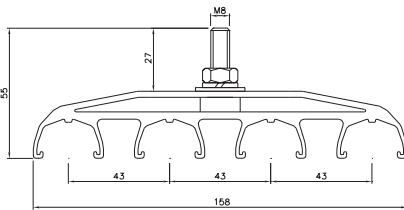
COMPONENT DIMENSIONS (Continued)



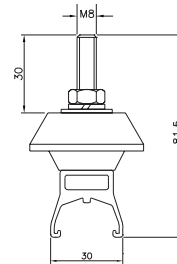
**TWO POLE
HANGER CLAMP
Standard Mount
(310882)**



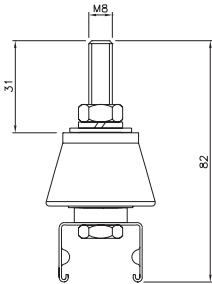
**THREE POLE
HANGER CLAMP
Standard Mount
(310861)**



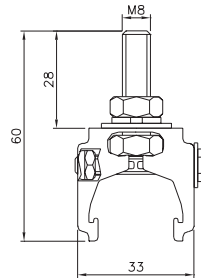
**FOUR POLE
HANGER CLAMP
Standard Mount
(310821)**



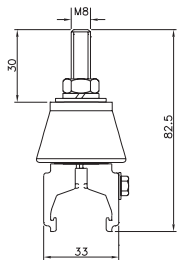
**SINGLE POLE
HANGER CLAMP
with Insulator
(310918)**



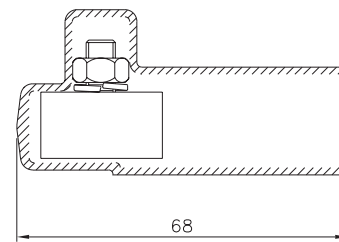
**STAINLESS STEEL
HANGER CLAMP
with Insulator
(310827)**



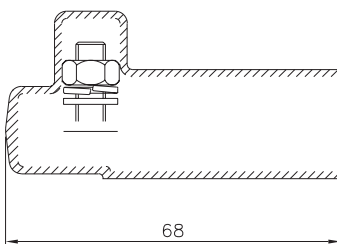
**ANCHOR CLAMP
(310832)**



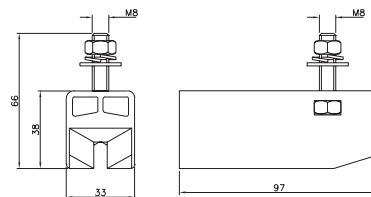
**ANCHOR CLAMP
With Insulator
(310969)**



**END CAP
for Steel / Copper Bar
(310892)**

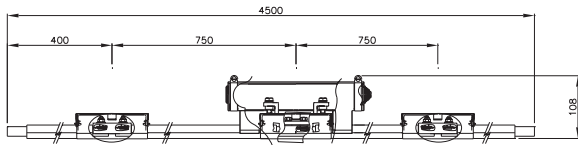


**END CAP
for Aluminium Bar
(310893)**

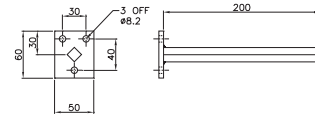


**TRANSFER END CAP
(310951)**

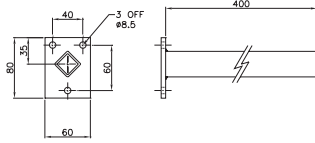
COMPONENT DIMENSIONS (Continued)



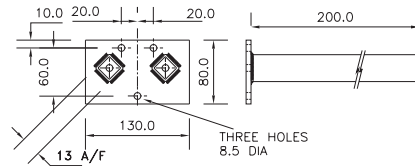
**ISOLATION SECTION
Standard Phase Cover
(310025)**



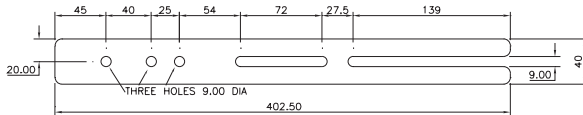
**SINGLE COLLECTOR BRACKET
13mm square
(310994)**



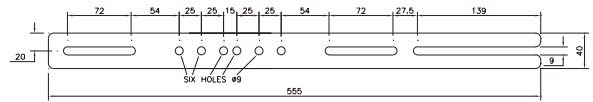
**SINGLE COLLECTOR BRACKET
25mm square
(310991)**



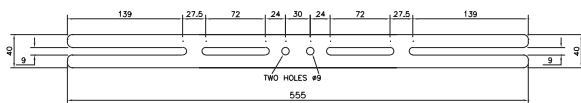
**DOUBLE COLLECTOR BRACKET
13mm square
(310898)**



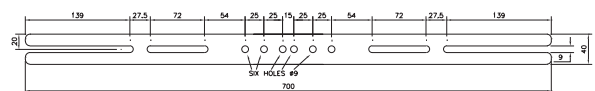
**SINGLE SIDED BRACKET
(310980)**



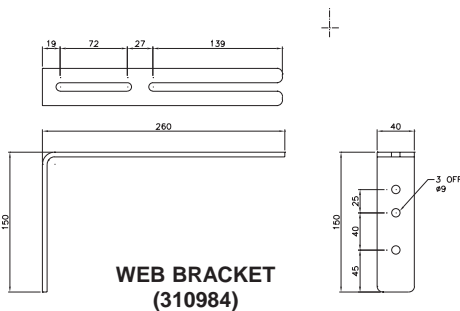
**SINGLE SIDED BRACKET
(310982)**



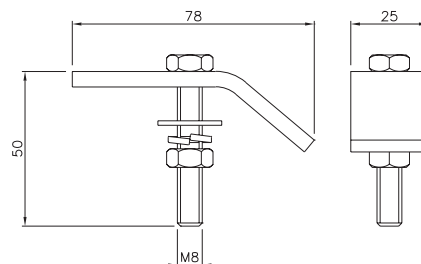
**DOUBLE SIDED BRACKET
(310981)**



**DOUBLE SIDED BRACKET
(310983)**



**WEB BRACKET
(310984)**



**GIRDER CLAMP
(310985)**

SAFELEC 3 TECHNICAL DATA

| CONDUCTOR BAR COVER | STANDARD | MEDIUM HEAT |
|---------------------------------|----------------------------|----------------------------|
| Material | PVC | BAYBLEND |
| Dielectric strength | 180 KV/cm | 240 KV/cm |
| Surface resistivity | $10^{11}\Omega$ | $>10^{14}\Omega$ |
| Volume resistivity | $>10^{15}\Omega/\text{cm}$ | $>10^{16}\Omega/\text{cm}$ |
| Maximum operating temperature * | 80°C | 120°C |
| Minimum operating temperature | -20°C | -20°C |
| Flame-test | Self extinguishing | Self extinguishing |
| Oxygen index | 54% | 24% |
| Specific density | 1.5 g/cm ³ | 1.15 g/cm ³ |

