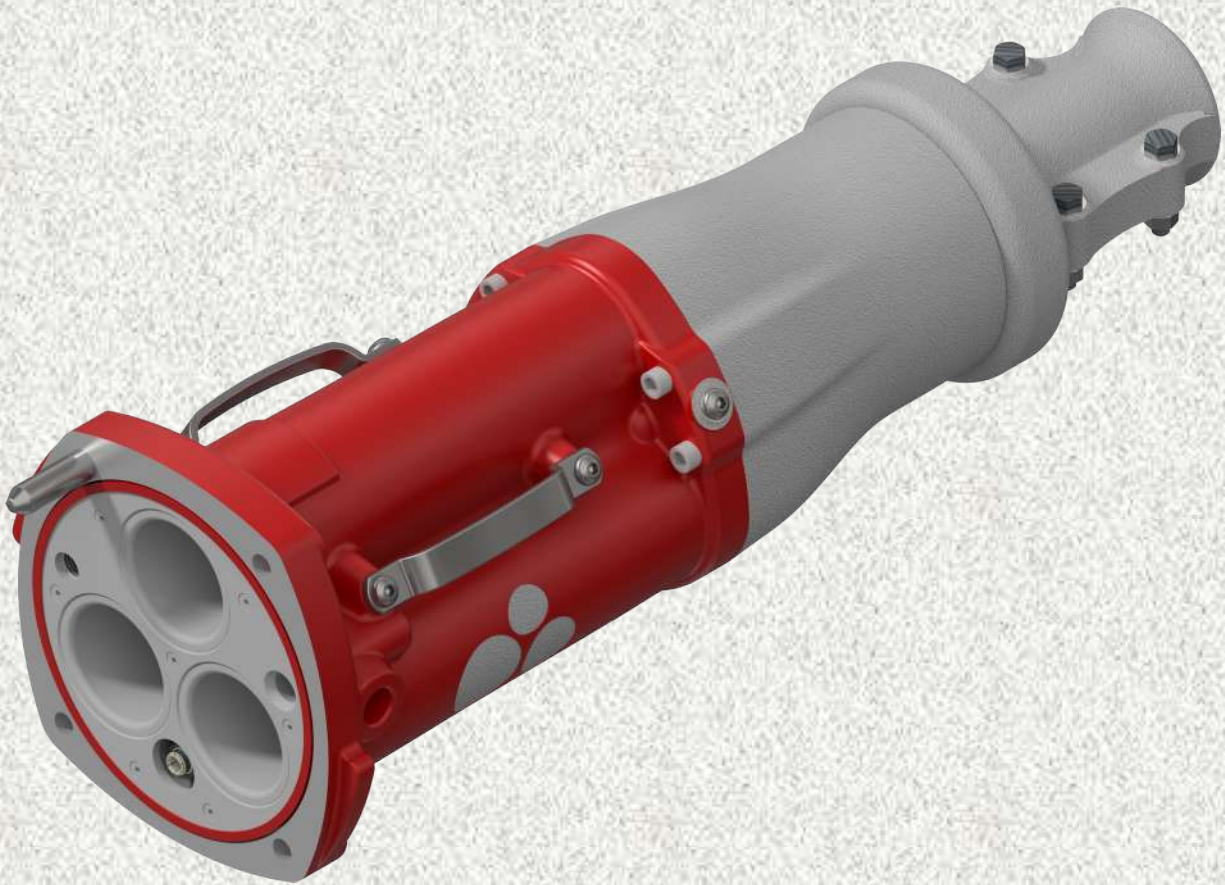




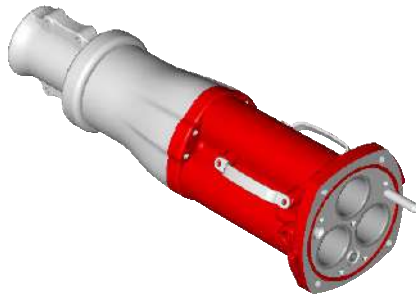
15KV 800 Amp KA Style Coupler 15KA Range



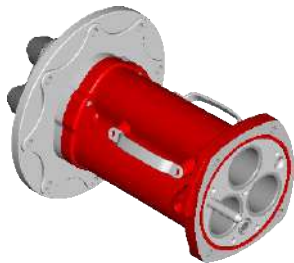
Pioneering the Difference.

