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6.64BKA Range



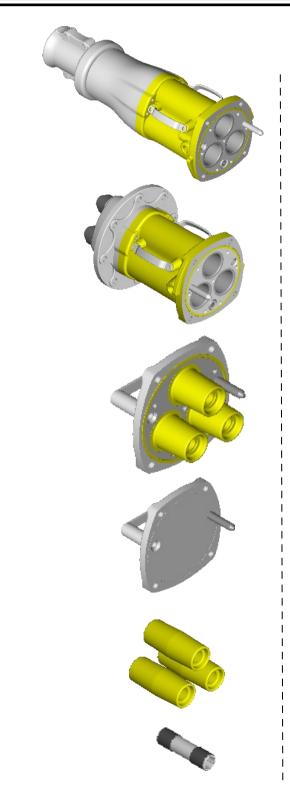


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High Voltage Cable Coupler System Technical Guide



Description: Half Coupler-Unarmoured Cable Rating: 6.6kV 800A Material: Aluminium Mass: 14kg LOA: 590mm Volume: 3.1 Litres

Description: Adaptor – Gear Mount Rating: 6.6kV 800A Material: Aluminium Mass: 14kg LOA: 405mm Volume: 3.1 Litres

Stock No: RS441 Description: Insulated End Cover Rating: 6.6kV 800A Material: Aluminium Mass: 5kg

Stock No: RS440 Description: Cast Protection Cover Rating: 6.6kV 800A Material: Aluminium Mass: 3kg

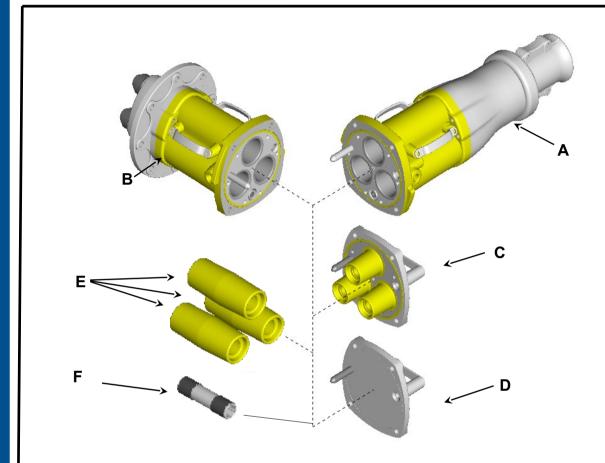
Stock No: RS283 Description: Phase Connectors Rating: 6.6kV 800A

Stock No: RS117 Description: Earth Pilot Connector

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High Voltage Cable Coupler System Stock Selection Guide – 6.6kV 800A



| | Description | Stock No. | Page |
|---|---|-----------|------|
| A | Half Coupler – Unarmoured Cable | | 3 |
| В | Adaptor – Gear Mount | | 3 |
| с | Insulated End Cover | RS441 | 5 |
| D | Cast Protection Cover | RS440 | 6 |
| E | Phase Connectors (3 required per join) | RS283 | |
| F | Earth Pilot Connector (1 required per join) | RS117 | |

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|--------|-----------|------------|---|
| | | | |

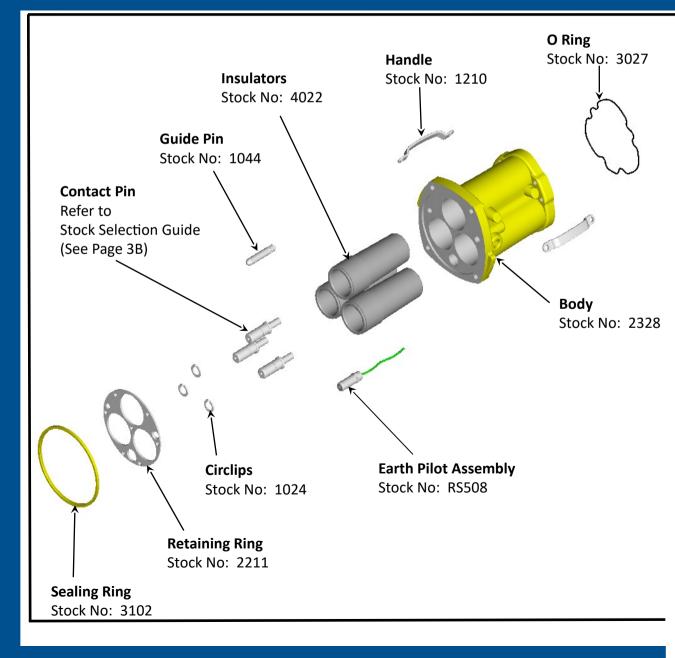
High Voltage Cable Coupler System Cable and Gear Mount Equipment