* See Table on Page 4

| CONDUCTOR BAR | COPPER | | ALUMINIUM / STAINLESS STEEL |
|--|--------------------|--------------------|-----------------------------|
| Nominal current | 500A | 800A | 630A |
| Cross sectional area | 115mm ² | 171mm ² | 277mm ² |
| Maximum system voltage (AC) (contact Insul-8 for other voltages) (DC) (contact Insul-8 for other voltages) | 1000V 1000V | 1000V 1000V | 1000V 1000V |
| Resistance R (for DC) at 20°C (Ω/m) | 0.000149 | 0.000100 | 0.000113 |
| Impedance Z (for AC) at 20°C (Ω/m) | 0.000189 | 0.000154 | 0.000162 |
| Maximum allowable ambient temperature for 100% duty cycle | 25°C | 25°C | 25°C |
| Bar length | 4.5m | 4.5m | 4.5m |
| Support pitch Standard | 1500mm | 1500mm | 1500mm |
| Minimum pitch centres Standard | 60mm | 60mm | 60mm |
| Expansion sections: not required for runs less than | 150m | 150m | 150m |
| Minimum bending radius: (horizontal only) | 1.5m | 1.5m | 1.5m |

Railway
Shore
Supply

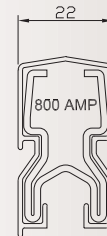
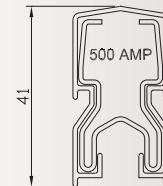
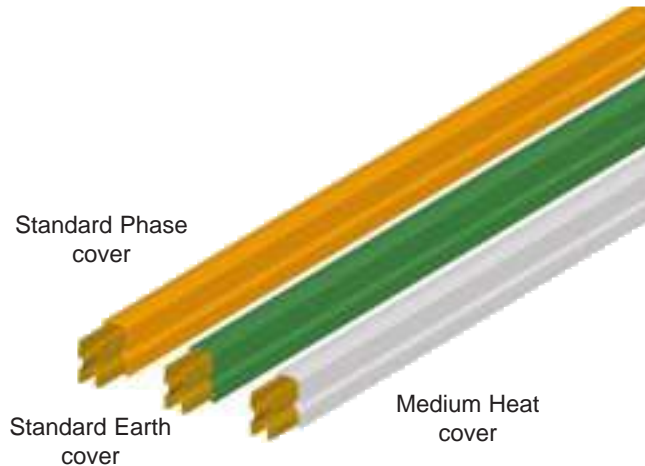


Electric Mining Vehicles



COPPER CONDUCTOR BARS

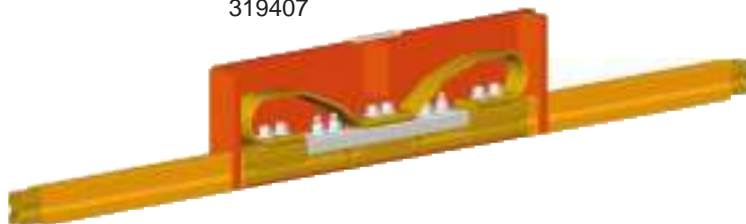
| CURRENT RATING | 500A | 800A |
|--------------------------------------|--------|--------|
| Standard Phase cover (orange) | 319201 | 319401 |
| Standard Earth cover (green) | 319202 | 319402 |
| Medium Heat cover Phase (grey) Earth | 319203 | 319403 |
| | 319204 | 319404 |
| Weight (Kg) | 5.40 | 7.65 |



EXPANSION SECTIONS

| CURRENT RATING | 500A | 800A |
|--------------------------------------|--------|--------|
| Standard Phase cover (orange) | 319207 | 319407 |
| Standard Earth cover (green) | 319208 | 319408 |
| Medium Heat cover Phase (grey) Earth | 319209 | 319409 |
| | 319210 | 319410 |
| Weight (Kg) | 7.40 | 10.15 |

Expansion section 319407



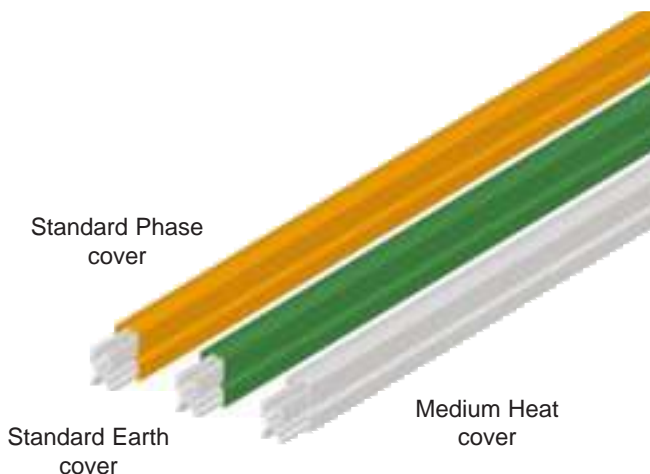
Expansion sections are required on all systems over 150m long.

The maximum gap of the expansion section is 50mm.

The expansion section is 4.5m long and is installed in place of one length of conductor bar.

