OVERHEAD POWER LINE SPECIALIST CATALOGUE
Established in 1966, Cu Al Engineering (Pty) Ltd is a leading supplier in the field of overhead power distribution and transmission products. Operating from the main business centres of South Africa, Johannesburg, Durban and Cape Town, Cu Al Engineering supplies to customers throughout Southern and Central Africa, as well as around the world.
Solid Link Fuse Tube
D-DT- 3086
Used in conjunction with drop out fuse units, 200A timed brass

Off Load Gang Isolator
D-DT-
Three phase 11, 22 & 33kv
Silicone

On-Load Isolator
D-DT-
Three phase 11, 22 & 33kv
Silicone
On & Off Load

Fuse Tube
D-DT- 3086
Used in conjunction with drop out fuse units fiberglass

Switch Isolator
D-DT-
Single phase 11 - 33KV
Aluminium

Neutral Surge Arrestor 6KV
D-DT- 3100
Distribution class surge arrestor & neutral surge arrestor, silicone
Range - 6 KV

Lighting Arrestor
D-DT- 3100
Single phase 11/22 & 33KV / 10KA
Silicone

Fuse Link
Used with Drop out
Remove button Head
Time Delay & Quick blow
Range 5A - 100A
Type - K, KA, KA/dt
Code - FL005T

Drop Out Unit
D-DT- 3086
Drop out units
Complete with Fuse Tube
11, 22 & 33 KV
Silicone/Porcelain
**Cut Out Fuses**

**11 Kv Fuse Cutout**

Technical Specifications:
- Rated Voltage: 11 KV
- Rated Current: 100 / 200 A
- Breaking Current: 10 / 12.5 KA
- Power Frequency Withstand Voltage: 55 KV
- Creepage Distance: 400 mm

**11/24 Kv Fuse Cutout**

Technical Specifications:
- Rated Voltage: 11/24 KV
- Rated Current: 100 / 200 A
- Breaking Current: 12.5 KA
- Power Frequency Withstand Voltage: 75 KV
- Creepage Distance: 600 mm

*NOTE: Illustrations are examples displaying the component with all the hardware excluding the bracket & fuse break.*
### Technical Specifications

<table>
<thead>
<tr>
<th>Max design voltage</th>
<th>Nominal System Voltage</th>
<th>Continuous Current (amps)</th>
<th>Interrupt Capacity (asym. amps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>27kV</td>
<td>Thru. 24.9 kV</td>
<td>100 A</td>
<td>12 kA +</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Basic Insulation Level</th>
<th>Weight</th>
<th>Leakage Distance to Ground</th>
</tr>
</thead>
<tbody>
<tr>
<td>180 kV</td>
<td>4.6 Kg (approx.)</td>
<td>750 mm</td>
</tr>
</tbody>
</table>

### Product Option Coding System

<table>
<thead>
<tr>
<th>Product number</th>
<th>Description</th>
<th>Base</th>
<th>Hardware (B)</th>
<th>Fuse Holder (P)</th>
<th>Fuse Break (FB)</th>
<th>Solid brass (PSB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIL 750 211B</td>
<td>Base with hardware</td>
<td>✗</td>
<td>✗</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SIL 750 211P++</td>
<td>Base, hardware and fuse holder</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SIL 750 211 FB++</td>
<td>Base, hardware, fuse holder with fuse break</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
<td></td>
</tr>
<tr>
<td>SIL 750 211 PSB</td>
<td>Base, hardware and solid link</td>
<td>✗</td>
<td>✗</td>
<td></td>
<td>✗</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE** Illustrations are examples displaying the component with all the hardware excluding the bracket & fuse break.
**6 Kv Surge Arrestor (Neutral)**

**Technical Specifications**
- Rated Voltage: 6 KV
- Nominal discharge current: 10KA
- 8/20 Lighting impulse withstand voltage: 20Kv
- Power frequency reference voltage: 8.4Kv

**12 Kv 10 KA Metal Oxide Arrestor**

**Technical Specifications**
- Rated Voltage: 21KV
- Creepage Distance: 3.70+/-10 mm (31mm/Kv)
- 8/20 Lighting current residual voltage: 33Kv
- 30/60 Switching current residual voltage: 30.8Kv
- 2000 Rectangular wave current impulse: 250A
- 4/10 Current withstand discharge capacity: 100KA
- Energy Release level 1.8KJ/Kv

NOTE: Illustrations are examples displaying the component with all the hardware excluding the bracket & fuse break.
### 21 Kv Surge Arrester

**Technical Specifications**

- **Rated Voltage:** 21kV
- **Continuous operating voltage:** 16.8kV
- **1/4 steep current residual voltage:** 66.5kV
- **8/20 Lighting current residual voltage:** 63kV
- **2000 Rectangular wave current impulse:** 250A
- **4/10 Current withstand discharge capacity:** 100kA
- **Line discharge class:** 1
- **Energy Release level:** 1.8kJ/kV
- **Min Creepage Distance:** 635±10 mm

### 24 Kv Surge Arrester

**Technical Specifications**

- **Rated Voltage:** 24kV
- **Nominal discharge current (KA):** 10
- **Continuous operating voltage:** 19.2kV
- **Creepage Distance:** 800±10 mm (25mm/kV)
- **8/20 Lighting current residual voltage:** 72kV
- **30/60 Switching current residual voltage:** 61.6kV
- **2000 Rectangular wave current impulse:** 100A
- **4/10 Current withstand discharge capacity:** 100kA

### 33 Kv Surge Arrester

**Technical Specifications**

- **Rated Voltage:** 33kV
- **Continuous operating voltage:** 26.8kV
- **1/4 steep current residual voltage:** 104.5kV
- **30/60 switching current residual voltage:** 84.7kV
- **2000 Rectangular wave current impulse:** 250A
- **4/10 Current withstand discharge capacity:** 100kA
- **Power Frequency Withstand Voltage:** 55kV
- **Creepage Distance:** 900 mm
- **Anti Fouling level:** 25mm/kV

**NOTE**: Illustrations are examples displaying the component with all the hardware excluding the bracket & fuse break.
Insulators

**Glass Disc Insulator**
Disc insulator glass ball (16)/ Socket 11KV Glass Disc Insulator (Ball & Socket)
Code - U120bs16

**Pin Insulator**
Pin Insulator 11kv Porcelain
Code - HT1014/40

**SO 5**
D-DT-3094
Shackle insulator 75mm 17mm hole 1 kv Porcelain
SO 5 Shackle insulator
Code - S05

**EP 194**
Reel insulator Sag 75mm 1kv Low Voltage Porcelain
Code - EP194

**Stay Insulator 0522**
D-DT-3141
Stay/Strain Insulator 136LXL 19mm hole Mv stay insulator
Code - SAG522

**Stay Insulator 1075**
D-DT-3144, Porcelain Stay/Strain insulator 95mmLXL19mm, 6 & 11KV Hole Used in stay assembles
Code - SAG1075

**Stand Off**
66KV/132KV Silicone/Forged Comes Complete With Trunnion Clamps
Code - DWC

**Line Post**
D-DT- 3017
Silicone Line Post 11, 22 & 33KV / 12.5KN

**Line Post EP 965**
Uncapped Insulator Creepage Distance 750MM L/Post C/Less 22KV 10 KN 31MM/KV
Code - EP965

**Long Rod**
D-DT-7014 L/ROD 132KV SILICONE B/S ESKOM SPEC 31MM/KV Ball and Socket Long Rod Creepage 4695MMr
Code - COMP 132

*NOTE* Illustrations are examples displaying the component with all the hardware excluding the bracket & fuse break.
Insulators

**Long Rod**
D-DT3042  
Ball and Socket Long Rod  
11, 22, 33 & 66KV/70 & 120KN  
Silicone

**Long Rod**
D-DT-  
Clevis and Tongue  
11&22KV / 70 & 120KN  
Silicone  
Code - COMP 2545

**Guy Strain Insulator**
D-DT3144  
STAY/GUY STRAIN INSULATOR  
97KN/C (CU AL) B.I.L 150KV  
Creepage 460 mm  
Used with the stay Assembly  
Fibre Glass / Coated Silicone  
Code - GTT15-18 HA

**Line Post EP 472**
D-DT-3017  
L/POST C/LESS 22KV 4KN  
25MM/KV Capless Insulator  
Creepage Distance 971MM  
11&22KV / 4KN  
Porcelain  
Code - EP472/P

**Line Post EP 1296**
D-DT- 3017  
L/POST 33KV 10KN 245KV BIL  
Creepage Distance 1296MM  
Steel Capped  
4 & 10KV/36KV  
Code - EP 802

**Line Post EP 864**
D-DT3017  
Creepage Distance 864MM  
(Inland)  
11/24 KN, 24KV  
Porcelain  
Code - EP864

**Line Post EP 480/N**
L/POST 33KN (CREEP = 786MM)  
Steel Capped  
Creepage Distance 786MM  
33KV/4-10KN  
Porcelain  
Code - Ep480/N
**Stand Off Insulator**

**33 KV 8KN Stand Off Insulator**

Technical Specifications
- Minimal system voltage: 33kV
- One minute power frequency withstand:
  - Voltage (50Hz, wet) = 95kV
  - Voltage (50Hz, dry) = 110kV
- Lightning impulse withstand voltage (1.2/50 positive) = 230kV
- Minimum dry arcing distance = 354mm
- Minimum creepage distance = 1170mm
- Specified cantilever load (SCL) = 8KN
- Electrical & Mechanical Ratings are in acc. to IEC 61592