| | | | | | | 1 | | | | |
|--|--------------------|-----------------------------|----------------|-----|-------------------|----------------|--|--|--|--|
| | Si | Size 1 Trailing Cable Gland | | | | | | | | |
| | | | | C | Cable OD | Stock No | | | | |
| | Q | 90mm | RS201 | | | | | | | |
| | | 35mm | RS200 | | | | | | | |
| | 8 | 30mm | RS199 | | | | | | | |
| | 7 | 75mm | RS198 | | | | | | | |
| | | 70mm | RS197 | | | | | | | |
| 6.6kV Gear M | | 65mm | RS196 | | | | | | | |
| Stock No: RS1 | | 60mm | RS195 | | | | | | | |
| 、 、 | | | | | 55mm | RS194 | | | | |
| | | 50mm | RS426 | | | | | | | |
| | 4 | 15mm | RS425 | | | | | | | |
| 6 6 kV Contact Selection (Set of 2) | | | | | | | | | | |
| 6.6kV Contact Selection (Set of 3) Size Crimp Solder Size Crimp Solder | | | | | Cable OD Stock No | | | | | |
| | | - | | | | | | | | |
| 35mm RS566 RS673 | 150mm2 | RS670 | RS677 | 1 1 | 117mm 115mm | RS207 RS206 | | | | |
| | 185mm | RS571 | RS678 | 1 1 | 110mm | RS205 | | | | |
| 50mm RS567 RS674 | 1/1/10000 | RS628 | | | | | | | | |
| 70mm RS568 RS675 | 240mm | | RS630 | 1 1 | | | | | | |
| 70mmRS568RS67595mmRS569RS676 | 300mm ² | RS672 | RS630 RS679 | | 105mm | RS204 | | | | |
| 70mm RS568 RS675 | | | | | | | | | | |

High Voltage Cable Bolted Coupler Body Assembly 6.6kV

Technical Data

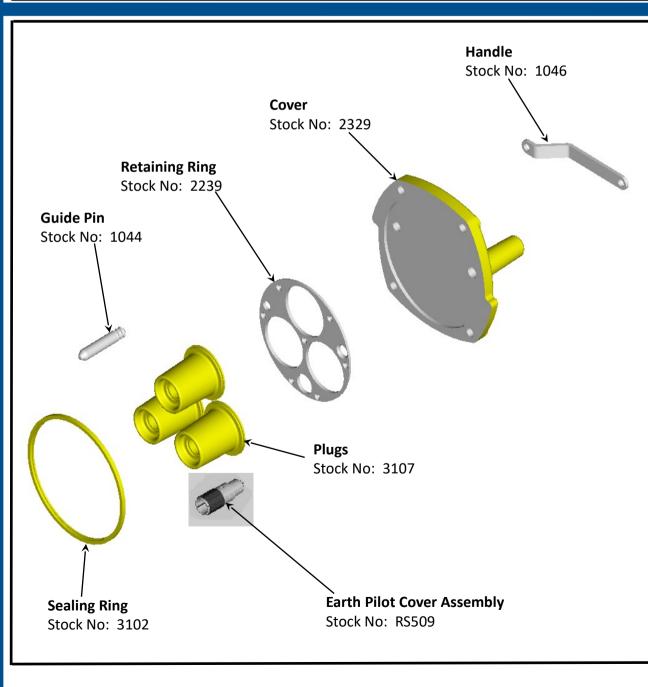
Stock No: RS444 – 6.6kV Aluminium Coupler Body Amps:800 Volts: 6600 Material: Aluminium