ALUMINIUM / STAINLESS STEEL CONDUCTOR BARS

| CURRENT RATING | 630A |
|--------------------------------|--------|
| Standard Phase cover (orange) | 319301 |
| Standard Earth cover (green) | 319302 |
| Medium Heat cover Phase (grey) | 319303 |
| Earth | 319304 |
| Weight (Kg) | 4.23 |



EXPANSION SECTIONS

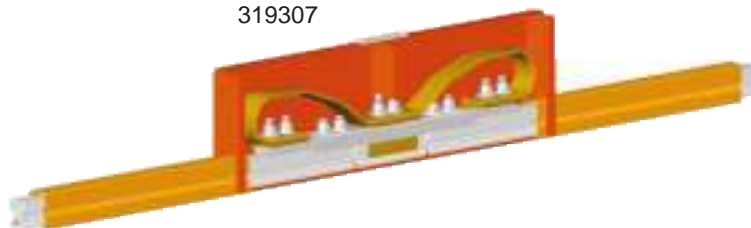
| CURRENT RATING | 630A |
|--------------------------------|--------|
| Standard Phase cover (orange) | 319307 |
| Standard Earth cover (green) | 319308 |
| Medium Heat cover Phase (grey) | 319309 |
| Earth | 319310 |
| Weight (Kg) | 6.50 |

Expansion sections are required on all systems over 150m long.

The maximum gap of the expansion section is 50mm.

The expansion section is 4.5m long and is installed in place of one length of conductor bar.

Expansion section 319307



JOINTS

| JOINT | | Weight (Kg) |
|---------------------|--------|-------------|
| Copper (up to 800A) | 319874 | 0.25 |
| Aluminium | 319873 | 0.08 |

| JOINT COVER | | |
|-------------------------------|------|------------------|
| Standard Phase cover (orange) | | 319850 |
| Standard Earth cover (green) | | 319851 |
| Medium Heat cover | grey | 319472 319473 |
| Weight (Kg) | | 0.04 |

800A Copper Joint
319874



Aluminium Joint
319873



Standard Phase cover
319850



| JOINTING COMPOUND | Weight (Kg) |
|-------------------|-------------|
| 310932 | 0.225 |

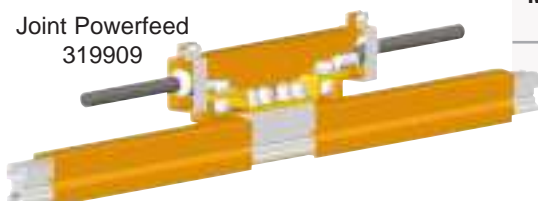
JOINTING COMPOUND

Jointing compound should be applied to the contact surfaces of the joint and bar at every joint on copper and aluminium systems. One tube is sufficient for over 300 connections.

POWERFEEDS: JOINT POWERFEED

| POWERFEED | |
|-------------------------|-------------|
| Standard cover (orange) | 319909 |
| Medium Heat cover (red) | 319870 |
| Weight (Kg) | 0.30 |

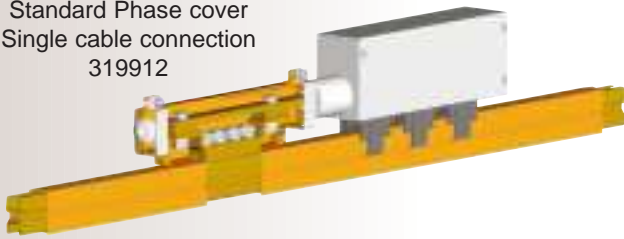
Joint Powerfeed
319909



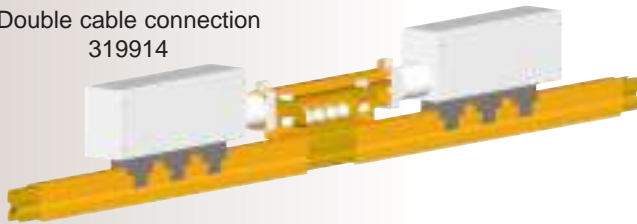
Powerfeed has cable connection for maximum 2 x 50mm² cables.

POWERFEED SECTIONS

Standard Phase cover
Single cable connection
319912



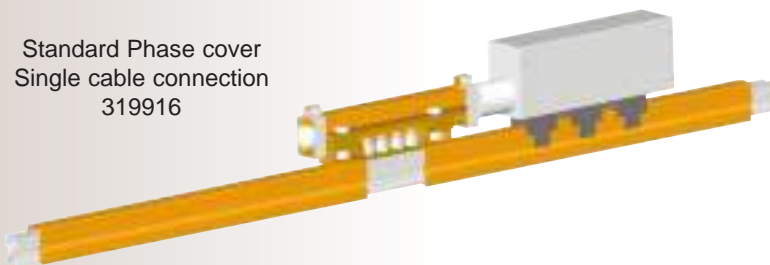
Standard Phase cover
Double cable connection
319914



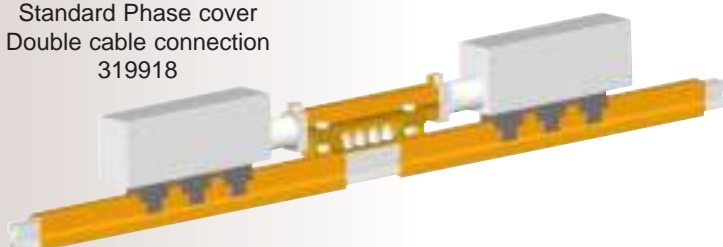
Powerfeed sections are 4.5m long and should be fitted in place of a length of conductor bar.