High Voltage Cable Coupler System

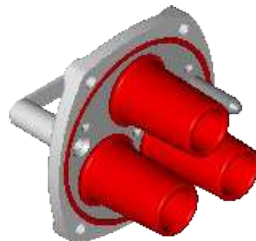
Technical Guide



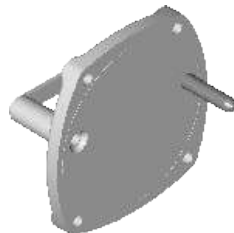
Stock No: (See page 3 for breakdown)
Description: Half Coupler – Unarmoured Cable
Rating: 15kV 800A
Material: Aluminium
LOA: 26 $\frac{3}{16}$ " (665mm)
Mass: 36 lbs (16kg)
Volume: 4.0 Litres



Stock No: (See page 3 for breakdown)
Description: Adaptor – Gear Mount
Rating: 15kV 800A
Material: Aluminium
LOA: 18 $\frac{7}{8}$ " (480mm)
Mass: 36 lbs (16kg)
Volume: 4.0 Litres



Stock No: RS844
Description: Insulated End Cover
Rating: 15kV 800A
Material: Aluminium
Mass: 11 lbs (5kg)



Stock No: RS850
Description: Cast Protection Cover
Rating: 15kV 800A
Material: Aluminium
Mass: 6.6 lbs (3kg)



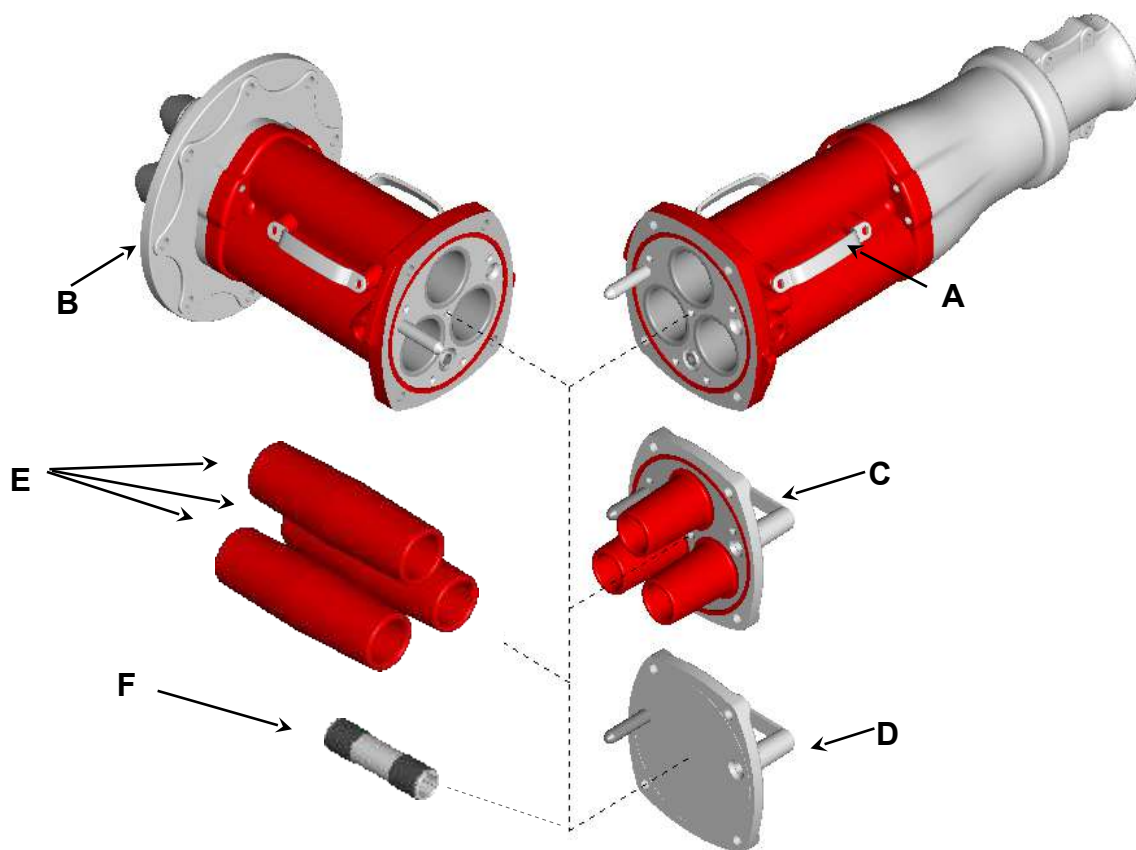
Stock No: RS112
Description: Phase Connectors
Rating: 15kV 800A