Technical Data

Stock No: RS441 – 6.6kV Insulated End Cover Amps: 800 Volts: 6600 Material: Aluminium

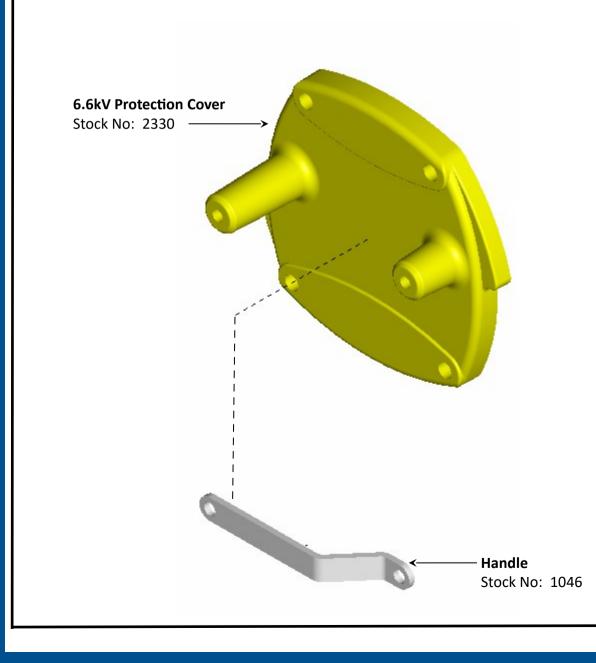


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Cast Protection Cover Assembly

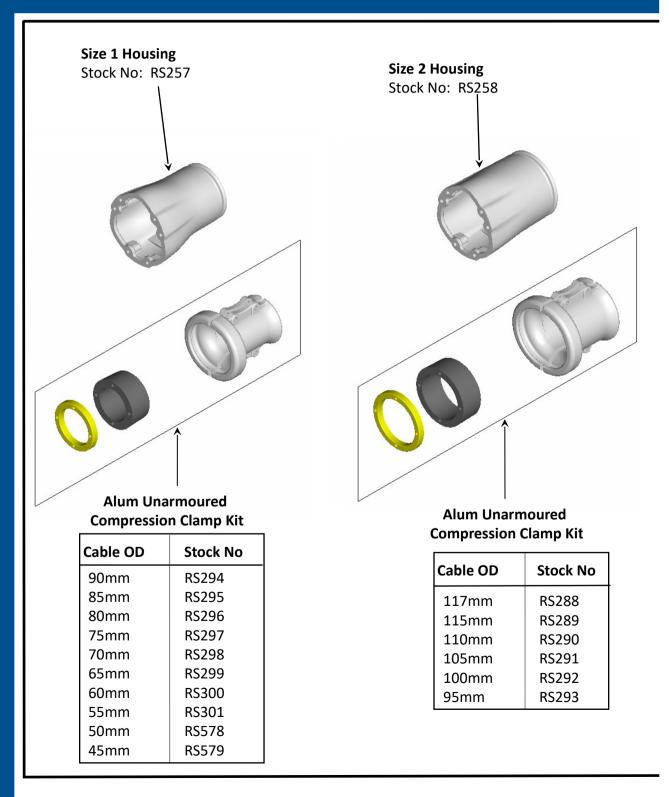
Technical Data

Stock No: RS440 – 6.6kV Cast Protection CoverAmps: 800Volts: 6600Material:Aluminium