**66 Kv Stand Off**

Technical Specifications
- Minimal system voltage: 66kV
- One minute power frequency withstand:
  - Voltage (50Hz, Wet) = 100kV
  - Voltage (50Hz, Dry) = 215kV
- Lightning impulse withstand voltage (1.2/50, Positive) = 350kV
- Minimum dry arcing distance = 625MM
- Minimum creepage distance = 19000MM
- Specified cantilever load (SCL) = 8KN
- Electrical & Mechanical ratings are in acc. to IEC 61952
Long Rod Silicone Insulator
15 Kv 70 Kn
Technical Specifications
Rated Voltage: 24KV
Arc distance: 180mm
Minimum creepage distance: 440mm
Mechanical load: 70 Kn
Power frequency withstand voltage: 60Kv
Lightning impulse withstand voltage: 110Kv

Long Rod Silicone Insulator
24 Kv 70 Kn
Technical Specifications
Rated Voltage: 24KV
Minimum creepage distance: 700mm
Mechanical load: 70 Kn
Power frequency withstand voltage (dry): 70Kv
Lightning impulse withstand voltage: 190Kv

NOTE: Illustrations are examples displaying the component with all the hardware excluding the bracket & fuse break.
Insulator
36 Kv 70 Kn
Technical Specifications
Rated Voltage: 36KV
Minimum creepage distance: 950 ± 20mm
Mechanical load: 70 Kn
Power frequency withstand voltage: 90Kv
Lightning impulse withstand voltage: 230Kv

66 Kv Long Rod Silicone Insulator
Technical Specifications
Rated Voltage: 66KV
Arc Distance: 733mm
Mechanical Load: 120KN
Creepage Distance: 2090mm

66Kv Line Post Insulator
Technical Specifications
One minute powerful frequency withstand voltage (50Hz, wet) = 112Kv
One minute powerful frequency withstand voltage (50Hz, dry) = 125Kv
Lightning impulse withstand voltage: (1.2/50, Positive) = 250 Kv
Minimum dry arcing distance = 350mm
Minimum creepage distance = 1118mm
Specified cantilever load (SCL) = 12.5Kn
Maximum design cantilever Load (MDCL) = 5KN
Number of sheds (large/small) = 5/5
Mass (approx.) = 3.77Kg
Electrical & mechanical ratings are in acc. to IEC 61952

Housing: injection moulded htv silicone with ath filler (grey ral 7015, min. 3mm)
Composite Core: Pultrued eco-glass fibre &epoxy resin (φ38mm rod)
Base fitting: Steel - hot dip galv. acc to En ISO 1416 min. ave. 105um thk.
Grommet cap: plastic - injection moulded (black & tectyl thread protection
Head fitting: Cast aluminium (for ACSR, AAAC or AAC conductors.

NOTE* Illustrations are examples displaying the component with all the hardware excluding the bracket & fuse break.
Silicone Suspension / Deadend Insulators
Fully tested in accordance with I.E.C 1109

<table>
<thead>
<tr>
<th>Fuse Links</th>
<th>Description</th>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>Description</td>
<td>No.</td>
<td>Description</td>
</tr>
<tr>
<td>1</td>
<td>Washer</td>
<td>6</td>
<td>Solid Button head</td>
</tr>
<tr>
<td>2</td>
<td>Auxiliary tube</td>
<td>7</td>
<td>Crimped Ferrule</td>
</tr>
<tr>
<td>3</td>
<td>Tail</td>
<td>8</td>
<td>Screw type head</td>
</tr>
<tr>
<td>4</td>
<td>Strain Wire</td>
<td>9</td>
<td>Screw head adapter</td>
</tr>
<tr>
<td>5</td>
<td>Fuse element</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Fuse Types: Type K,T,H,MS,Slo-Fast,Open links & Secondary Fuses
Fuse Sizes (Amps): 1,2,3,4,5,6,8,10,12,15,20,25,30,40,50,65,80,100,140 and 200

Note: Double Tail options also available
Glass Disk String Assemblies

Old System New System

Old System New System

Old System New System

Line Post Insulators (Capless)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Voltage</td>
<td>KV</td>
<td>11</td>
<td>22</td>
<td>22</td>
<td>22</td>
<td>22</td>
</tr>
<tr>
<td>Overall Length</td>
<td>L mm</td>
<td>205</td>
<td>256.9</td>
<td>250</td>
<td>256.9</td>
<td>250</td>
</tr>
<tr>
<td>Largest Shed Dia</td>
<td>D mm</td>
<td>150</td>
<td>150</td>
<td>152</td>
<td>152</td>
<td>150</td>
</tr>
<tr>
<td>Number of Sheds</td>
<td></td>
<td>3</td>
<td>6</td>
<td>7</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>Nominal Creepage Distance</td>
<td>mm</td>
<td>330</td>
<td>500</td>
<td>500</td>
<td>630</td>
<td>750</td>
</tr>
<tr>
<td>Bottom Fixing Diameter</td>
<td>d mm</td>
<td>73</td>
<td>73</td>
<td>73</td>
<td>73</td>
<td>75</td>
</tr>
<tr>
<td>Top Fixing Diameter</td>
<td>dI mm</td>
<td>73</td>
<td>73</td>
<td>73</td>
<td>73</td>
<td>75</td>
</tr>
<tr>
<td>Top Groove Radius</td>
<td>R mm</td>
<td>20</td>
<td>20</td>
<td>4</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>Cantilever Strength</td>
<td>kN</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Dry Arching Distance</td>
<td>mm</td>
<td>195</td>
<td>230</td>
<td>290</td>
<td>129</td>
<td>109</td>
</tr>
<tr>
<td>Power Frequency Flashover Dry</td>
<td>kv</td>
<td>76.7</td>
<td>92</td>
<td>124</td>
<td>109</td>
<td>106</td>
</tr>
<tr>
<td>Power Frequency Flashover Wet</td>
<td>kv</td>
<td>45.4</td>
<td>71</td>
<td>84</td>
<td>86</td>
<td>85</td>
</tr>
<tr>
<td>Power Frequency Withstand Dry</td>
<td>kv</td>
<td>74.2</td>
<td>82</td>
<td>121</td>
<td>106</td>
<td>111</td>
</tr>
<tr>
<td>Power Frequency Withstand Wet</td>
<td>kv</td>
<td>38.5</td>
<td>61</td>
<td>76</td>
<td>72</td>
<td>85</td>
</tr>
<tr>
<td>Impulse Withstand Voltage</td>
<td>kv</td>
<td>125.7</td>
<td>135</td>
<td>183</td>
<td>194</td>
<td>186</td>
</tr>
<tr>
<td>Impulse Flashover Positive</td>
<td>kv</td>
<td>132.1</td>
<td>139</td>
<td>187</td>
<td>191</td>
<td>193</td>
</tr>
<tr>
<td>Impulse Flashover Negative</td>
<td>kv</td>
<td>238.3</td>
<td>302</td>
<td>362</td>
<td>343</td>
<td>344</td>
</tr>
<tr>
<td>Weight</td>
<td>kg</td>
<td>5.7</td>
<td>5.7</td>
<td>7.8</td>
<td>9.3</td>
<td>10.2</td>
</tr>
<tr>
<td>Packed Weight</td>
<td>kg</td>
<td>6.5</td>
<td>6.5</td>
<td>7.8</td>
<td>9.3</td>
<td>10.2</td>
</tr>
<tr>
<td>Packing Distance</td>
<td></td>
<td>Wire bond</td>
<td>Wire bond</td>
<td>Wire bond</td>
<td>Wire bond</td>
<td>Wire bond</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product No.</th>
<th>EP1046-00</th>
<th>EP1054-00</th>
<th>EP1086-00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Voltage</td>
<td>KV</td>
<td>33</td>
<td>33</td>
</tr>
<tr>
<td>Overall Length</td>
<td>L mm</td>
<td>364</td>
<td>401</td>
</tr>
<tr>
<td>Largest Shed Dia</td>
<td>D mm</td>
<td>180</td>
<td>210</td>
</tr>
<tr>
<td>Number of Sheds</td>
<td></td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Nominal Creepage Distance</td>
<td>mm</td>
<td>960</td>
<td>1120</td>
</tr>
<tr>
<td>Bottom Fixing Diameter</td>
<td>d mm</td>
<td>75</td>
<td>75</td>
</tr>
<tr>
<td>Top Fixing Diameter</td>
<td>dI mm</td>
<td>75</td>
<td>75</td>
</tr>
<tr>
<td>Top Groove Radius</td>
<td>R mm</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>Cantilever Strength</td>
<td>kN</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Dry Arching Distance</td>
<td>mm</td>
<td>389</td>
<td>390</td>
</tr>
<tr>
<td>Power Frequency Flashover Dry</td>
<td>kv</td>
<td>161</td>
<td>185.7</td>
</tr>
<tr>
<td>Power Frequency Flashover Wet</td>
<td>kv</td>
<td>123</td>
<td>86.4</td>
</tr>
<tr>
<td>Power Frequency Withstand Dry</td>
<td>kv</td>
<td>146</td>
<td>96</td>
</tr>
<tr>
<td>Power Frequency Withstand Wet</td>
<td>kv</td>
<td>85</td>
<td>76</td>
</tr>
<tr>
<td>Impulse Flashover Positive</td>
<td>kv</td>
<td>250</td>
<td>207</td>
</tr>
<tr>
<td>Impulse Flashover Negative</td>
<td>kv</td>
<td>238</td>
<td>221.5</td>
</tr>
<tr>
<td>Weight</td>
<td>kg</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>Packed Weight</td>
<td>kg</td>
<td>15.5</td>
<td>16.5</td>
</tr>
<tr>
<td>Colour</td>
<td></td>
<td>Brown</td>
<td>Brown</td>
</tr>
<tr>
<td>Packing Distance</td>
<td></td>
<td>Wire bond</td>
<td>Wire bond</td>
</tr>
</tbody>
</table>
**ABC Fittings**