Stock No: RS117
Description: Earth Pilot Connector

High Voltage Cable Coupler System

Stock Selection Guide - 15kV 800A



	Description	Stock No.	Page
A	Half Coupler – Unarmoured Cable.....		(refer to page 3)
B	Adaptor – Gear Mount.....		(refer to page 3)
C	Insulated End Cover	RS844	(refer to page 8)
D	Cast Protection Cover	RS850	
E	Phase Connectors (3 required per join).....	RS112	
F	Earth Pilot Connector (1 required per join).....	RS117	

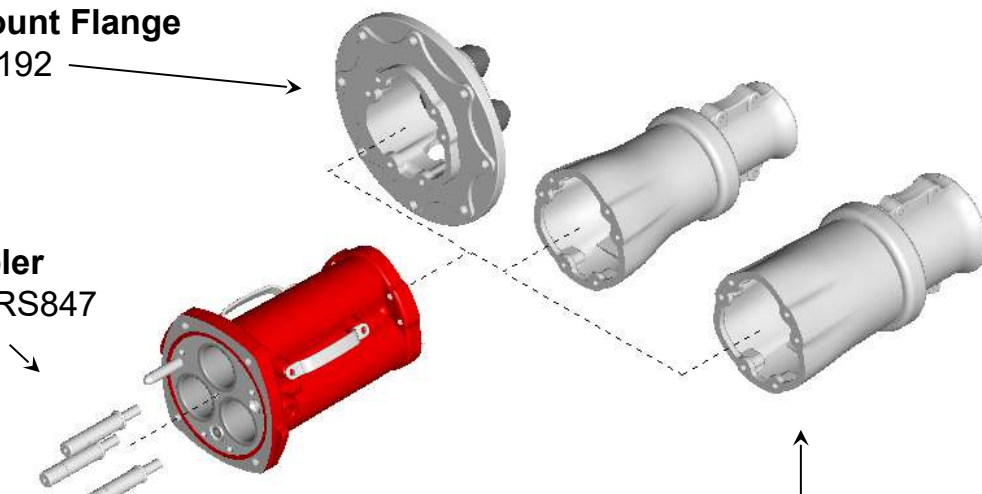
High Voltage Cable Coupler System Cable and Gear Mount Equipment

15kV Gear Mount Flange

Stock No: RS192

15kV Coupler

Stock No: RS847



Soldered Contact (Set of 3)

35mm sq	Stock No: RS067
50mm sq	Stock No: RS068
70mm sq	Stock No: RS069
95mm sq	Stock No: RS070
120mm sq	Stock No: RS071
150mm sq	Stock No: RS072
185mm sq	Stock No: RS073
240mm sq	Stock No: RS074
300mm sq	Stock No: RS075

Crimpable Contact (Set of 3)

25mm sq	Stock No. RS866
35mm sq	Stock No: RS076
50mm sq	Stock No: RS077
70mm sq	Stock No: RS078
95mm sq	Stock No: RS079
120mm sq	Stock No: RS080
150mm sq	Stock No: RS081
185mm sq	Stock No: RS082
240mm sq	Stock No: RS083
300mm sq	Stock No: RS084

Small Trailing Cable Gland

Cable OD	Stock No
3 1/2" (90mm)	RS201
3 3/8" (85mm)	RS200
3 1/8" (80mm)	RS199
2 15/16" (75mm)	RS198
2 3/4" (70mm)	RS197
2 9/16" (65mm)	RS196
2 3/8" (60mm)	RS195
2 1/8" (55mm)	RS194
1 31/32" (50mm)	RS426
1 25/32" (45mm)	RS425