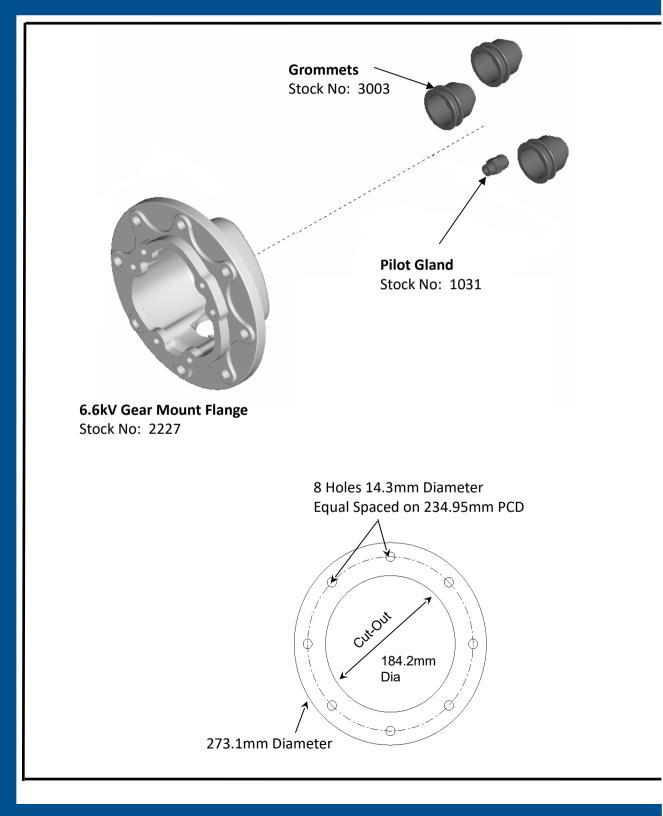


Unarmoured Gland Assembly



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Adaptor Gear Mount Flange Assembly

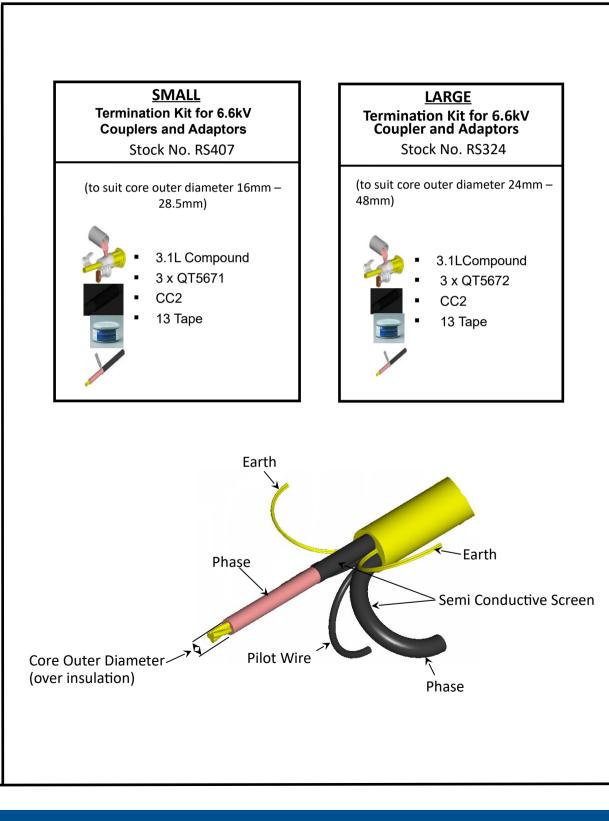




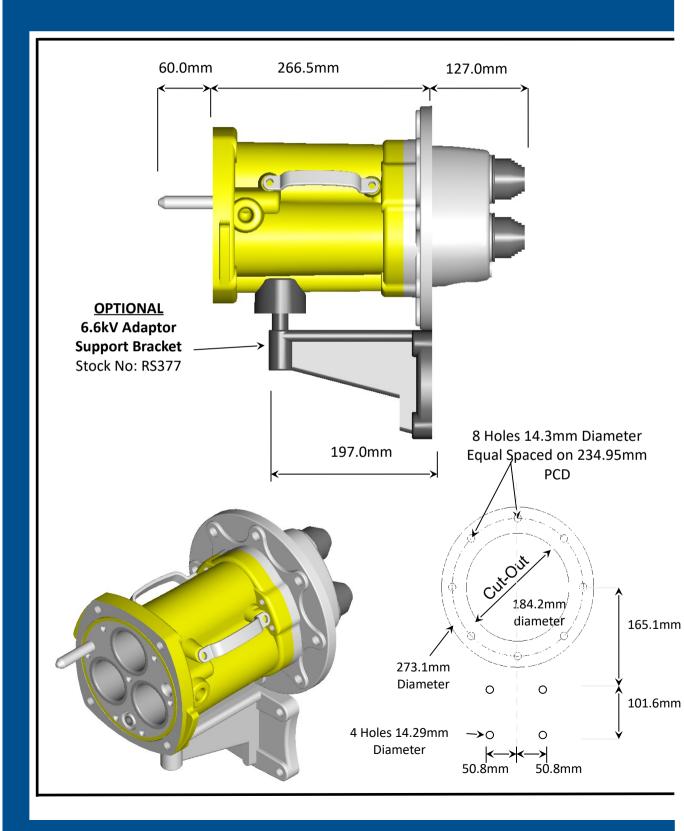
Tool Kits 11kV (4 bolt) **Connector Slide Hammer** Stock No. RS177 Stock No. RS558 2 x Spanner 16mm Used to insert and 1 x Slide Hammer extract connectors 1 x Earth Pilot Removal Tool 1 x Tool Box 15 x High Voltage **Cleaning Tissues** Example 11 kV Alignment StickS 6.6kV Testing connectors Stock No. RS436 Stock No. RS178 6 off phase connectors Phase guide stick set for fitted with HV leads assembly (3 included) ready for testing.