**Bare Neutral Strain Clamp**  
D-DT-3060  
ABC Strain clampy blue B/N  
Low Voltage  
Al & Plastic  
Code - HA235BN

**Pre Insulated Joints**  
D-DT-3089  
Joining of Abc Lines in  
Midspan Ranges from 25 - 95  
AL & Plastic, Low Voltage  
Code - XCXF

**Bi Metal Lugs**  
D-DT-3042  
Various ranges to suit all  
Conductors types  
35/240 inc. CABL18/10/12  
AL & Copper  
Code - XCX

**Pre Insulated Lugs**  
D-DT-3116  
Various ranges of lugs for  
ABC conductors to  
transformers Studs  
AL & Copper, 6KV UW  
Code - XCXPI

**ABC Strain Clamp**  
D-DT-3060  
PA1500 Black Cual Used  
for stringing ABC  
conducted Insulated earth  
AL & Plastic  
Code - ABCDE/C/I

**German Suspension Clamp**  
D-DT-70 - 95MM2X4  
Steel & Rubber  
Code - GSH70-95

**Airdac Strain Clamp**  
D-DT-3067  
4-10MM2, green wedge  
Used for straining Airdac  
hose connections  
Thermo Plastic  
Code - PAA 04-10/I

**German Suspension Clamp**  
D-DT3042  
50MM 2x4  
Steel & Rubber  
Code - GSH50

**Airdac Strain Clamp 4-10**  
D-DT-3067  
4-10 MM /SAP168744  
Thermo Plastic  
Code - PAA 04-10/I

**German Suspension Clamp**  
D-DT-25mm 2x 4  
Steel & Rubber  
Code - GSH25

**Airdac Starin Clamp 4-10**  
D-DT-3067  
10-16MM  
Thermo Plastic  
Code - PAA 04-10/I

**German Suspension Clamp**  
D-DT-25MM 2X4  
Steel & Rubber  
Code - GSH25

**Pre Insulated Lugs**  
D-DT-3116  
Various ranges of lugs for  
ABC conductors to  
transformers Studs  
AL & Copper, 6KV UW  
Code - XCXPI
German Strain Clamp
D-DT- PAG25/120, 25 - 120 mm
Steel & Rubber
Code - GS120

Airdac Suspension Clamp
D-DT- 3061
Used in the suspension of ABC & Airdac
Thermo Plastic
Code -

ABC Suspension Clamp
D-DT-
Thermo Plastic
Code -

PG Clamps
D-DT- 3058
Comes in Wide Variety of AL/AL & AL/CU
Aluminium
Code -

Insulation Piercing Connectors
D-DT- 3039
Comes in Wide Variety
(95-6, 95-35, 95-95, 295-95, 20-95, 185-95, 185-185)
Tinned Brass & High grade steel
Code - IPC

Cs 10 Strain Clamp
D-DT-
ABC Suspension clamp
bkt only CS10
Aluminium
Code - ABCSA/B

Cs 14 Strain Clamp
D-DT-
ABC Suspension Clamp
bkt only CS14
Aluminium
Code - ABCDE/B

Suspension Assemble ABC
BPC Code - 2743

Strain Assemble ABC
BPC Code - 2742
Extruded Parallel Groove Clamp

**FOR BI-METAL CONNECTION**

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>NO. OF BLTS</th>
<th>Conductor Dia.</th>
<th>Current Capacity</th>
<th>STD PAK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1646-IG</td>
<td>1</td>
<td>4.12-11.81mm</td>
<td>300</td>
<td>200</td>
</tr>
<tr>
<td>1646-2G</td>
<td>2</td>
<td>4.12-11.81mm</td>
<td>300</td>
<td>100</td>
</tr>
<tr>
<td>1646-3G</td>
<td>3</td>
<td>4.12-11.81mm</td>
<td>300</td>
<td>50</td>
</tr>
<tr>
<td>1556-IG</td>
<td>1</td>
<td>3.71-14.35mm</td>
<td>350</td>
<td>100</td>
</tr>
<tr>
<td>1556-2G</td>
<td>2</td>
<td>3.71-14.35mm</td>
<td>350</td>
<td>50</td>
</tr>
<tr>
<td>1556-3G</td>
<td>3</td>
<td>3.71-14.35mm</td>
<td>350</td>
<td>30</td>
</tr>
<tr>
<td>2674-IG</td>
<td>1</td>
<td>6.62-18.9mm</td>
<td>490</td>
<td>80</td>
</tr>
<tr>
<td>2674-2G</td>
<td>2</td>
<td>6.62-18.9mm</td>
<td>490</td>
<td>40</td>
</tr>
<tr>
<td>2674-3G</td>
<td>3</td>
<td>6.62-18.9mm</td>
<td>490</td>
<td>20</td>
</tr>
<tr>
<td>65-125-3G</td>
<td>*3</td>
<td>16.5-31.0mm</td>
<td>1000</td>
<td>20</td>
</tr>
</tbody>
</table>

*CAD-PLATED STEEL BOLTS

**FOR ALUM. TO ALUM CONNECTION**

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>NO. OF BLTS</th>
<th>Conductor Dia.</th>
<th>Current Capacity</th>
<th>STD PAK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1646-IG</td>
<td>1</td>
<td>4.12-11.81mm</td>
<td>300</td>
<td>200</td>
</tr>
<tr>
<td>1646-2G</td>
<td>2</td>
<td>4.12-11.81mm</td>
<td>300</td>
<td>100</td>
</tr>
<tr>
<td>1646-3G</td>
<td>3</td>
<td>4.12-11.81mm</td>
<td>300</td>
<td>50</td>
</tr>
<tr>
<td>1556-IG</td>
<td>1</td>
<td>3.71-14.35mm</td>
<td>350</td>
<td>100</td>
</tr>
<tr>
<td>1556-2G</td>
<td>2</td>
<td>3.71-14.35mm</td>
<td>350</td>
<td>50</td>
</tr>
<tr>
<td>1556-3G</td>
<td>3</td>
<td>3.71-14.35mm</td>
<td>350</td>
<td>30</td>
</tr>
<tr>
<td>2674-IG</td>
<td>1</td>
<td>6.62-18.9mm</td>
<td>490</td>
<td>80</td>
</tr>
<tr>
<td>2674-2G</td>
<td>2</td>
<td>6.62-18.9mm</td>
<td>490</td>
<td>40</td>
</tr>
<tr>
<td>2674-3G</td>
<td>3</td>
<td>6.62-18.9mm</td>
<td>490</td>
<td>20</td>
</tr>
<tr>
<td>65-125-3G</td>
<td>*3</td>
<td>16.5-31.0mm</td>
<td>1000</td>
<td>20</td>
</tr>
</tbody>
</table>

Universal Overhead Parallel Groove Clamp

**Material**: Forged heat treated aluminium alloy for maximum strength, corrosion resistance and conductivity

**Part No.**
- 5975
- 5975B
- 5975S

**Conductor Dia.**
- 4-15mm

**Bolts**
- M8 x 45
- M8 x 45
- M8 x 45 SS

5975 - Standard Al - Al, bolt heads coded blue.
5975B - Bi-metallic cadmium plated, bolt heads coded yellow.

**Note**: For best results, Karl Phthrene Pl contact compound is recommended.
Low Voltage Aerial Bundle Accessories

Insulation Piercing Connectors

<table>
<thead>
<tr>
<th>Part No. (mm sq.)</th>
<th>Range of main (mm sq.)</th>
<th>Range of tap</th>
<th>Bolts</th>
<th>Torque</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPC 95-6</td>
<td>25-95</td>
<td>1.5-6</td>
<td>1 x M8</td>
<td>18Nm</td>
</tr>
<tr>
<td>IPC 95-35</td>
<td>25-95</td>
<td>6-35</td>
<td>1 x M8</td>
<td>18Nm</td>
</tr>
<tr>
<td>IPC 95-95</td>
<td>25-95</td>
<td>25-95</td>
<td>1 x M10</td>
<td>22Nm</td>
</tr>
<tr>
<td>IPC 295-95</td>
<td>25-95</td>
<td>25-95</td>
<td>2 x M8</td>
<td>18Nm</td>
</tr>
<tr>
<td>IPC 120-95</td>
<td>25-120</td>
<td>25-95</td>
<td>1 x M10</td>
<td>22Nm</td>
</tr>
<tr>
<td>IPC 185-95</td>
<td>95-185</td>
<td>25-95</td>
<td>1 x M10</td>
<td>22Nm</td>
</tr>
<tr>
<td>IPC 185-185</td>
<td>95-185</td>
<td>95-185</td>
<td>1 x M10</td>
<td>22NM</td>
</tr>
</tbody>
</table>

Optional Features: 6Kv Waterproof with shearhead
for use with bare tap conductor
for use with main conductor

Pre-Insulated Lugs and Ferrules
Full range available, from 25mm - 95mm
Standard E-173 / Hex 150 mm die.
International colour coded.
Full tension ferrules and various other options available.

Non Insulated Lugs and Ferrules
Full range available, from 25mm - 95mm
Standard die sizes.
Various other options available.

400 Amp Fuse Switch Disconnect
(network switch)

Options Conductor Range
25-185mm sq./insulator piercing.
25-185mm sq./bared conductor.
95 - 240mm sq./bared conductor.
(single or double outlets available as required)
Blown fuse indicator and gauge operated option available on request.

Ratings
- Maximum current rating: 400 amps
- Fuse size: NH-1-2
- Fuse maximum: 630 amps
- Solid link: 300 volts
- Maximum operating voltage: 500 volts

*Fuse not included

160 Amp Fuse Switch Disconnect
(network switch)

Options Conductor Range
16 - 95mm sq./insulator piercing.
4 - 16mm sq./bared conductor.
16 - 95mm sq./bared conductor.
(single or double outlets available as required)
Blown fuse indicator and gauge operated option available on request.