Suitable for connection of 1 or 2 cables up to 50mm²

Standard Phase cover
Single cable connection
319916



Standard Phase cover
Double cable connection
319918



COPPER BAR

| SINGLE CABLE CONNECTION | 500A |
|--------------------------------|-------------|
| Standard Phase cover (orange) | 319912 |
| Standard Earth cover (green) | 319913 |
| Medium Heat Phase cover (grey) | 319926 |
| Medium Heat Earth cover (grey) | 319927 |
| Weight (Kg) | 6.56 |

| DOUBLE CABLE CONNECTION | 500A | 800A |
|--------------------------------|------------|--------------|
| Standard Phase cover (orange) | 319914 | 319910 |
| Standard Earth cover (green) | 319915 | 319911 |
| Medium Heat Phase cover (grey) | 319928 | 319468 |
| Medium Heat Earth cover (grey) | 319929 | 319469 |
| Weight (Kg) | 8.0 | 10.25 |

ALUMINIUM / STAINLESS STEEL BAR

| SINGLE CABLE CONNECTION | 630A |
|--------------------------------|-------------|
| Standard Phase cover (orange) | 319916 |
| Standard Earth cover (green) | 319917 |
| Medium Heat Phase cover (grey) | 319930 |
| Medium Heat Earth cover (grey) | 319931 |
| Weight (Kg) | 5.39 |

| DOUBLE CABLE CONNECTION | 630A |
|--------------------------------|-------------|
| Standard Phase cover (orange) | 319918 |
| Standard Earth cover (green) | 319919 |
| Medium Heat Phase cover (grey) | 319932 |
| Medium Heat Earth cover (grey) | 319934 |
| Weight (Kg) | 6.83 |

HANGER CLAMPS: STANDARD MOUNT

| | STANDARD (BLACK) | POLYCARBONATE (RED) | STAINLESS STEEL WITH ZINC PLATED HARDWARE |
|-------------|------------------|---------------------|---|
| Single pole | 319821 | 319829 | 319826 |
| Weight | 0.027 | 0.030 | 0.070 |



Single pole hanger
319821



Stainless steel hanger
319826

Standard hangers are acetyl.

Maximum support spacing is 1.5m.

HANGER CLAMPS: WITH INSULATOR

| | | | WEIGHT (Kg) |
|-------------|-----------------|--------|-------------|
| Single pole | (Black) | 319834 | 0.10 |
| Single pole | (Red) | 319839 | 0.10 |
| Single pole | Stainless steel | 319827 | 0.106 |
| Single pole | Two part | 319833 | 0.08 |
| Two pole | Two part | 319838 | 0.174 |



Stainless steel hanger with insulator
319827



Single pole two part hanger
319833



Two pole two part hanger
319838

In particularly dusty or humid environments, hangers with insulator should be used.

ANCHOR CLAMPS

| | | WEIGHT (Kg) |
|--|--------|-------------|
| Standard | 319832 | 0.06 |
| With insulator | 319964 | 0.12 |
| Without top bolt (two required per anchor point) | 319963 | 0.05 |



Anchor clamp
319832



Anchor clamp with insulator
319964



Anchor clamp without top bolt
319963

Anchor points are usually situated in the middle of a conductor system.

Additional anchor points are required for systems with expansion sections.

END CAPS

| | | WEIGHT (Kg) |
|---------|--------|-------------|
| End cap | 319892 | 0.04 |

End cap
319892

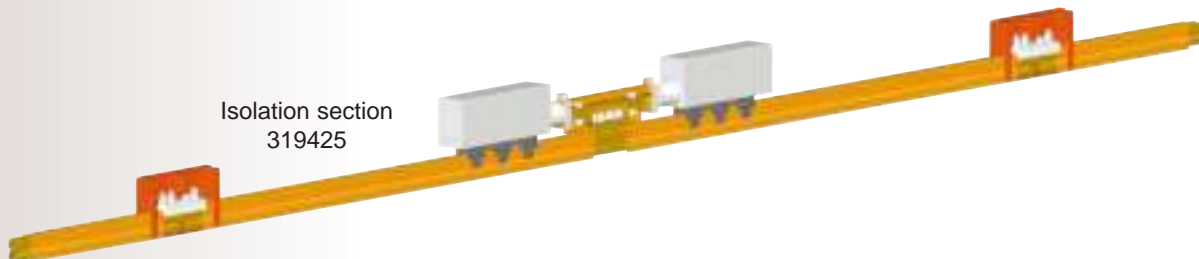


ISOLATION SECTIONS

COPPER BAR

| CURRENT RATING | 500A | 800A |
|-------------------------------|--------|--------|
| Standard Phase cover (orange) | 319012 | 319425 |
| Standard Earth cover (green) | 319013 | 319426 |
| Medium Heat cover phase earth | 319015 | 319431 |
| | 319016 | 319432 |
| Weight (Kg) | 2.97 | 3.42 |

Isolation section
319425



Isolation sections provide electrical separation between adjacent sections of conductor bar.

Only for use in dry, clean conditions.

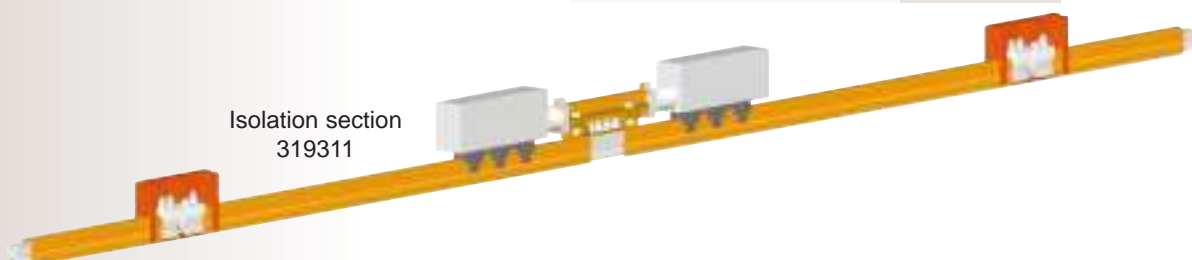
The Isolation section is 4.5m long and is installed in place of one length of conductor bar.

It is recommended that Isolation sections are not fitted in earth conductors.

ALUMINIUM / STAINLESS STEEL BAR

| CURRENT RATING | 630A |
|-------------------------------|--------|
| Standard Phase cover (orange) | 319311 |
| Standard Earth cover (green) | 319312 |
| Medium Heat cover phase earth | 319313 |
| | 319314 |
| Weight (Kg) | 2.4 |

Isolation section
319311



COLLECTORS

| CURRENT RATING | 100A | 250A |
|---------------------------|--------|-------|
| Phase | 310990 | 34956 |
| Earth - without deflector | 399355 | |
| Earth - right hand | 399340 | |
| Earth - left hand | 399352 | |
| Weight (Kg) | 0.8 | 2.00 |



100A collectors are supplied without cable.