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Termination Kits for Unarmoured Cable







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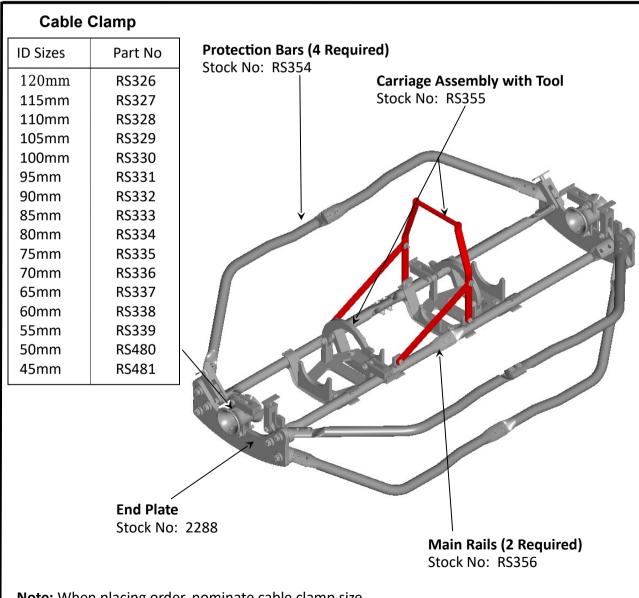
26/09/2022



Coupler Alignment Skid for 6.6kV Couplers

Technical Data

Part Number : RS626 Footprint: 1700mm x 950mm Coupler Height: 390mm Mass: 43 kg

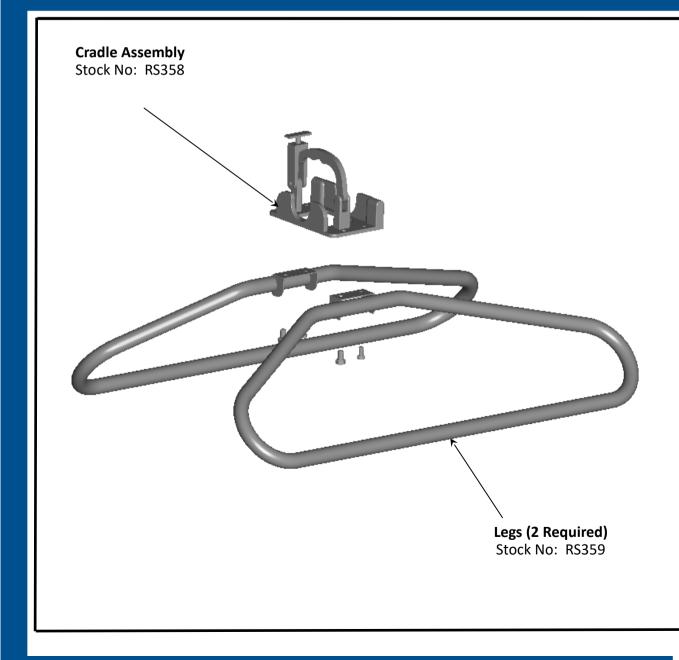


Note: When placing order, nominate cable clamp size.