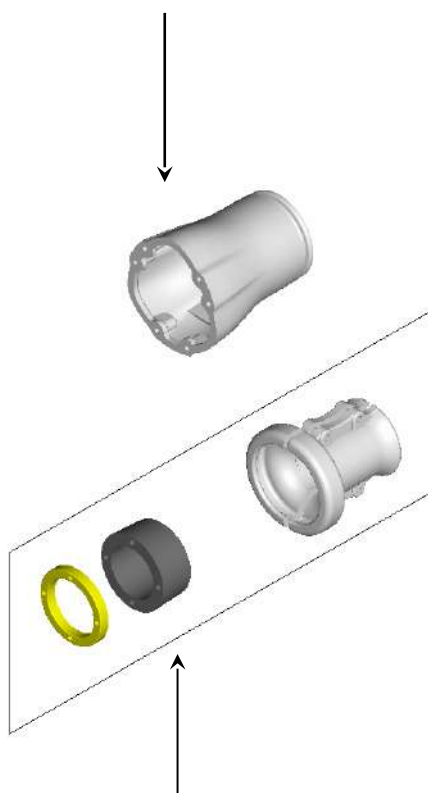
Large Trailing Cable Gland

Cable OD	Stock No
4 5/8" (117mm)	RS207
4 9/16" (115mm)	RS206
4 5/16" (110mm)	RS205
4 1/8" (105mm)	RS204
3 15/16" (100mm)	RS203
3 3/4" (95mm)	RS202

High Voltage Cable Bolted Coupler Unarmoured Gland Assembly

Size 1 Housing

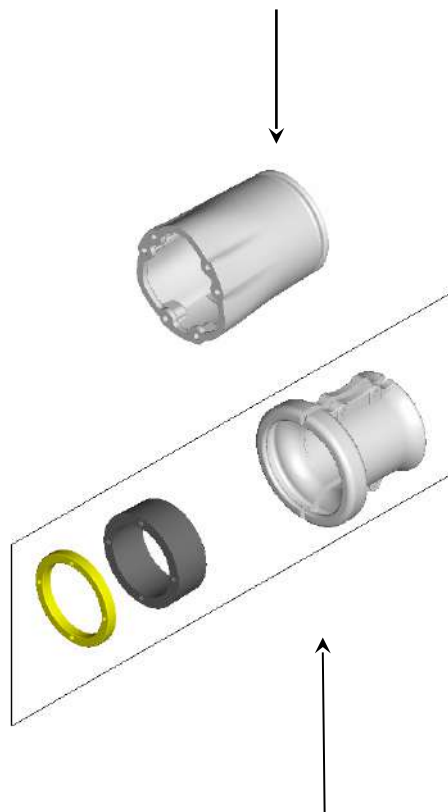
Stock No: RS257



Cable OD	Stock No
3 1/2" (90mm)	RS266
3 3/8" (85mm)	RS265
3 1/8" (80mm)	RS264
2 15/16" (75mm)	RS263
2 3/4" (70mm)	RS262
2 9/16" (65mm)	RS261
2 3/8" (60mm)	RS260
2 1/8" (55mm)	RS259
1 15/16" (50mm)	RS478
1 3/4" (45mm)	RS479

Size 2 Housing

Stock No: RS258



Cable ID	Stock No
4 5/8" (117mm)	RS272
4 9/16" (115mm)	RS271
4 5/16" (110mm)	RS270
4 1/8" (105mm)	RS269
3 15/16" (100mm)	RS268
3 3/4" (95mm)	RS267
4 15/16" (125mm)	RS910