Ratings
- Maximum current rating: 160 amps
- Fuse size: NH 00
- Fuse maximum: 160 amps
- Solid link: 245 volts
- Maximum operating voltage: 500 volts

*Fuse not included
**Twisted Link**  
D-DT- 3043  
Xarm linkn twisted Hdg extension Link  
Steel dipped Galvinised  
Code - DDT 3043

**Stay Strap**  
D-DT- 3032  
20MM 60X 16H/D/SAP163398  
60 x 16MM Strap used to stay assembly  
Steel Dipped Galvanised  
Code - D-DT-302/20H

**D Iron**  
D-DT- 3096  
106 X 79 X 38 X 5  
with M12 bolt, D Iron used for the SO 5 shackle insulator, Steel dipped Galvinised  
Code - 505/MD

**Strut Pole Bracket**  
D-DT- 3150  
LV strut bracket 750 x 60 x 10  
D3150/LV  
Steel Dipped Galvanised  
Code - DDT SB

**Pole Top Bracket**  
D-DT- 3046  
NEW REV / SAP168552  
Pole Top bracket for mounting of insulators, Steel dipped Galvinised  
Code - DDT3046/REV

**D Shackle**  
D-DT- 3010  
A/shackle 70KN 16MM  
Split pin / SAP163400  
Used in conjunction with stringing, 70 & 120KN  
Steel Dipped Galvanised  
Code - AS7OP/1  
Code - AS120 B/1

**Question Mark Bracket**  
D-DT- 3086  
Used for mounting of drop out units to wooden poles  
Steel dipped Galvinised  
Code - QM BRACKET

**Eye Nut**  
D-DT- 3004  
E/nut galv 16MM/20MM forged SAP163908,40 & 70KN  
Steel Dipped Galvanised  
Code - EN16/I  
Code - EN20/I

**L Bracket**  
D-DT- 3086  
Used for mounting Drop out units to steel crossers  
Steel dipped Galvinised  
Code - CUAL-B

**Fuse Switch Bracket LV**  
D-DT- 3182  
Lv fuse holder bracket complete for / SAP165097  
Used for the mounting of Mosdorpher  
Steel Dipped Galvanised  
Code - S501/B
**Line Hardware**

**Threaded Rod**
D-DT- 3015
Available in M6, M12, M16 & M20
Complete to Eskom Specifications
Steel dipped Galvanised
Code - TR

**Sag Adjust**
D-DT- 7042
Sag Adjuster 120KV
Steel dipped Galvanised
Code - SAG 120

**Base Plates (Octagonal)**
D-DT- 3172
Slotted Octagonal Base Plate
Various sizes 300 x 300 & 375 x 340
Steel dipped Galvanised
Code - SPNA

**Base Plates (Square)**
D-DT-
Various sizes 4,5,6mm
Steel dipped Galvanised
Code - SP

**Base Plate (Round)**
D-DT- 3172
Round Slotted base plate 350MM
Steel dipped Galvanised
Code - CUAL-B

**Yoke Plate**
D-DT- 1042
Steel Dipped Galvanised
Code - YP120
150 - 200 - 300

**Crossarm**
D-DT- 3020
D-Dt- 3022
Steel Crossarm various sizes available 1.3M, 2M, 2.6M
A frames available as well
Steel Dipped Galvanised
Code - SK3198
Code - SK3198A
Code - SK3198C

**Strut Pole Bracket**
D-DT- 3150
Strut bracket Swivel
D3150/MV SAP225330
Heavy Duty Swivel Bracket
Steel Dipped Galvanised
Code - DDT3150

**Pig Tail Bolt**
D-DT- 3003
Various sizes available
M10, M12 & M16
Steel Dipped Galvanised
Code - PT

**Eyebolt**
D-DT- 3005
Eyebolts
Available in M20 x 250
M20 x 300 or M16 x 250
Complete with nuts & washers
Steel Dipped Galvanised
Code - EB20
Line Hardware

Clevis CAB 100
D-DT- 3007
Thimble clevis alum SAP0402551
Used in the stringing of conductors
Al Alloy
Code - CAB100/1

Clevis CAB 100 Conducting
D-DT-
Thimble clevis alum conducting SAP 055819
Al Alloy
Code - CAB100/CONDUCTING

Ball Eye Adaptor
D-DT- 7008
Ball oval eye 120KN 16MM
Steel dipped galvanised
Code - BE120

Stay Thimble
D-DT- 3026
Stay thimble galvanised
20MM GALV/ SAP164312
Steel dipped galvanised
Code - D-DT- 3026/1

Non Adjustable Stay Rods
D-DT- 3011
Various Non adjustable stay rods
M12x 1.5M, M16 X 1.5M,
M20x 2M, M20x 2.4M
Steel dipped Galvinised
Code - SRNA

Ratchet Spindle
D-DT- 3050
Various sizes
Steel Dipped Galvanised

Insulator Spindle
D-DT- 3050
Various sizes 50MMxM20
300MMxM20, 50MMxM20
Used for the mountings of insulators
Steel Dipped Galvanised
Code - EPS35/050
Code - EPS35/254

M2 Spindle
D-DT-
Various sizes 20-50, 20-180
20-250
Steel Dipped Galvanised
Code - EPS

Coach Screw
D-DT- 3090
M12x75
Steel Dipped Galvanised
CS6
CS8
CS10
CS12

Crosby Clamp
D-DT- 3005
Various ranges of different sized commercial Crosby Clamps available in 4,8 & 12MM
Steel Dipped Galvanised
Code - CROSBY
**Line Hardware**

**2 Bolt Pistol Grip**
D-DT- 7022
2 Bolt Pistol Grip, 70KN
Aluminium
Code - ST 5-17

**Socket Tongue**
D-DT-3061
Adapter Socket 70-120KN complete with split pin
Steel dipped Galvinised
Code - ST120/EC

**3 Bolt Pistol Grip**
D-DT- 7022
3 Bolt pistol grip 70KN
Conductor Ranges 5 - 20.5MM
Al Alloy
Code - ST 5-21

**Suspension Clamp**
D-DT-3008
Various ranges Available
5-18, 12-26MM, 70KN
Aluminium
Code - SP 8-18
Code - SP 12-26

**Tie Strap / Bracing Strap**
D-DT-3031/701
Used for mounting of crossarms
Slotted Hole 701 x 50 x 6
Steel dipped galvinised

**Pig Tail Screw**
D-DT-3120
P/tail screw M8,M10X150
Used with Lv Assembles
Steel Dipped Galvanised
Code - PTM8
Code - PTM10

**4 Bolt Pistol Grip**
D-DT- 7022
Pistol grip, Gun clamp 4 bolt range 19- 30MM, 70KN
Aluminium
Code - ST 19-30

**Socket Clevis**
D-DT- 7021
Socket Clevis Adaptor 120KN
Forged Steel, Dipped Galvanised
Code - SC70
Code - SC120

**Bracing Strap**
D-DT- 3028
Used for mounting of crossarm
Hole / Hole 910 x 50 x 6
Steel dipped galvinised
Code - BS

**Clevis Ball**
D-DT- 6059
70 & 120KN
Forged Steel, Dipped Galvanised
Steel Dipped Galvanised
Code - CB70
Code - CB120
Line Hardware

Clevis Ball Y Type
D-DT- 3044
120KN
Forged Steel Dipped
Galvanised
Code - CBY120

Pig Tail Ball Hook
Pig tail ball hook
Forged Steel Dipped
Galvanised
Code - VC28

Tower Hook
D-DT-
Tower hook adapter
Forged Steel Dipped
Galvanised
Code - BH70

Adjustable Stay Rods
D-DT- 3023
Various Adjustable stay rods
M16X1.8M, M16X2.4M, M20X1.8M,
M20X2.4M, M25X2.4M
Steel Dipped Galvanised
Code - 5R

Low Voltage Hardware

Fuse 00 DIN
D-DT- 3181
63, 80, 125, 160A
Used in conjunction with the Mosdopher
Code - NH00

Fuse Switch Holder
D-DT-3182
MSDRFR SWITCH
1PH S/IN D/OUT / SAP165096
Mosdopher fuse switch holder
Plastic
Code - 5501/EB/SIDO

Compression Fittings

Lugs
D-DT-3074
Lugs For Various Conductor Ranges
BI Metal
Code - XCX35
Code - XCX35PI
Code - XCX50
Code - XCX70/12/I
Code - XCX120
Code - XCX150
Code - XCX185
Code - XCX240

Non Tension Joints
D-DT- 3098
For Joining of various types of conductors
Aluminum
Code - NTJ/BM10110 (4.5-9mm)
Code - NTJ/BM10130 (9-15mm)
Code - NTJ/HW2011
Code - NTJ/HW2313
Code - NTJ/KINGBIRD
Code - NTJ/CHICADEE
**Botswana Power Corp**

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BPC 2779</td>
<td>BOLTS, NUTS &amp; WASHER</td>
<td>M12 x 65 x 30</td>
</tr>
<tr>
<td>BPC 2785</td>
<td>BOLT, NUT &amp; WASHER</td>
<td>M16 x 230 x 75</td>
</tr>
<tr>
<td>BPC 2786</td>
<td>BOLT, NUT &amp; WASHER</td>
<td>M16 x 255 x 75</td>
</tr>
<tr>
<td>BPC 2787</td>
<td>BOLT, NUT &amp; WASHER</td>
<td>M16 x 300 x 100/150</td>
</tr>
<tr>
<td>BPC 2789</td>
<td>BOLT, NUT &amp; WASHER</td>
<td>M20 x 180 x 75</td>
</tr>
<tr>
<td>BPC 2790</td>
<td>BOLT, NUT &amp; WASHER</td>
<td>M20 x 230 x 100</td>
</tr>
<tr>
<td>BPC 2791</td>
<td>BOLT, NUT &amp; WASHER</td>
<td>M20 x 375 x 150</td>
</tr>
<tr>
<td>BPC 2800</td>
<td>SCREW SET, NUT &amp; WASHER</td>
<td>M15 x 40</td>
</tr>
<tr>
<td>BPC 2801</td>
<td>SCREW SET, NUT &amp; WASHER</td>
<td>M16 x 75</td>
</tr>
</tbody>
</table>