Stranded cable terminal clamps are included.

250A collectors are supplied with 2 x 1m 35mm² cable.

COLLECTOR SHOE + HOLDER

| CURRENT RATING | 50A + 100A Phase - red | 50A + 100A Earth - green | 250A |
|----------------|---------------------------|-----------------------------|-------|
| Code | 310993 | 399357 | 35289 |
| Weight (Kg) | 0.06 | 0.06 | 0.28 |



The copper graphite shoe ensures electrical continuity, a smooth contact with the conductor bar and a good resistance to wear.

COLLECTOR BRACKET

13mm square, 200mm long for use with 50A collector.

25mm square, 400mm long for use with 100A and 250A collectors.

| | 13mm SQUARE | Weight (Kg) | 25mm SQUARE | Weight (Kg) |
|--------|-------------|-------------|-------------|-------------|
| Single | 310994 | 0.36 | 310991 | 0.88 |
| Double | 310898 | 0.74 | 310992 | 1.84 |



BRACKETS: SINGLE SIDED BRACKET

319980 - to suit beam flange 80-155mm.

319982 - to suit beam flange 155-305mm.

| | WEIGHT (Kg) |
|--------|-------------|
| 319980 | 0.66 |
| 319982 | 0.86 |



BRACKETS: DOUBLE SIDED BRACKET

319981 - to suit beam flange 80-185mm.

319983 - to suit beam flange 185-305mm.

| | WEIGHT (Kg) |
|--------|-------------|
| 319981 | 0.84 |
| 319983 | 1.08 |



BRACKETS: WEB BRACKET

| | WEIGHT (Kg) |
|--------|-------------|
| 319984 | 0.62 |



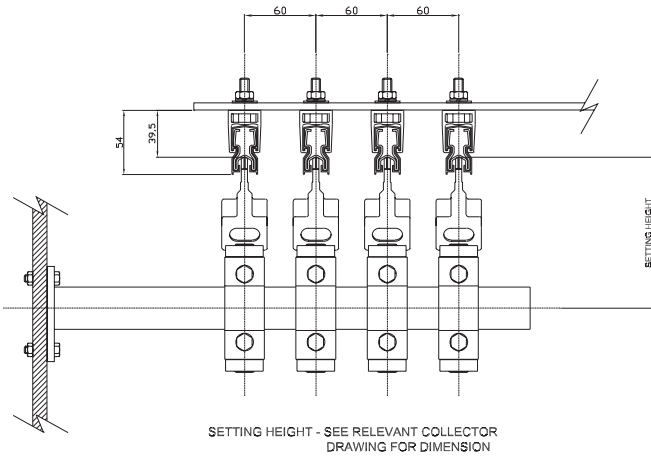
BRACKETS: GIRDER CLAMP

| | WEIGHT (Kg) |
|--------|-------------|
| 310985 | 0.08 |



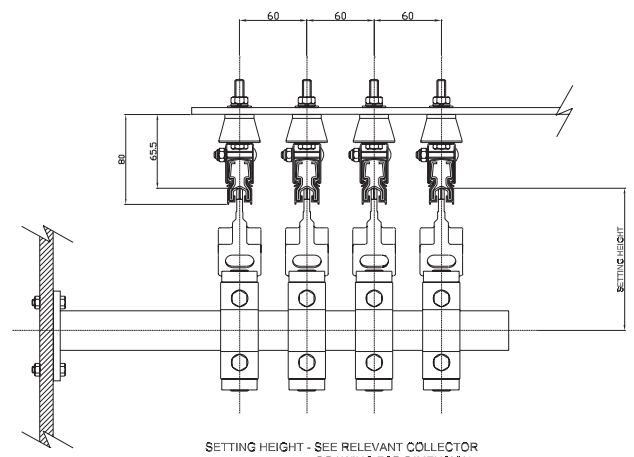
SYSTEM DIMENSIONS

STANDARD HANGER CLAMPS



SETTING HEIGHT - SEE RELEVANT COLLECTOR DRAWING FOR DIMENSION

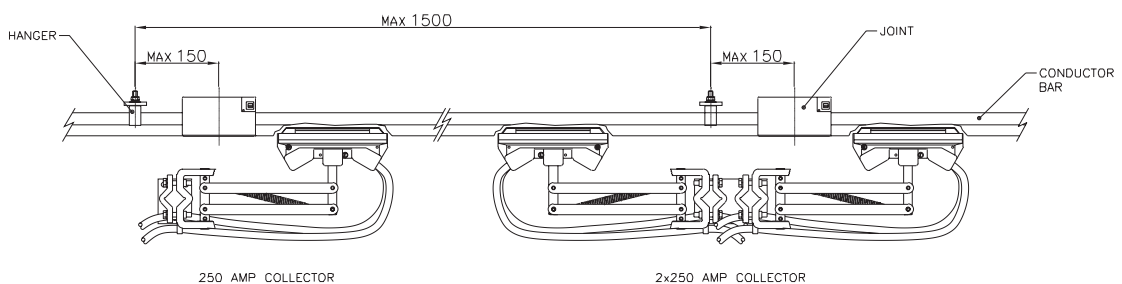
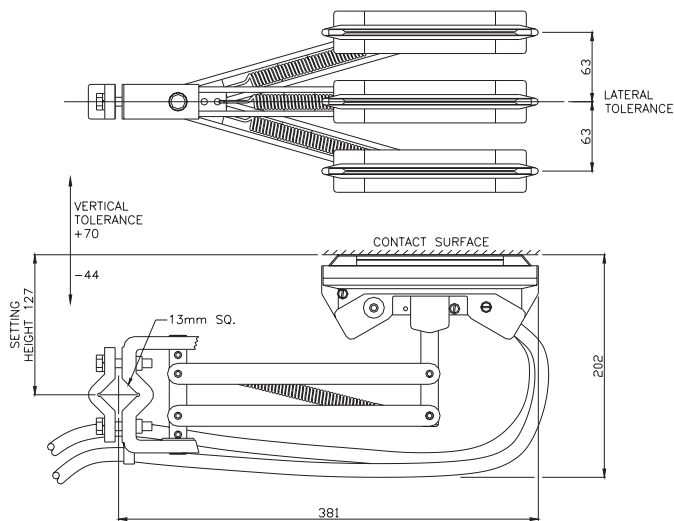
HANGER CLAMPS WITH INSULATOR