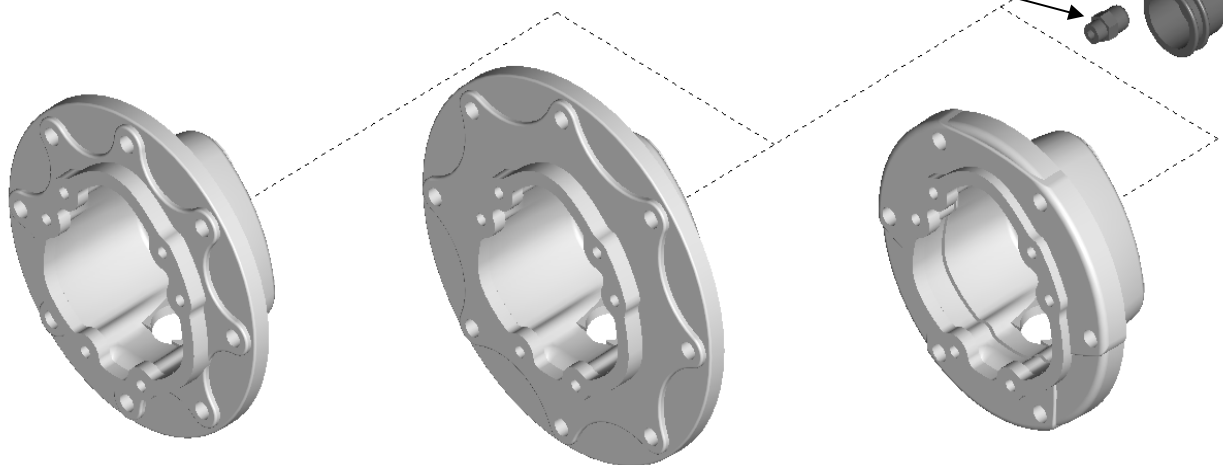
Adaptor Gear Mount Flange Assemblies

Grommets

Stock No: 3003

Pilot Gland

Stock No: 1031



Type A Gear Mount Flange

Stock No: 2227

Type B Gear Mount Flange

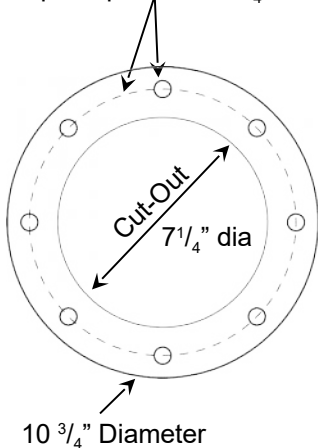
Stock No: 2228

Type C Gear Mount Flange

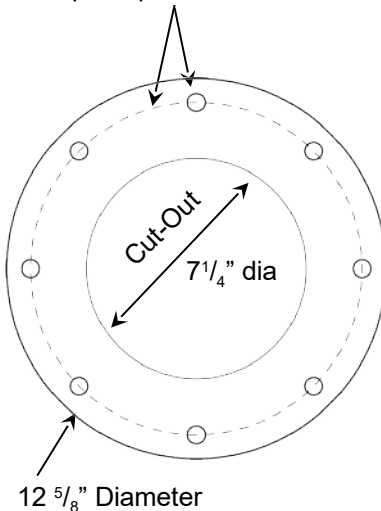
Stock No: 2229

(For Support Bracket see Page 9)

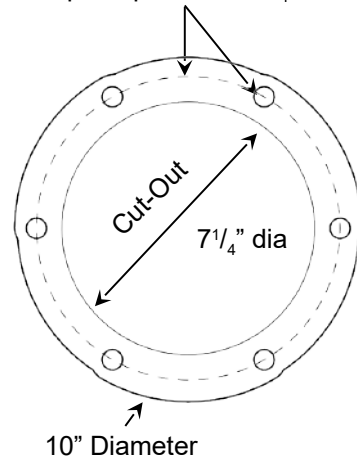
8 Holes $\frac{9}{16}$ " Diameter
Equal Spaced on $9\frac{1}{4}$ " PCD



8 Holes $\frac{9}{16}$ " Diameter
Equal Spaced on 11" PCD

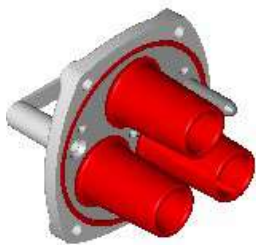


6 Holes $\frac{9}{16}$ " Diameter
Equal Spaced on $8\frac{3}{4}$ " PCD



High Voltage Cable Coupler System Accessories

15kV Insulated End Cover



RS844
15kV Universal Insulated End Cover
Pilot to ground/Diode/Resistor

Alignment Sticks

RS178

Phase guide stick set for
assembly (3 included)



15kV Termination Kit Large

RS323

(to suit core outer diameter
 $1\frac{5}{16}$ " (24mm) – $1\frac{7}{8}$ " (48mm)