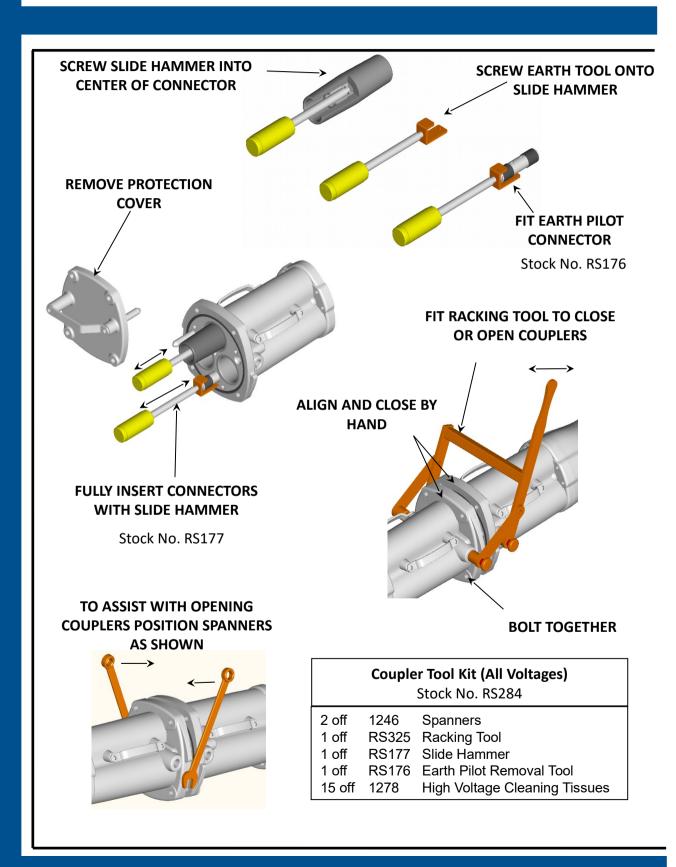
Technical Data

Model No: RS1010 Footprint: 1500mm x 950mm Coupler Height: 390mm Mass: 18 kg



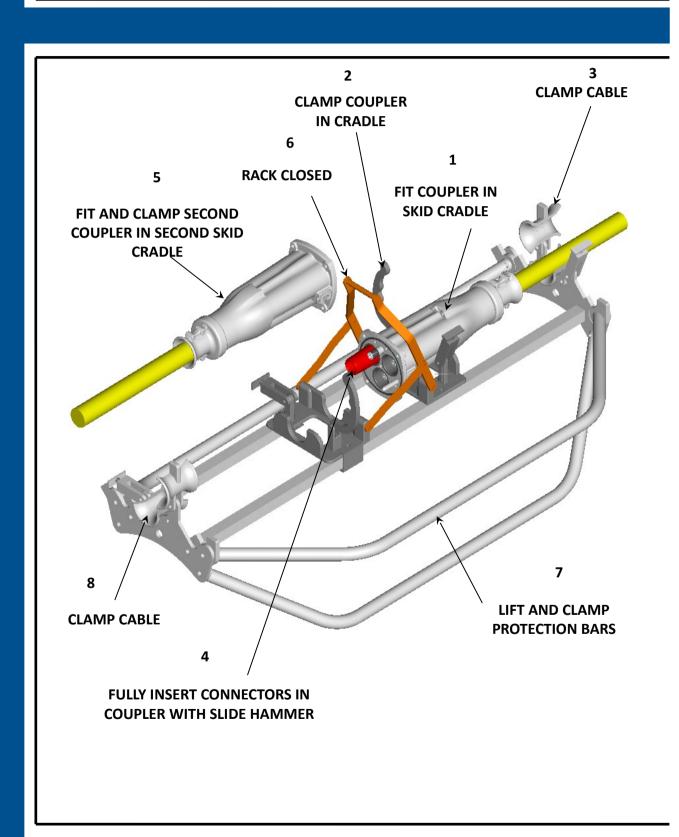


Inserting Connectors and Coupling Operation