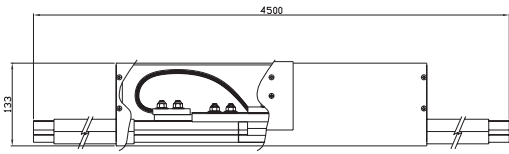
SETTING HEIGHT - SEE RELEVANT COLLECTOR DRAWING FOR DIMENSION

COLLECTOR SETTING DETAILS

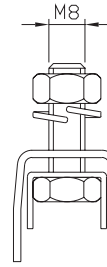
250A COLLECTOR (34956)



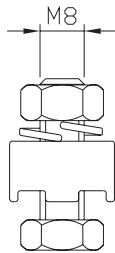
COMPONENT DIMENSIONS



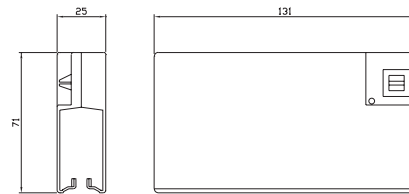
500A EXPANSION SECTION - Standard Phase Cover
(319207)



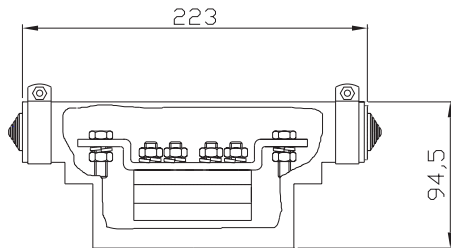
COPPER JOINT
(up to 800A)
(319874)



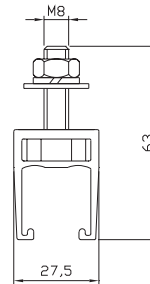
ALUMINIUM JOINT
(319873)



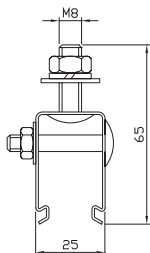
STANDARD PHASE COVER
(319850)



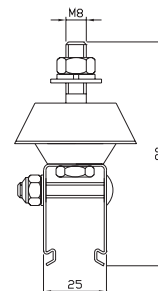
JOINT POWERFEED
(319909)



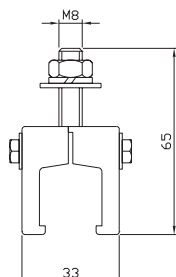
SINGLE POLE HANGER
(319821)



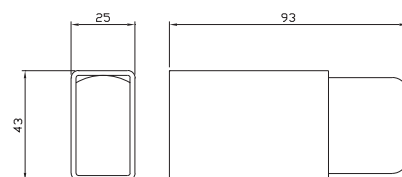
STAINLESS STEEL HANGER
(319826)



STAINLESS STEEL HANGER CLAMP with Insulator
(319827)



STANDARD ANCHOR CLAMP
(319832)



END CAP
(319892)

V BAR TECHNICAL DATA

For use in applications where regular disconnection and reconnection of current collectors is required: for example in mining and quarrying.

The specially designed profile of the insulating cover guides the collector shoe onto the sliding surface of the conductor bar, providing greater tolerance and allowing the collectors to be correctly located without direct access to the bar.

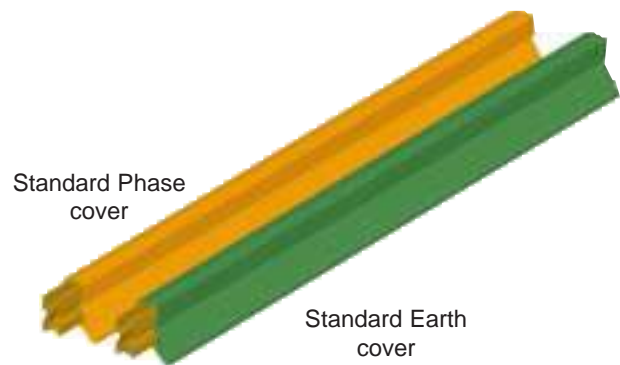
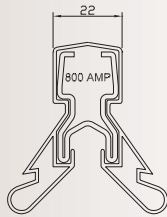
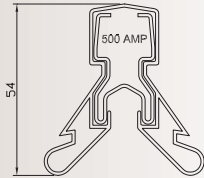
| CONDUCTOR BAR COVER | STANDARD | MEDIUM HEAT |
|---------------------------------|----------------------------|----------------------------|
| Material | PVC | BAYBLEND |
| Dielectric strength | 180 KV/cm | 240 KV/cm |
| Surface resistivity | $10^{11}\Omega$ | $>10^{14}\Omega$ |
| Volume resistivity | $>10^{15}\Omega/\text{cm}$ | $>10^{16}\Omega/\text{cm}$ |
| Maximum operating temperature * | 80°C | 120°C |
| Minimum operating temperature | -20°C | -20°C |
| Flame-test | Self extinguishing | Self extinguishing |
| Oxygen index | 54% | 24% |
| Specific density | 1.5 g/cm ³ | 1.15 g/cm ³ |

* See Table on Page 4

| CONDUCTOR BAR | COPPER | | ALUMINIUM / STAINLESS STEEL |
|--|--------------------|--------------------|-----------------------------|
| Nominal current | 500A | 800A | 630A |
| Cross sectional area | 115mm ² | 171mm ² | 277mm ² |
| Maximum system voltage (AC) (contact Insul-8 for other voltages) (DC) (contact Insul-8 for other voltages) | 1000V 1000V | 1000V 1000V | 1000V 1000V |
| Resistance R (for DC) at 20°C (Ω/m) | 0.000149 | 0.000100 | 0.000113 |
| Impedance Z (for AC) at 20°C (Ω/m) | 0.000189 | 0.000154 | 0.000162 |
| Maximum allowable ambient temperature for 100% duty cycle | 25°C | 25°C | 25°C |
| Bar length | 6m | 6m | 6m |
| Support pitch Standard | 1500mm | 1500mm | 1500mm |
| Lateral | 1125mm | 1125mm | 1125mm |
| Minimum pitch centres Standard | 70mm | 70mm | 70mm |
| Lateral | 70mm | 70mm | 70mm |
| Expansion sections: not required for runs less than | 150m | 150m | 150m |
| Minimum bending radius: (horizontal only) | 1.5m | 1.5m | 1.5m |