▪ 4.0LCompound



▪ 3 x QT567



▪ CC2

15kV Termination Kit Small

RS406

(to suit core outer diameter
 $\frac{5}{8}$ " (16mm) – $1\frac{1}{8}$ " (28.5mm)



▪ 4.0L
Compound



▪ 3 x QT5671



▪ CC2

Coupler Tool Kit (All Voltages)

Stock No. RS284

2 off 1246



Spanners

1 off RS325



Racking Tool

1 off RS177



Slide Hammer

1 off RS176



Earth Pilot Removal Tool

1 off 1274



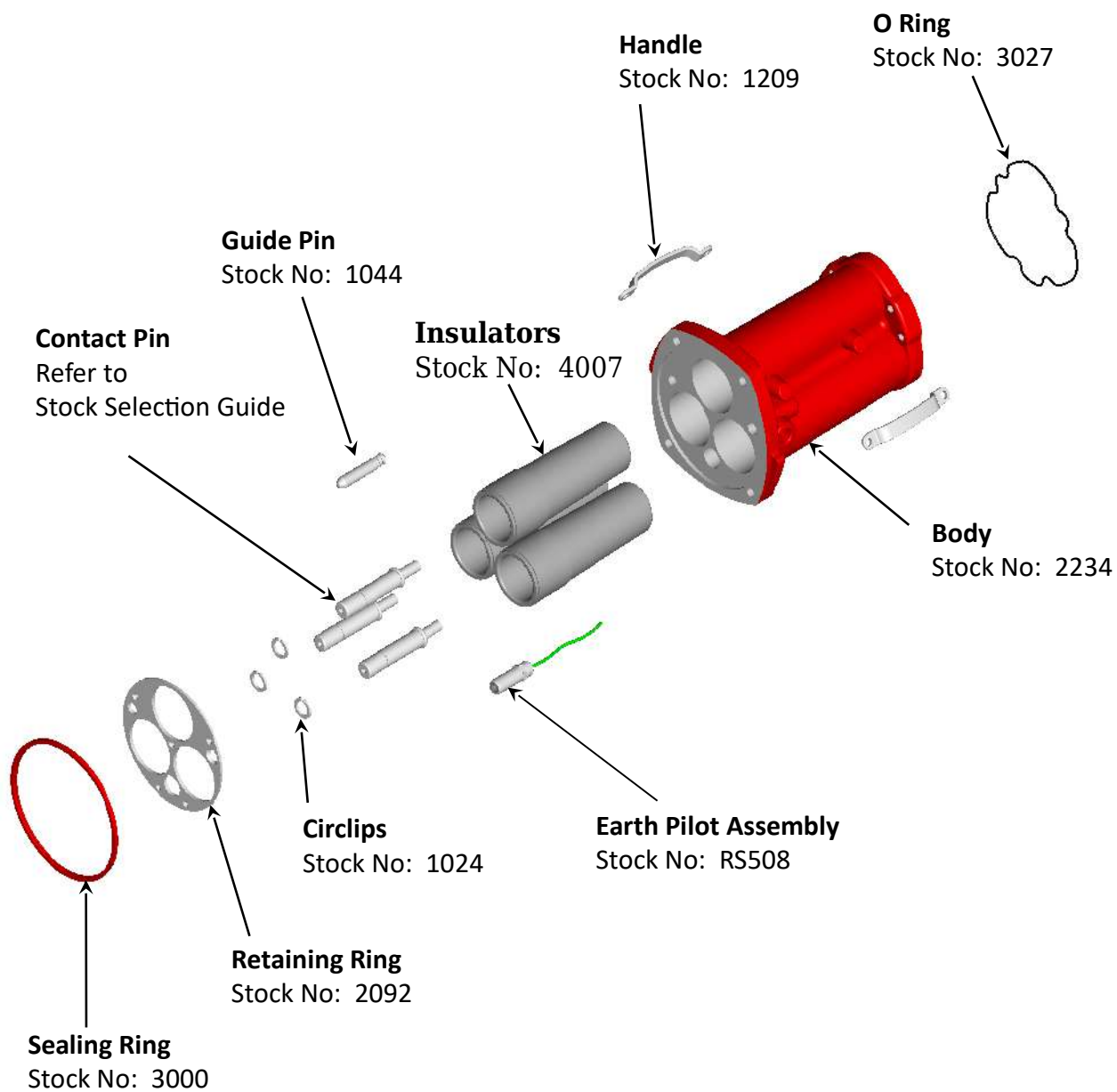
Tool Box

15 off 1278

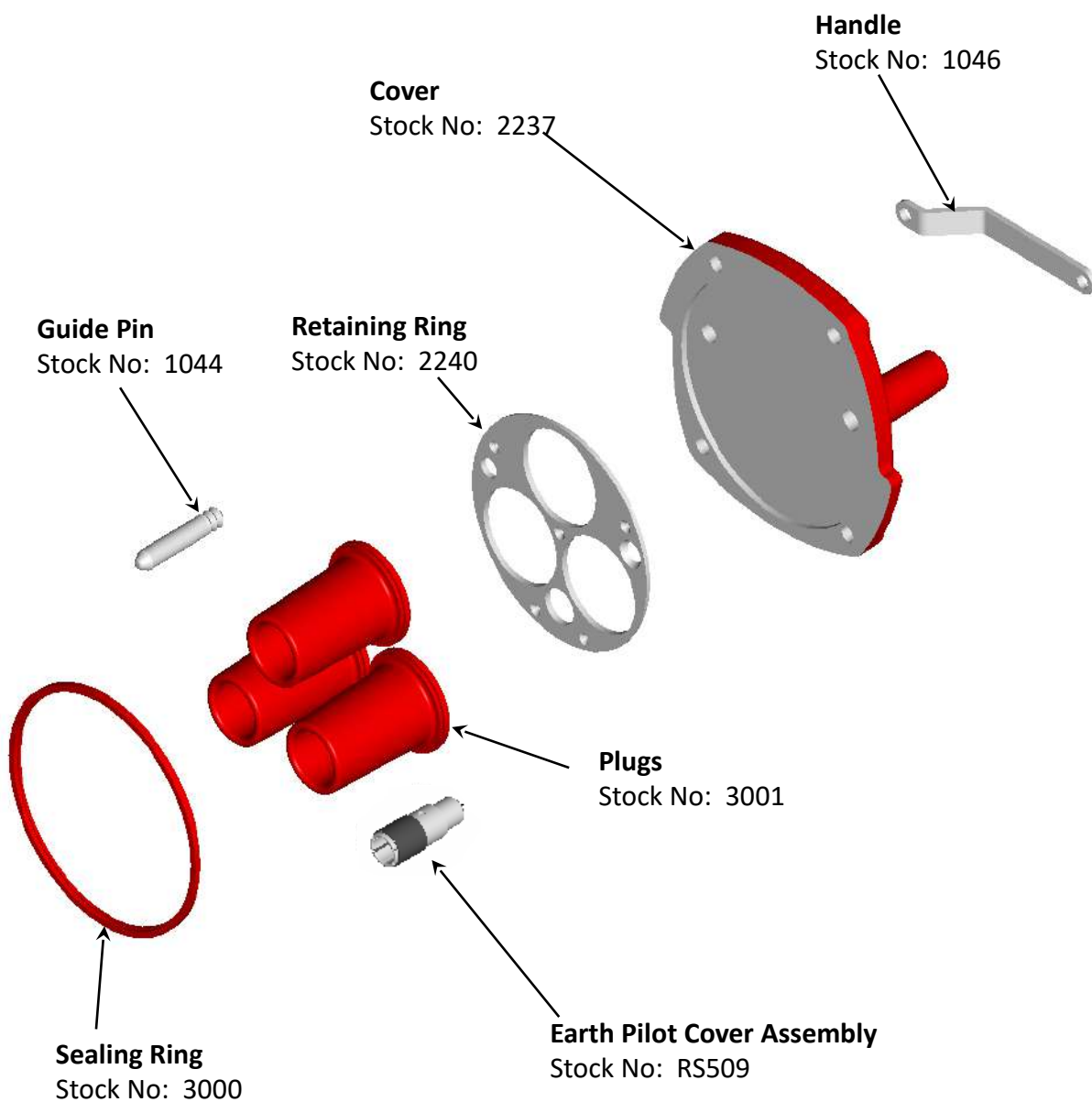