**Eswatini Electricity Corp**

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEC 0760</td>
<td>BOLT &amp; NUT</td>
<td>M16 x 300 x 150 THREAD</td>
</tr>
<tr>
<td>EEC 0711</td>
<td>BOLT &amp; NUT</td>
<td>M20 x 250 x 150 THREAD</td>
</tr>
</tbody>
</table>

Various Nuts & Bolt sizes available
### Standard End Fittings

- **Standard Range**

<table>
<thead>
<tr>
<th>Code</th>
<th>Insulator Name</th>
<th>PF/AC Flashover</th>
<th>PF/AC Wet</th>
<th>Lightning Impulse</th>
<th>Dry Arc Distance</th>
<th>Creepage mm</th>
<th>Center Distance</th>
<th>SML KN</th>
<th>No. of Sheds</th>
</tr>
</thead>
<tbody>
<tr>
<td>B00</td>
<td>CUAL 130-40</td>
<td>77</td>
<td>45</td>
<td>127</td>
<td>160</td>
<td>385</td>
<td>70</td>
<td>292</td>
<td>4</td>
</tr>
<tr>
<td>Q00</td>
<td>CUAL 140/400</td>
<td>90</td>
<td>55</td>
<td>143</td>
<td>170</td>
<td>400</td>
<td>70</td>
<td>320</td>
<td>4</td>
</tr>
<tr>
<td>J0O</td>
<td>CUAL 210/600</td>
<td>122</td>
<td>86</td>
<td>211</td>
<td>300</td>
<td>600</td>
<td>70</td>
<td>450</td>
<td>6</td>
</tr>
<tr>
<td>E0O</td>
<td>CUAL 2545</td>
<td>127</td>
<td>86</td>
<td>220</td>
<td>310</td>
<td>765</td>
<td>8</td>
<td>450</td>
<td>8</td>
</tr>
<tr>
<td>GO2</td>
<td>CUAL 280/970</td>
<td>181</td>
<td>126</td>
<td>282</td>
<td>440</td>
<td>1000</td>
<td>70</td>
<td>580</td>
<td>8</td>
</tr>
<tr>
<td>GO4</td>
<td>CUAL 290/1000</td>
<td>181</td>
<td>126</td>
<td>282</td>
<td>440</td>
<td>1010</td>
<td>8</td>
<td>520</td>
<td>6+5</td>
</tr>
<tr>
<td>Q00</td>
<td>CUAL 210/1000</td>
<td>130</td>
<td>93</td>
<td>211</td>
<td>290</td>
<td>1000</td>
<td>8</td>
<td>575</td>
<td>12</td>
</tr>
<tr>
<td>R0</td>
<td>CUAL 270/1100</td>
<td>148</td>
<td>107</td>
<td>252</td>
<td>365</td>
<td>1100</td>
<td>6+5</td>
<td>70</td>
<td>6</td>
</tr>
<tr>
<td>N0O</td>
<td>CUAL 160/70</td>
<td>180</td>
<td>146</td>
<td>285</td>
<td>430</td>
<td>1200</td>
<td>12</td>
<td>420</td>
<td>6</td>
</tr>
<tr>
<td>MOO</td>
<td>CUAL 200/600</td>
<td>114</td>
<td>80</td>
<td>200</td>
<td>290</td>
<td>600</td>
<td>70</td>
<td>450</td>
<td>6</td>
</tr>
<tr>
<td>T0O</td>
<td>CUAL 200/480</td>
<td>118</td>
<td>87</td>
<td>226</td>
<td>283</td>
<td>480</td>
<td>8</td>
<td>70</td>
<td>8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Insulator Name</th>
<th>PF/AC Flashover</th>
<th>PF/AC Wet</th>
<th>Lightning Impulse</th>
<th>Dry Arc Distance</th>
<th>Creepage mm</th>
<th>Center Distance</th>
<th>SML KN</th>
<th>No. of Sheds</th>
</tr>
</thead>
<tbody>
<tr>
<td>D00</td>
<td>CUAL 160/70</td>
<td>104</td>
<td>60</td>
<td>165</td>
<td>225</td>
<td>560</td>
<td>70</td>
<td>292</td>
<td>6</td>
</tr>
<tr>
<td>L00</td>
<td>CUAL 170/600</td>
<td>108</td>
<td>65</td>
<td>174</td>
<td>240</td>
<td>600</td>
<td>70</td>
<td>310</td>
<td>6</td>
</tr>
<tr>
<td>H02</td>
<td>CUAL 220/1000</td>
<td>150</td>
<td>105</td>
<td>220</td>
<td>380</td>
<td>1000</td>
<td>70</td>
<td>440</td>
<td>8</td>
</tr>
<tr>
<td>HO1</td>
<td>CUAL 220/1200</td>
<td>150</td>
<td>121</td>
<td>220</td>
<td>390</td>
<td>1200</td>
<td>8</td>
<td>440</td>
<td>70</td>
</tr>
</tbody>
</table>

### Optionals Available

- **Silicon Suspensions/Deadend Insulators**
  - B00
  - O00
  - J0O
  - E0O
  - GO2
  - GO4
  - Q00
  - R0
  - N0O
  - MOO
  - T0O

- **CUAL Insulators**
  - CUAL 130-40
  - CUAL 140/400
  - CUAL 210/600
  - CUAL 2545
  - CUAL 280/970
  - CUAL 290/1000
  - CUAL 210/1000
  - CUAL 270/1100
  - CUAL 160/70
  - CUAL 200/600
  - CUAL 200/480

### Standards

- **Flashover**
- **PF/AC Wet**
- **Lightning Impulse**
- **Dry Arc Distance**
- **Creepage mm**
- **Center Distance**
- **SML KN**
- **No. of Sheds**
Lv Open Wire System

SHACKLE INSULATORS

<table>
<thead>
<tr>
<th>Type No.</th>
<th>Dimensions (mm)</th>
<th>Packing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>S.03</td>
<td>57</td>
<td>63</td>
</tr>
<tr>
<td>S.05</td>
<td>75</td>
<td>88</td>
</tr>
<tr>
<td>S.1</td>
<td>88</td>
<td>100</td>
</tr>
<tr>
<td>S.2</td>
<td>100</td>
<td>114</td>
</tr>
</tbody>
</table>

MILD STEEL FITTINGS

MILD STEEL
HOT DIPPED GALVINISED TO S.A.B.S.763

Mild Steel Shackle Straps & bolts

<table>
<thead>
<tr>
<th>Type No.</th>
<th>Dimensions (mm)</th>
<th>Packing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>S.03/M</td>
<td>63</td>
<td>57</td>
</tr>
<tr>
<td>S.05/M</td>
<td>75</td>
<td>75</td>
</tr>
<tr>
<td>S.1/M</td>
<td>90</td>
<td>75</td>
</tr>
<tr>
<td>S.2/M</td>
<td>115</td>
<td>75</td>
</tr>
</tbody>
</table>

Mild Steel “D” brackets & bolts

<table>
<thead>
<tr>
<th>Type No.</th>
<th>Dimensions (mm)</th>
<th>Packing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>S.03/MD</td>
<td>85</td>
<td>58</td>
</tr>
<tr>
<td>S.05/MD</td>
<td>106</td>
<td>79</td>
</tr>
<tr>
<td>S.1/MD</td>
<td>120</td>
<td>91</td>
</tr>
<tr>
<td>S.2/MD</td>
<td>150</td>
<td>95</td>
</tr>
</tbody>
</table>

House Connection Material—Mounting Ready Bands

Flat Galvanised Washers:
- FW 50 x 8     50 x 50 x 3 with 8 mm center hole
- FW 50 x 12   50 x 50 x 3 with 12 mm center hole
- FW 85 x 8    85 x 85 x 3 with 8 mm center hole
- FW 85 x 12   85 x 85 x 3 with 12 mm center hole
- FW 100 x 8   100 x 100 x 3 with 8 mm center hole
- FW 100 x 12  100 x 100 x 3 with 12 mm center hole

Fender Washers
- FEND / W / 6  Galvanised Fender Washer 6 mm
- FEND / W / 8  Galvanised Fender Washer 8 mm
- FW06         Small flat washer
- NUT06        6 mm Nut
- TR06 x 1000  Threaded rod 6 mm x 1000 mm

Other
- Galvanised saddles 20 mm / 25 mm
- PUC Conduit 20 mm / 25 mm / 50 mm
Stay Rods & Stay Plates

Non-Adjustable Stay Plates

- M12 x 1.5 Metre
- M20 x 2.0 Metre
- M20 x 2.4 Metre

Non-Adjustable Stay Rods

Adjustable Stay Rods

Adjustable Base Plates

Line Taps

<table>
<thead>
<tr>
<th>Size</th>
<th>Slot Width</th>
<th>Takes 2 Conductors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mo 8</td>
<td>4.5 mm</td>
<td>10 mm²</td>
</tr>
<tr>
<td>Mo 6</td>
<td>6.0 mm</td>
<td>16 mm²</td>
</tr>
<tr>
<td>Mo 4</td>
<td>6.9 mm</td>
<td>25 mm²</td>
</tr>
<tr>
<td>Mo 2</td>
<td>8.4 mm</td>
<td>35 + 40 mm²</td>
</tr>
<tr>
<td>Mo 0</td>
<td>10.3 mm</td>
<td>50 mm²</td>
</tr>
<tr>
<td>Mo 3/0</td>
<td>11.2 mm</td>
<td>70 mm²</td>
</tr>
<tr>
<td>Mo 100</td>
<td>14.0 mm</td>
<td>100 mm²</td>
</tr>
<tr>
<td>Mo 5/8</td>
<td>15.9 mm</td>
<td>150 mm²</td>
</tr>
<tr>
<td>Mo 3/4</td>
<td>19.1 mm</td>
<td>185 mm²</td>
</tr>
</tbody>
</table>