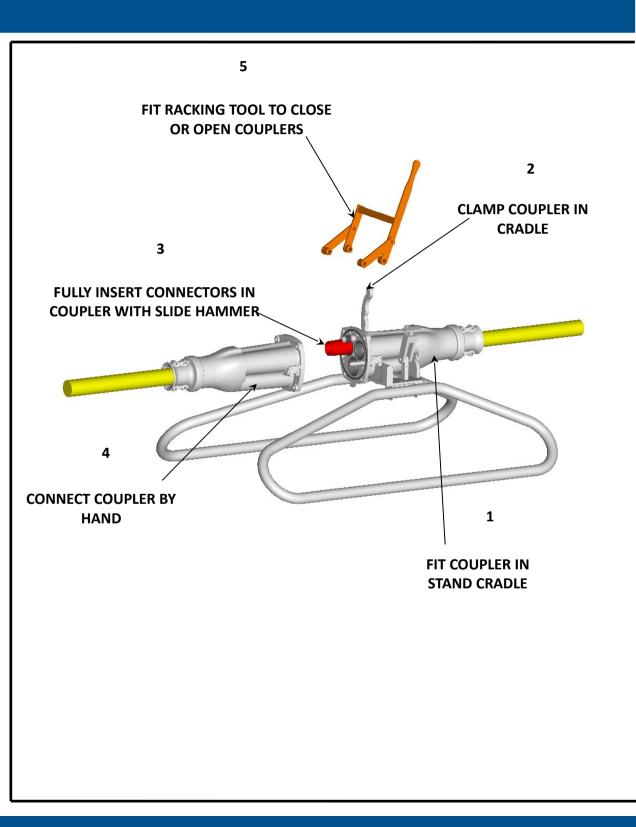


Alignment Skid Operations



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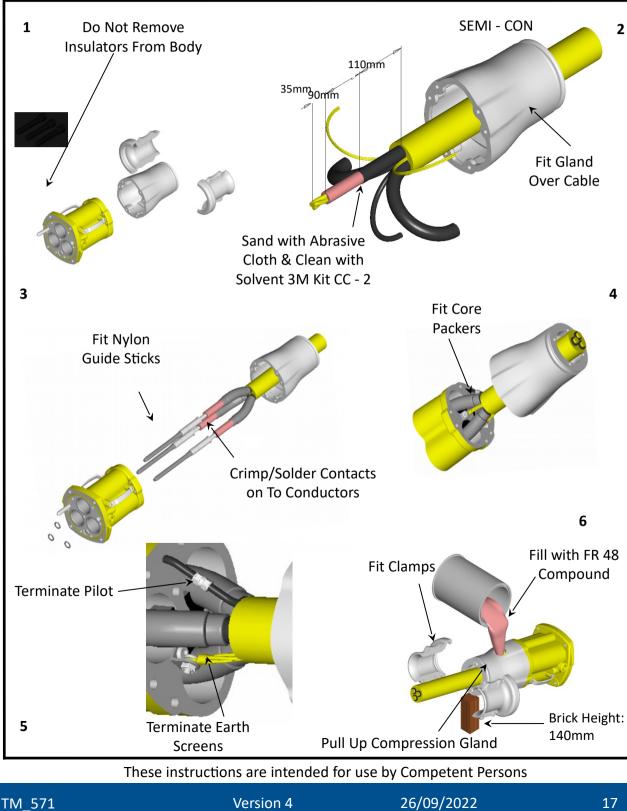
Stand Operations