COPPER CONDUCTOR BARS

| CURRENT RATING | 500A | 800A |
|-------------------------------|--------|--------|
| Standard Phase cover (orange) | 319250 | 319451 |
| Standard Earth cover (green) | 319869 | 319452 |
| Weight (Kg) | 6.33 | 8.55 |



EXPANSION SECTIONS

| CURRENT RATING | 500A | 800A |
|-------------------------------|--------|--------|
| Standard Phase cover (orange) | 319257 | 319457 |
| Standard Earth cover (green) | 319258 | 319458 |
| Weight (Kg) | 8.93 | 11.15 |

Expansion sections are required on all systems over 150m long.

The maximum gap of the expansion section is 50mm.

The expansion section is 1.5m long.

Expansion section 319457



ISOLATION SECTIONS

Isolation sections provide electrical separation between adjacent sections of conductor bar.

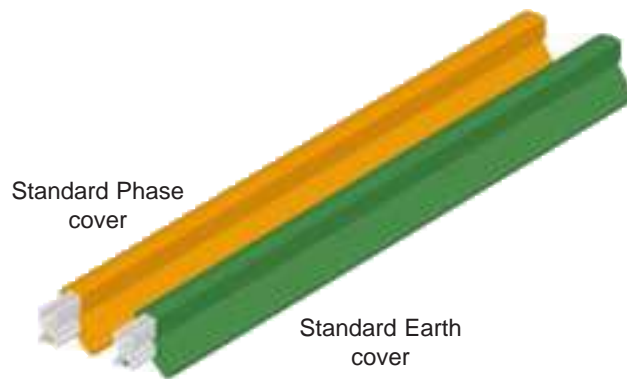
Only for use in dry, clean conditions.

It is recommended that Isolation sections are not fitted in earth conductors.

| CURRENT RATING | 500A | 800A |
|-------------------------------|--------|--------|
| Standard Phase cover (orange) | 319253 | 319453 |
| Weight (Kg) | 7.3 | 9.55 |

ALUMINIUM / STAINLESS STEEL CONDUCTOR BARS

| CURRENT RATING | 630A |
|-------------------------------|--------|
| Standard Phase cover (orange) | 319351 |
| Standard Earth cover (green) | 319352 |
| Weight (Kg) | 5.13 |



EXPANSION SECTIONS

| CURRENT RATING | 630A |
|-------------------------------|--------|
| Standard Phase cover (orange) | 319357 |
| Standard Earth cover (green) | 319358 |
| Weight (Kg) | 7.73 |

Expansion section 319357



Expansion sections are required on all systems over 150m long.

The maximum gap of the expansion section is 50mm.

The expansion section is 1.5m long.

ISOLATION SECTIONS

| CURRENT RATING | 630A |
|-------------------------------|--------|
| Standard Phase cover (orange) | 319353 |
| Weight (Kg) | 6.1 |

Isolation sections provide electrical separation between adjacent sections of conductor bar.

Only for use in dry, clean conditions.

It is recommended that Isolation sections are not fitted in earth conductors.

JOINTS



| JOINT | | Weight (Kg) |
|-----------------|--------|-------------|
| Copper 500/800A | 319885 | 0.25 |
| Aluminium | 319873 | 6.08 |



Aluminium Joint
319873

| JOINT COVER | |
|----------------|--------|
| Standard cover | 319840 |
| Weight (Kg) | 0.168 |

Standard cover
319840

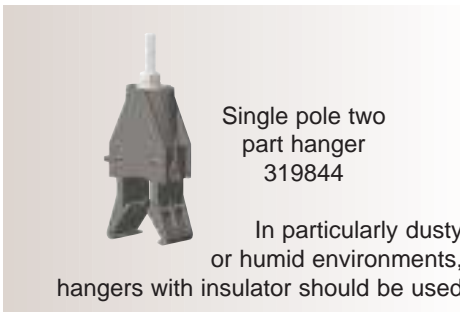


POWERFEEDS: JOINT POWERFEED



| POWERFEED | |
|------------------------|--------|
| Standard cover (black) | 319845 |
| Weight (Kg) | 0.16 |

HANGER CLAMPS: WITH INSULATOR



| | | WEIGHT (Kg) |
|-------------|----------|-------------|
| Single pole | Two part | 319844 |
| | | 0.114 |

ANCHOR CLAMPS



| | | WEIGHT (Kg) |
|-------------------|--------|-------------|
| Heavy duty anchor | 319843 | 0.7 |

END CAPS



| | | WEIGHT (Kg) |
|------------------|--------|-------------|
| Transfer end cap | 319846 | 0.08 |

COLLECTORS

| CURRENT RATING | 100A | 250A |
|---------------------------|--------|-------|
| Phase | 310990 | 34956 |
| Earth - without deflector | 399355 | |
| Earth - right hand | 399340 | |
| Earth - left hand | 399352 | |
| Weight (Kg) | 0.8 | 2.00 |



100A Phase Collector
310990



100A Collector
(Earth left)
399352



250A Collector
34956

100A collectors are supplied without cable.

Stranded cable terminal clamps are included.

250A collectors are supplied with 2 x 1m 35mm² cable.