Hot Line Clamps

Local Made

- Part Numbers: S 1530 AA, S 1530 AGP-L
- Dimensions:
  - Main Dia. (mm): Min 4, Max 22
  - Top Dia. (mm): Min 4, Max 14

Imported Options

- Part Numbers: S 1530 GP
- Dimensions:
  - Main Dia. (mm): Min 4, Max 19
  - Top Dia. (mm): Min 4, Max 14

* Aluminium body.
* Heavy duty bronze body and spindle
* Current Rating: 485 amps
* Corrosion Resistant - ASTM B1 17 -71
Compression Fittings

**T Connectors**
D-DT-3153
Available for various conductor ranges
Aluminum
Code - TE10411
Code - TE10431
Code - TE10433

**Auto Joint**
D-DT-3231
Used instead of Crimping
No tools Required
Aluminum
Code - GL

**Compression Deadend**
D-DT-7000
Used for ACSR ACC AAAC
Aluminum
All Sizes

**Copper Lugs**
D-DT-3102
Various Sizes Available
From 10 to 95MM
Different Palm Sizes
Tinned Copper

**SCM Copper Cable Lug**
Code - SCM16-12
Code - SCM35-12
Code - SCM70-12
Code - SCM95-12

**Link Sticks - Telescopic**

**Full Tension Compression Joint**
D-DT-
Used for Splicing ACSR / ACSR / AAC
Aluminum
Code - FTJ/19/2,65
Code - FTJ/3/3,35
Code - FTJ/3/4,00
Code - FTJ/7/3,35
Code - FTJ-BERSFORT
Code - FTJ-CHICADEE
Code - FTJ-KINGBIRD
Code - FTJ-PANTHER
Code - FTJ-SYCAMORE

**GTY Copper Ferrules**
Code - GTY 35
Code - GTY 70
Code - GTY 95
**Lightning Protection & Earthing**

**Characteristics**

1. Surface Material of Bimetallic is oxygen-free copper with better anticorrosion and good electric conductivity.
2. Core Material of Bimetallic Earth Electrodes is high grade carbon steel with high tensile strength and good magnetoconductivity.
3. Made by Horizontal Continuous Casting technics, steel & copper Molecules combined perfectly.

---

**Copper Casted Steel Single-round Wire**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Diameter (mm)</th>
<th>Nominal area</th>
<th>Weight/M</th>
<th>Figure</th>
</tr>
</thead>
<tbody>
<tr>
<td>CT15</td>
<td>ø 5</td>
<td>16mm²</td>
<td>0.16kg</td>
<td></td>
</tr>
<tr>
<td>CT16</td>
<td>ø 6</td>
<td>25mm²</td>
<td>0.23kg</td>
<td></td>
</tr>
<tr>
<td>CT17</td>
<td>ø 7</td>
<td>35mm²</td>
<td>0.32kg</td>
<td></td>
</tr>
<tr>
<td>CT18</td>
<td>ø 8</td>
<td>50mm²</td>
<td>0.43kg</td>
<td></td>
</tr>
<tr>
<td>CT10</td>
<td>ø 10</td>
<td>70mm²</td>
<td>0.66kg</td>
<td></td>
</tr>
<tr>
<td>CT12</td>
<td>ø 12</td>
<td>120mm²</td>
<td>0.95kg</td>
<td></td>
</tr>
<tr>
<td>CT14</td>
<td>ø 14</td>
<td>150mm²</td>
<td>1.28kg</td>
<td></td>
</tr>
<tr>
<td>CT15.5</td>
<td>ø 15.5</td>
<td>185mm²</td>
<td>1.57kg</td>
<td></td>
</tr>
<tr>
<td>CT16</td>
<td>ø 16</td>
<td>200</td>
<td>1.66kg</td>
<td></td>
</tr>
<tr>
<td>CT17.5</td>
<td>ø 17.5</td>
<td>240</td>
<td>1.98kg</td>
<td></td>
</tr>
<tr>
<td>CT19.5</td>
<td>ø 19.5</td>
<td>300</td>
<td>2.45kg</td>
<td></td>
</tr>
<tr>
<td>CT22.5</td>
<td>ø 22.5</td>
<td>400</td>
<td>3.26kg</td>
<td></td>
</tr>
</tbody>
</table>

Thickness of copper layer >1mm. General packing: 100 meters/roll. Special packing: 1000 meters or more.

---

**Copper Casted Steel Ground Rods**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Diameter (mm)</th>
<th>Length (m)</th>
<th>Figure</th>
</tr>
</thead>
<tbody>
<tr>
<td>ET1425</td>
<td>ø 14</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>ET1430</td>
<td>ø 14</td>
<td>3.0</td>
<td></td>
</tr>
<tr>
<td>ET1625</td>
<td>ø 16</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>ET1630</td>
<td>ø 16</td>
<td>3.0</td>
<td></td>
</tr>
<tr>
<td>ET1825</td>
<td>ø 18</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>ET1830</td>
<td>ø 18</td>
<td>3.0</td>
<td></td>
</tr>
<tr>
<td>ET2025</td>
<td>ø 25</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>ET2030</td>
<td>ø 30</td>
<td>3.0</td>
<td></td>
</tr>
<tr>
<td>ET2225</td>
<td>ø 22</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>ET2230</td>
<td>ø 22</td>
<td>3.0</td>
<td></td>
</tr>
<tr>
<td>ET2525</td>
<td>ø 25</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>ET2530</td>
<td>ø 29</td>
<td>3.0</td>
<td></td>
</tr>
<tr>
<td>ET12712</td>
<td>ø 12.7</td>
<td>1.2</td>
<td></td>
</tr>
<tr>
<td>ET12715</td>
<td>ø 12.7</td>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td>ET5812</td>
<td>ø 14.2</td>
<td>1.2</td>
<td></td>
</tr>
<tr>
<td>ET5815</td>
<td>ø 14.2</td>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td>ET3412</td>
<td>ø 17.2</td>
<td>1.2</td>
<td></td>
</tr>
<tr>
<td>ET3415</td>
<td>ø 17.2</td>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td>ET2012</td>
<td>ø 20</td>
<td>1.2</td>
<td></td>
</tr>
<tr>
<td>ET2015</td>
<td>ø 20</td>
<td>1.5</td>
<td></td>
</tr>
</tbody>
</table>

(Un-thread)

(threaded rods for extension)

---

**Copper Casted Steel Stranded Cable**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Nominal area</th>
<th>Strand No./Diameter</th>
<th>Weight/M</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTJ16</td>
<td>16mm²</td>
<td>7/ ø 1.50mm</td>
<td>0.166kg</td>
<td></td>
</tr>
<tr>
<td>CTJ25</td>
<td>25mm²</td>
<td>7/ ø 2.20mm</td>
<td>0.28kg</td>
<td></td>
</tr>
<tr>
<td>CTJ35</td>
<td>35mm²</td>
<td>7/ ø 2.50mm</td>
<td>0.38kg</td>
<td></td>
</tr>
<tr>
<td>CTJ50</td>
<td>50mm²</td>
<td>7/ ø 3.00mm</td>
<td>0.40kg</td>
<td></td>
</tr>
<tr>
<td>CTJ70</td>
<td>70mm²</td>
<td>7/ ø 3.50mm</td>
<td>0.65kg</td>
<td></td>
</tr>
<tr>
<td>CTJ95</td>
<td>95mm²</td>
<td>7/ ø 4.20mm</td>
<td>0.89kg</td>
<td></td>
</tr>
<tr>
<td>CTJ120</td>
<td>120mm²</td>
<td>7/ ø 4.70mm</td>
<td>1.10kg</td>
<td></td>
</tr>
<tr>
<td>CTJ150</td>
<td>150mm²</td>
<td>7/ ø 5.20mm</td>
<td>1.25kg</td>
<td></td>
</tr>
<tr>
<td>CTJ185</td>
<td>185mm²</td>
<td>7/ ø 5.80mm</td>
<td>1.68kg</td>
<td></td>
</tr>
<tr>
<td>CTJ240</td>
<td>240mm²</td>
<td>7/ ø 4.00mm</td>
<td>1.97kg</td>
<td></td>
</tr>
</tbody>
</table>

General packing: 100 meters/roll. Special packing: 1000 meters or more.