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6.6kV 800A Half Coupler

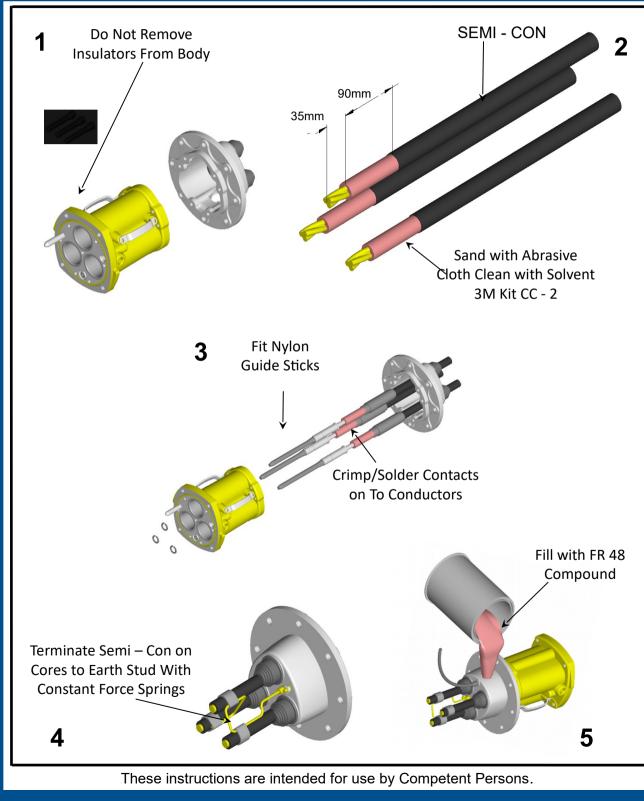
Termination Procedure for Unarmoured cable



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6.6kV 800A Gear Mount Adaptor

Termination Procedure for Adaptor

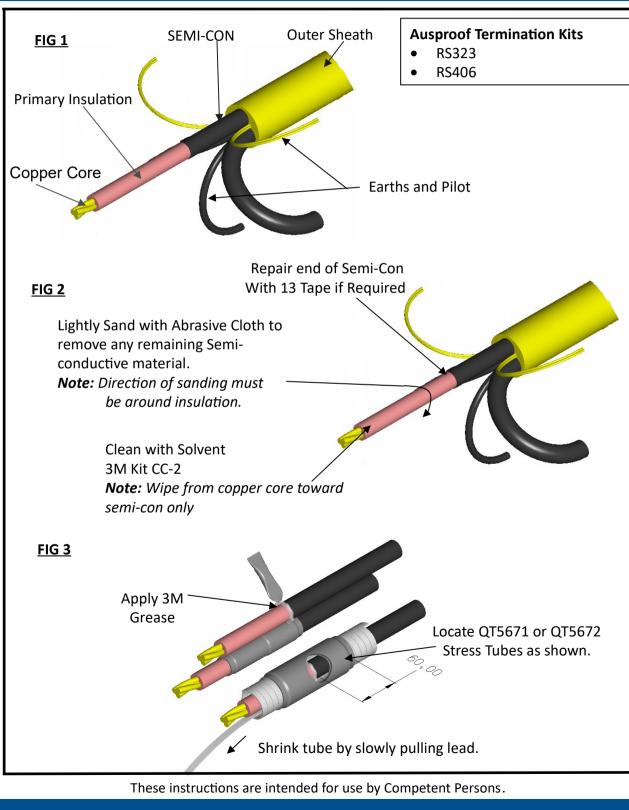


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High Voltage Stress Relief Instructions

6.6kV Unarmoured Cable





To ensure the safe operation of the mining couplers, personnel should be aware of minimal ongoing care and maintenance.

- When cables are not in use, ensure that a cast protection end
- cover is fitted that provides adequate sealing against moisture.
- Ensure that witness marks are brightly painted on the sheath,
- · located where the cable enters the gland. This needs to be
- routinely inspected to check if a gap appears between the end
- of the gland and the witness mark.
- A gap may indicate that the cable has been under tension
- and that the termination in the coupler may have moved.
- The coupler should never be used as a towing or anchor point.
- Ensure that the connector pins have firm contact pressure or grip on the male pin in the coupler. If grip/ pressure is loose then new connectors are required.
- Before bolting couplers together or before fitting an end cover, ensure that the face sealing ring is located correctly in the grove.
- On each occasion before the couplers are bolted together, inspect the male the male pin in the coupler for obvious signs of damage. Also inspect the location of the nylon locking circlip to ensure that it is evenly fitted onto the contact.
- If the circlip appears dislocated or damaged then repairs are necessary. This event indicates that the termination in the coupler has been under tension possibly as a result of handling.
- On regular intervals of us to 12 months, the tension on the gland housing compression ring needs to be maintained. This process requires that the cable clamp be removed and the four compression ring bolts tensioned.