COLLECTOR SHOE + HOLDER

| CURRENT RATING | 50A + 100A Phase - red | 50A + 100A Earth - green | 250A |
|----------------|---------------------------|-----------------------------|-------|
| Code | 310993 | 399357 | 35289 |
| Weight (Kg) | 0.06 | 0.06 | 0.28 |



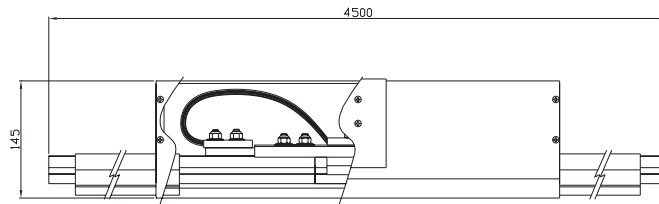
50 / 100A Collector
Shoe and Holder
310993



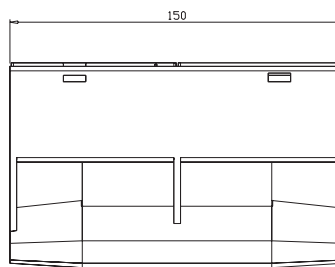
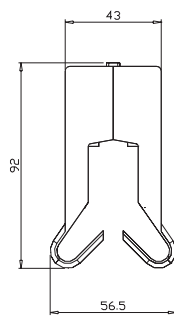
250A Collector
Shoe and Holder
35289

The copper graphite shoe ensures electrical continuity, a smooth contact with the conductor bar and a good resistance to wear.

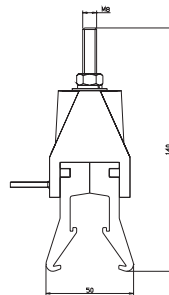
COMPONENT DIMENSIONS



800A EXPANSION SECTION
Standard Phase Cover
(319457)



JOINT COVER
Standard
(319840)



SINGLE POLE TWO PART HANGER
(319844)

ALL OTHER COMPONENT DIMENSIONS AS SAFELEC 3

Large empty rectangular box for notes.

NOTES

CONDUCTIX Worldwide



POWER AND DATA TRANSFER

HEADQUARTERS

DELACHAUX S.A.

119 Avenue Louis Roche -BP152
92231 Gennevilliers Cedex
FRANCE
Tel: +33 (0) 1 46 88 15 00
Fax: +33 (0) 1 46 88 15 01
www.delachaux.fr
delachomgt@delachaux.fr

CONDUCTIX OPERATIONS

119 Avenue Louis Roche -BP152
92231 Gennevilliers Cedex
FRANCE
Tel: +33 (0) 1 46 88 15 13
Fax: +33 (0) 1 46 88 15 10
conductix@delachaux.fr
www.conductix.com

AUSTRALIA

CONDUCTIX Pty. Ltd... (Insul-8)

Dandenong
Tel: + (61) 3 97 06 88 44
Fax: + (61) 3 97 94 92 98
info@conductix.com.au
www.conductix.com.au

BENELUX

CONDUCTIX Benelux

Brussels
Tel: + (32) (0) 2 469 25 60
Fax: + (32) (0) 2 469 29 35
info@conductix.be
www.conductix.be

CANADA

CONDUCTIX Corp. (Insul-8)

St. Jerome
Tel: (450) 565-9900
Fax: (450) 432-6985
infocanada@conductix.us
www.conductix.ca

CHINA

CONDUCTIX Ltd.. (Han-Fa)

Wuhan
Tel: + (86) 27 83 49 99 88
Fax: + (86) 27 83 49 99 89
info@conductix.cn
www.conductix.cn

FRANCE

CONDUCTIX (Delachaux)

Belley
Tel: + 33 (0) 4 79 42 50 00
Fax: + 33 (0) 4 79 42 50 05

Gennevilliers
Tel: + 33 (0) 1 46 88 15 23
Fax: + 33 (0) 1 46 88 15 21
infoconductix@conductix.fr
www.conductix.fr

GERMANY / AUSTRIA

CONDUCTIX GmbH

Offenbach / Main
Tel: + (49) 69 98 40 23 0
Fax: + (49) 69 98 40 23 99
info@conductix.de
www.conductix.de

ITALY

CONDUCTIX Srl (Comes)

Milan
Tel: + 39 (0) 39 607 431
Fax: + 39 (0) 39 607 43292

Turin
Tel: + 39 (0) 11 45 09 007
Fax: + 39 (0) 11 42 41 008
info@conductix.it
www.conductix.it

MEXICO

CONDUCTIX S.de R.L. de C.V. (Insul-8)

Monterrey
Tel: + (52) 811 090 9013
Fax: + (52) 811 090 9014
infomexico@conductix.us
www.conductix.com.mx

SOUTHEAST ASIA

CONDUCTIX Singapore

Singapore
Tel: + (65) 6329 6405
Fax: + (65) 6329 9699
info@conductix.com.sg
www.conductix.com

UNITED KINGDOM

CONDUCTIX Ltd.. (Insul-8)

Salford
Tel: + (44) 161 848 01 61
Fax: + (44) 161 873 70 17
info@conductix.co.uk
www.conductix.co.uk

UNITED STATES

CONDUCTIX, Inc. (Insul-8)

Omaha, NE
Tel: + (1) 800 521 4888
+ (1) 402 339 9300
Fax: + (1) 800 780 8329
+ (1) 402 339 9627

Harlan, IA
Tel: + (1) 402 339 9300
Fax: + (1) 402 339 9627
info@conductix.us
www.conductix.us

Countries where we are also represented :

Algeria, Argentina, Austria, Bahrain, Bolivia, Brazil, Bulgaria, Cameroon, Chile, China, Colombia, Congo, Ivory Coast, Croatia, Czech Republic, Denmark, U.A.E., Ecuador, Egypt, Finland, Gabon, Greece, Guatemala, Guinea, Honduras, Hungary, Indonesia, India, Iraq, Iran, Ireland, Israel, Japan, Jordan, Korea, Kuwait, Lebanon, Madagascar, Malaysia, Mali, Mauritania, Mexico, Morocco, Netherlands, New Zealand, Niger, Nigeria, Norway, Pakistan, Panama, Paraguay, Peru, Philippines, Poland, Portugal, Romania, Russia, Saudi Arabia, Senegal, Slovakia, South Africa, Spain, Sweden, Switzerland, Syria, Thailand, Taiwan, Tunisia, Turkey, Uruguay, Venezuela, Vietnam...