---

**Note**: Thickness of copper layer is not less than 1000 microns.
## TTD Series Insulation Piercing

### Technical Data

<table>
<thead>
<tr>
<th>Type</th>
<th>Applicable conductor range</th>
<th>Bolt Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Main line section</td>
<td>Branch line section</td>
</tr>
<tr>
<td>TTD-121F</td>
<td>25-95mm²</td>
<td>2.5-25mm²</td>
</tr>
<tr>
<td>TTD-151F</td>
<td>25-95mm²</td>
<td>2.5(6-35)mm²</td>
</tr>
<tr>
<td>TTD-201F</td>
<td>35-95mm²</td>
<td>25-95mm²</td>
</tr>
<tr>
<td>TTD-281F</td>
<td>50-95mm²</td>
<td>2.5-(6-35)mm²</td>
</tr>
<tr>
<td>TTD-301F</td>
<td>25-95mm²</td>
<td>25-95mm²</td>
</tr>
<tr>
<td>TTD-451F</td>
<td>185-70mm²</td>
<td>185-70mm²</td>
</tr>
<tr>
<td>TT2D82F</td>
<td>25-95mm²</td>
<td>2*(2.5-3.5)mm²</td>
</tr>
</tbody>
</table>
Tele-Communications

Hanger Bolt
10mm
Forged Steel Dipped
Galvanised

Pigtail Nut
Galvanised Mild Steel

Double Hanger Bolt
10mm
Forged Steel Dipped
Galvanised

Assembly
Forged Steel Dipped
Galvanised

Mono Pole Bracket
5KN
Galvanised Mild Steel
Code - PO/HOOK/NOMO

Pigtail Coach Screw
Forged Steel Dipped
Galvanised

Pigtail Bolt Assembly
Forged Steel Dipped
Galvanised
Formed Wire Products

**Twin Ties**
D-DT- 3081
Used On top of line Post
Aluminum
Code - ATT

**Guy Grip Dead End**
D-DT- 3069
Used with the stay Assembly
Various Stay Sizes Available
Aluminum
Code - GSDE

**Double Wrap Guy Grip**
D-DT- 5KN
Galvanised Steel
Code - PO/HOOK/NOMO

**Vine Line**
D-DT-
Double wrap grip
Galvanised Steel
Code - VWDG

**Stay Dead End ABC**
D-DT-
Used For straining ABC
Aluminum
Code - ABDE 35
Code - ABDE 50

**Galvanised Side Ties**
D-DT- 3080
Various Conductor Ranges Available
Aluminum
Code - GSST

**Wrap Lock Ties**
Galvanised Steel
Code - AWT

**Armor Rods**
D-DT- 3064
Used For ProtectionWhen using a Cradle suspension
Various Conductor Ranges
Galvanised Mild Steel
Code - AAR1441/1508, AAR249, AAR330, AAR396, AAR432, AAR558, AAR625, AAR741-782, AAR924, AAR930-976
### STAYWIRE

<table>
<thead>
<tr>
<th>Pole Top Make off - PT / Part No.</th>
<th>Stay dead-end grips - GSDE / Part No.</th>
<th>Colour Code</th>
<th>Breaking Strength (Kn)</th>
<th>Staywire Size Constr.</th>
<th>Dia. (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT 284</td>
<td>GSDE 284</td>
<td>White</td>
<td>29.1</td>
<td>3 x 10 swg</td>
<td>7.35</td>
</tr>
<tr>
<td>PT 312</td>
<td>GSDE 312</td>
<td>Brown</td>
<td>42.5</td>
<td>7 x 12 swg</td>
<td>8.13</td>
</tr>
<tr>
<td>PT 345</td>
<td>GSDE 345</td>
<td>Red</td>
<td>41.5</td>
<td>3 x 8 swg</td>
<td>8.79</td>
</tr>
<tr>
<td>PT 396</td>
<td>GSDE 396</td>
<td>Blue</td>
<td>67.9</td>
<td>7 x 10 swg</td>
<td>10.23</td>
</tr>
<tr>
<td>PT 432</td>
<td>GSDE 432</td>
<td>Brown</td>
<td>69.1</td>
<td>5 x 8 swg</td>
<td>11.02</td>
</tr>
<tr>
<td>PT 480</td>
<td>GSDE 480</td>
<td>Green</td>
<td>96.8</td>
<td>7 x 8 swg</td>
<td>12.24</td>
</tr>
<tr>
<td>PT 520</td>
<td>GSDE 520</td>
<td>Orange</td>
<td>115</td>
<td>19 x 12 swg</td>
<td>13.55</td>
</tr>
<tr>
<td>PT 800</td>
<td>GSDE 800</td>
<td>Yellow</td>
<td>242</td>
<td>19 x 8 swg</td>
<td>20.00</td>
</tr>
</tbody>
</table>

### VARIOUS PRE FORMED WIRE GRIPS

<table>
<thead>
<tr>
<th>Galvanised side ties - GSST / Part No.</th>
<th>Galvanised Twin ties - ATT / Part No.</th>
<th>Wraplock ties - AWT / Part No.</th>
<th>Alum. Alloy Conductor Dead end - ADE / Part No.</th>
<th>Armor Rods - AAR / Part No.</th>
<th>Colour code</th>
<th>Common Conductors</th>
</tr>
</thead>
<tbody>
<tr>
<td>GSST 249</td>
<td>ATT 249</td>
<td>AWT 249</td>
<td>DGDE 250</td>
<td>AAR 249</td>
<td>Orange</td>
<td>Magpie</td>
</tr>
<tr>
<td>GSST 249</td>
<td>ATT 249</td>
<td>AWT 249</td>
<td>DGDE 249</td>
<td>AAR 249</td>
<td>Orange</td>
<td>Squirrel</td>
</tr>
<tr>
<td>GSST 280</td>
<td>ATT 280</td>
<td>AWT 280</td>
<td>DGDE 280</td>
<td>AAR 280</td>
<td>Yellow</td>
<td>Gopher</td>
</tr>
<tr>
<td>GSST 330</td>
<td>ATT 330</td>
<td>AWT 330</td>
<td>DGDE 330</td>
<td>AAR 330</td>
<td>Blue</td>
<td>Fox</td>
</tr>
<tr>
<td>GSST 354</td>
<td>ATT 354</td>
<td>AWT 354</td>
<td>DGDE 354/366/348</td>
<td>AAR 354/348</td>
<td>Green</td>
<td>Ferret/Ant/Fir</td>
</tr>
<tr>
<td>GSST 396</td>
<td>ATT 396</td>
<td>AWT 396</td>
<td>DGDE 396</td>
<td>AAR 390/396</td>
<td>Yellow</td>
<td>Hazel/Rabbit</td>
</tr>
<tr>
<td>GSST 432</td>
<td>ATT 432</td>
<td>AWT 432</td>
<td>DGDE 432</td>
<td>AAR 432</td>
<td>Red</td>
<td>Mink</td>
</tr>
<tr>
<td>GSST 520</td>
<td>ATT 520</td>
<td>AWT 520</td>
<td>DGDE 520</td>
<td>AAR 520</td>
<td>Black</td>
<td>Wasp</td>
</tr>
<tr>
<td>GSST 558</td>
<td>ATT 558</td>
<td>AWT 558</td>
<td>DGDE 558</td>
<td>AAR 558/549</td>
<td>Brown</td>
<td>Hare/Oak/Dog</td>
</tr>
<tr>
<td>GSST 714</td>
<td>ATT 714</td>
<td>AWT 714</td>
<td>DGDE 714</td>
<td>AAR 714</td>
<td>White</td>
<td>Wolf</td>
</tr>
<tr>
<td>GSST 924</td>
<td>ATT 924</td>
<td>AWT 924</td>
<td>DGDE 924</td>
<td>AAR 924</td>
<td>Orange</td>
<td>Bear</td>
</tr>
</tbody>
</table>

### Stay Strain Insulators

#### PORCELAIN STRAIN & STAY TYPE INSULATORS

<table>
<thead>
<tr>
<th>Type No.</th>
<th>Dimensions (mm)</th>
<th>Electrical Characteristics</th>
<th>Packing</th>
<th>LORENZ EQUIV.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
</tr>
<tr>
<td>21 - 1354</td>
<td>78</td>
<td>35</td>
<td>25</td>
<td>44</td>
</tr>
<tr>
<td>21 - 1075</td>
<td>95</td>
<td>57</td>
<td>37</td>
<td>50</td>
</tr>
<tr>
<td>21 - 0522</td>
<td>136</td>
<td>85</td>
<td>60</td>
<td>62</td>
</tr>
<tr>
<td>21 - 0521</td>
<td>190</td>
<td>85</td>
<td>60</td>
<td>72</td>
</tr>
<tr>
<td>Code Name</td>
<td>English</td>
<td>Copper mm²</td>
<td>Standing %</td>
<td>Overall mm</td>
</tr>
<tr>
<td>-----------</td>
<td>---------</td>
<td>------------</td>
<td>------------</td>
<td>------------</td>
</tr>
<tr>
<td>ACSR</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code Name</th>
<th>English</th>
<th>Copper mm²</th>
<th>Standing %</th>
<th>Overall mm</th>
<th>Area mm²</th>
<th>Diameter mm</th>
<th>Overall</th>
<th>Standing</th>
<th>Copper mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACSR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Aluminum Conductors - AAAC**

<table>
<thead>
<tr>
<th>Code Name</th>
<th>English</th>
<th>Copper mm²</th>
<th>Standing %</th>
<th>Overall mm</th>
<th>Area mm²</th>
<th>Diameter mm</th>
<th>Overall</th>
<th>Standing</th>
<th>Copper mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAAC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Aluminum Conductors Steel Reinforced - ACSR**

<table>
<thead>
<tr>
<th>Code Name</th>
<th>English</th>
<th>Copper mm²</th>
<th>Standing %</th>
<th>Overall mm</th>
<th>Area mm²</th>
<th>Diameter mm</th>
<th>Overall</th>
<th>Standing</th>
<th>Copper mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACSR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Steel Reinforced Conductors - ACSR**

<table>
<thead>
<tr>
<th>Code Name</th>
<th>English</th>
<th>Copper mm²</th>
<th>Standing %</th>
<th>Overall mm</th>
<th>Area mm²</th>
<th>Diameter mm</th>
<th>Overall</th>
<th>Standing</th>
<th>Copper mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACSR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Aluminum Conductors - AAAC**

<table>
<thead>
<tr>
<th>Code Name</th>
<th>English</th>
<th>Copper mm²</th>
<th>Standing %</th>
<th>Overall mm</th>
<th>Area mm²</th>
<th>Diameter mm</th>
<th>Overall</th>
<th>Standing</th>
<th>Copper mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAAC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Aluminum Conductors Steel Reinforced - ACSR**

<table>
<thead>
<tr>
<th>Code Name</th>
<th>English</th>
<th>Copper mm²</th>
<th>Standing %</th>
<th>Overall mm</th>
<th>Area mm²</th>
<th>Diameter mm</th>
<th>Overall</th>
<th>Standing</th>
<th>Copper mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACSR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Steel Reinforced Conductors - ACSR**

<table>
<thead>
<tr>
<th>Code Name</th>
<th>English</th>
<th>Copper mm²</th>
<th>Standing %</th>
<th>Overall mm</th>
<th>Area mm²</th>
<th>Diameter mm</th>
<th>Overall</th>
<th>Standing</th>
<th>Copper mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACSR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Aluminum Conductors - AAAC**

<table>
<thead>
<tr>
<th>Code Name</th>
<th>English</th>
<th>Copper mm²</th>
<th>Standing %</th>
<th>Overall mm</th>
<th>Area mm²</th>
<th>Diameter mm</th>
<th>Overall</th>
<th>Standing</th>
<th>Copper mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAAC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Aluminum Conductors Steel Reinforced - ACSR**

<table>
<thead>
<tr>
<th>Code Name</th>
<th>English</th>
<th>Copper mm²</th>
<th>Standing %</th>
<th>Overall mm</th>
<th>Area mm²</th>
<th>Diameter mm</th>
<th>Overall</th>
<th>Standing</th>
<th>Copper mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACSR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Steel Reinforced Conductors - ACSR**

<table>
<thead>
<tr>
<th>Code Name</th>
<th>English</th>
<th>Copper mm²</th>
<th>Standing %</th>
<th>Overall mm</th>
<th>Area mm²</th>
<th>Diameter mm</th>
<th>Overall</th>
<th>Standing</th>
<th>Copper mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACSR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Aluminum Conductors - AAAC**

<table>
<thead>
<tr>
<th>Code Name</th>
<th>English</th>
<th>Copper mm²</th>
<th>Standing %</th>
<th>Overall mm</th>
<th>Area mm²</th>
<th>Diameter mm</th>
<th>Overall</th>
<th>Standing</th>
<th>Copper mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAAC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Aluminum Conductors Steel Reinforced - ACSR**

<table>
<thead>
<tr>
<th>Code Name</th>
<th>English</th>
<th>Copper mm²</th>
<th>Standing %</th>
<th>Overall mm</th>
<th>Area mm²</th>
<th>Diameter mm</th>
<th>Overall</th>
<th>Standing</th>
<th>Copper mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACSR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Steel Reinforced Conductors - ACSR**

<table>
<thead>
<tr>
<th>Code Name</th>
<th>English</th>
<th>Copper mm²</th>
<th>Standing %</th>
<th>Overall mm</th>
<th>Area mm²</th>
<th>Diameter mm</th>
<th>Overall</th>
<th>Standing</th>
<th>Copper mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACSR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Aluminum Conductors - AAAC**

<table>
<thead>
<tr>
<th>Code Name</th>
<th>English</th>
<th>Copper mm²</th>
<th>Standing %</th>
<th>Overall mm</th>
<th>Area mm²</th>
<th>Diameter mm</th>
<th>Overall</th>
<th>Standing</th>
<th>Copper mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAAC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Aluminum Conductors Steel Reinforced - ACSR**

<table>
<thead>
<tr>
<th>Code Name</th>
<th>English</th>
<th>Copper mm²</th>
<th>Standing %</th>
<th>Overall mm</th>
<th>Area mm²</th>
<th>Diameter mm</th>
<th>Overall</th>
<th>Standing</th>
<th>Copper mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACSR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Steel Reinforced Conductors - ACSR**

<table>
<thead>
<tr>
<th>Code Name</th>
<th>English</th>
<th>Copper mm²</th>
<th>Standing %</th>
<th>Overall mm</th>
<th>Area mm²</th>
<th>Diameter mm</th>
<th>Overall</th>
<th>Standing</th>
<th>Copper mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACSR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Safety Earthing Equipment

**Line End Clamp**
0.65 kg 17500 amps  
Clamping range 6.4 - 338 mm  
spindle type - B or D  
Aluminium Alloy  
Code - S9 - D

**Snap On Grounding Clamp**
0.7 kg 25000 Amps  
Clamping range 4 - 30 mm  
spindle type - ring type  
High Tensile Aluminium  
Code - G3622-1

**C-Type Grounding Clamp**
0.59 kg 18500 amps  
Clamping range 2 - 50 mm  
spindle type - ring type  
High Tensile Aluminium  
Code - C3605 - 1

**Phase Screw Clamp**
23500 amps  
Clamping range 5 - 26 mm  
spindle type - din  
Forged Aluminium  
Code - 363 178 178

**All Angle Earth Clamp**
1.5 kg 0.9 kg 30 000 amps  
Clamping range 6 - 74 mm  
6 - 30 mm  
spindle type - heavy ring type  
High Tensile Aluminium  
Code - G4228 -10 SJ  
Code - G4229-1SJ*

**Phase Screw Clamp**
23500 amps  
Clamping range 5 - 42 mm  
spindle type - din  
Cast Aluminium  
Code - 363 245 003

**414 Earthing Clamp**
0.59 kg 18500 amps  
Clamping range 2 - 20 mm  
spindle type - t-bar handle  
High Strength Forged Brass  
Code - 360 414 414l

**Earthing Kit**
10KA/1 Second  
Typically used for earthing reticulation lines.  
Code - EA KIT
### Tools

**Earth Rod**  
D-DT- 3091  
Used for Earthing  
Various sizes available  
M10, M12, M16  
Copper  
Code - ER

**Earth Rod Clamp**  
D-DT- 3093  
Used for the Earthing of Earth Rods  
Solid Brass  
Code - ERCLAMP

**Pole Box**  
D-DT- 3055  
Low Voltage  
Pole Boxes  
Various Ranges Available  
Copper Cable, Fiber Box  
Code - 1-2 Way  
Code - 2-4 Way  
Code - 4-8 Way

**Line Tap**  
D-DT- 3048  
Split Bolt Connector  
Brass Connector

**Leaver Hoist**  
750, 1500 & 3000KG  
3 Meter Standard Chain lengths  
C/W Test Certificates  
Code - LH1.5I  
Code - LH3I  
Code - LH4I

**Bandit Tool**  
D-DT- 3050  
Used For Climb Brackets

**Phase Separators**  
Used for the separation of ABC Conductors  
Plastic

**Linesman Safety Harness**  
D-DT- 1270  
Double Lynyard SABS Approved  
Polypropylene Webbing  
Code - LSBL

**L - 1**  
Overhead cable pulleys  
Cast Aluminium

**L - 2**  
Overhead cable pulleys  
Cast Aluminium
**Tools**

**A - 1**
Overhead cable pulleys
Cast Aluminium
Code -

**A - 2**
Overhead cable pulleys
Cast Aluminium
Code -

**Insulation Gloves**
Various Sizes
Rubber
Class 00, Class 0, Class 1, Class 2, Class 3, Class 4

**Climbing Shoes (AL)**
Aluminium
Code - CI

**Climbing Shoes (STEEL)**
Steel & Leather
Code - CL/STRAPS

**Underground Cable Layer**
Used for laying cables underground
Cast Aluminium
Code - CABR

**Pole Safety Belt**
D-DT- 1270
SABS Approved Lines Man Belt
Polypropylene webbing
Code - LSB/HOOK

**NGK Camelong**
Wire rope clamp for various types of conductors
Code - NGK4 - 22MM - 2TON
Code - NGK16 - 32MM - 3TON
Code - NGK20 - 35MM - 4TON

**Heavey Duty Petrol Drill**
Petrol Drill
18MM Bits
22MM Bits

**ABC Grip**
4 x 35 - 4 x 95 MM
Come Along Clamps / Cu
Come Along Clamps / Al
Shifting Spanners
ABC Nylon Slings
ABC Pulling Swivels
A / Extensions Ladders
Fibre Glass Extension Ladders
Angle Grinders
Bowsaws
Bandit Tools
Cable Cutters
Cane Knives
Climbing Irons
Cobbler Knives
Safety Cones
Al Conductor Running out blocks
Chain Slings
Drill Bits
Digbars
Generator Sets
Leather Wrist Gloves
Hacksaws
Crimping Tools
Drilling Machines
Cable Jacks 4 Ton - 10 Ton
Spirit Levels
Leaver Hoisrs 0.5 Ton - 5 Ton
Link Sticks
Lead Meter Seals
L / Mens Saftey Belts
Lead Seal Pilers
Manila Ropes
Modiewark Test Lamps
Mulepower Tool Sets Completes
Nico Press Crimping Tools
  Lead Dressers
  Lead Hacking Knives
  Pulling Grips
  Pick Handles - Elephant
  Pick Heads SG Iron
  Rain Gauges Plastic
  Pole Stampers
  ABC Running Out Blocks
  Screwdrivers
  Scotch Eye Augers
  Round Nose Shovels
  Stanley Blades
  Stanley Knives
  T606 Phase Rotation Meters
  Thermometeres
  25 - 40ft Telescopic Link Sticks
  Toolboxes
  Link Stick Tree Pruners
  Viro Locks
  Spirit Levels
  Webbing Slings
  G10 / Y35 Crimping Tools and Dies
  Hard Hats
  Aircraft
  Warning Spheres
  Rotosure Measuring Wheels
  NGK Wire Grips 04 - 20 mm
  NGK French Covered ABC 05 - 22 mm
  MT004 Duspol Testers
  MT877 Mult Meters
Durban
61 Moreland Drive
Redhill Industry Park,
Durban North,
South Africa 4001
Tel +27 (31) 569 1242

Cape Town
52 Icon Business Park
Brackenfell, Cape Town,
South Africa 7560
Tel +27 (21) 981 4462

Gauteng
4 Indiana Street Apex
Benoni Brakpan 1540,
Brakpan Gauteng,
South Africa 1540
Tel +27 (11) 420 0363