High Voltage Cleaning Tissues

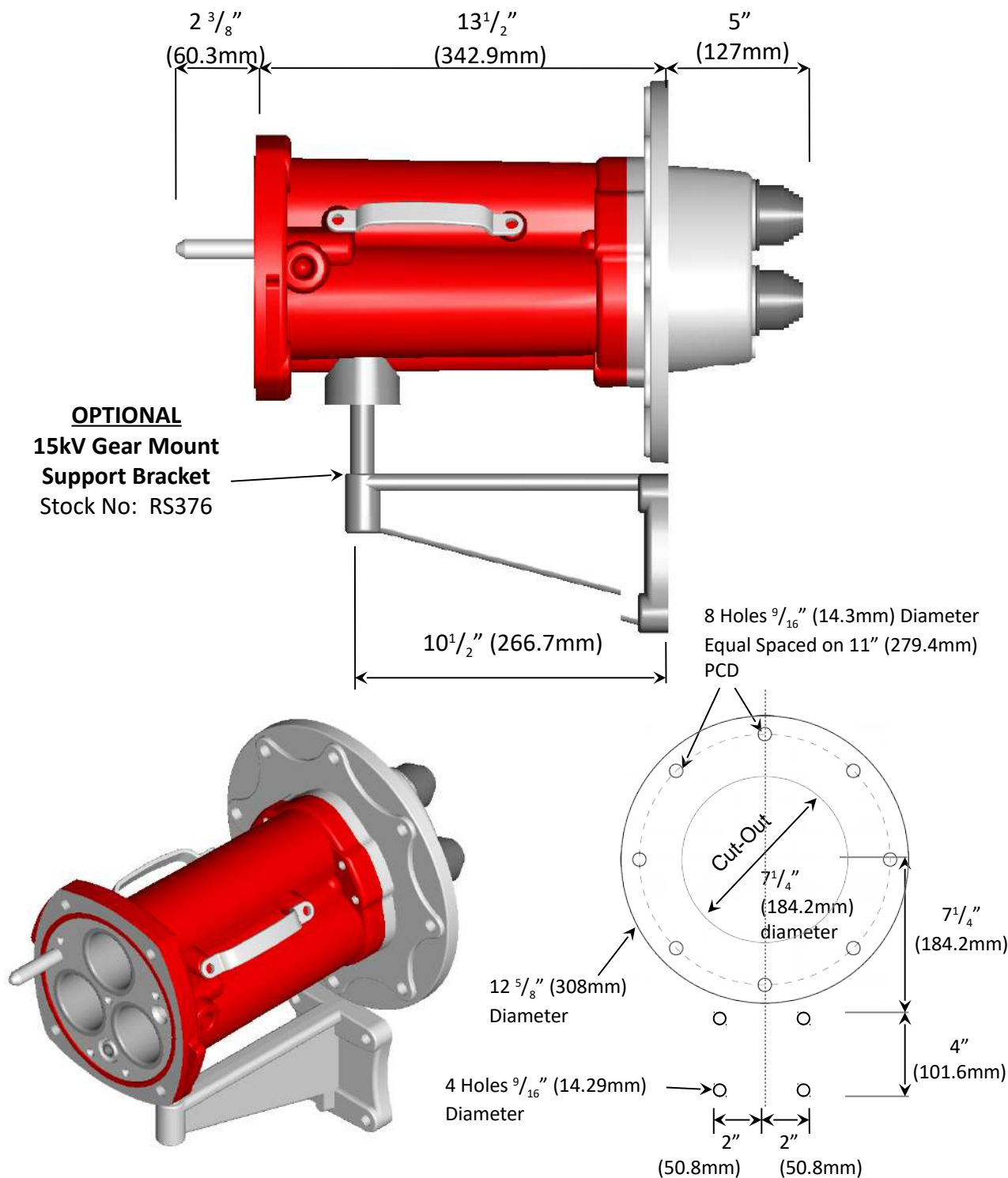
High Voltage Cable Bolted Coupler Body Assembly 15kV



Insulated End Cover Assembly 15kV



Adaptor Gear Mount Flange Assembly 15kV with Support Bracket

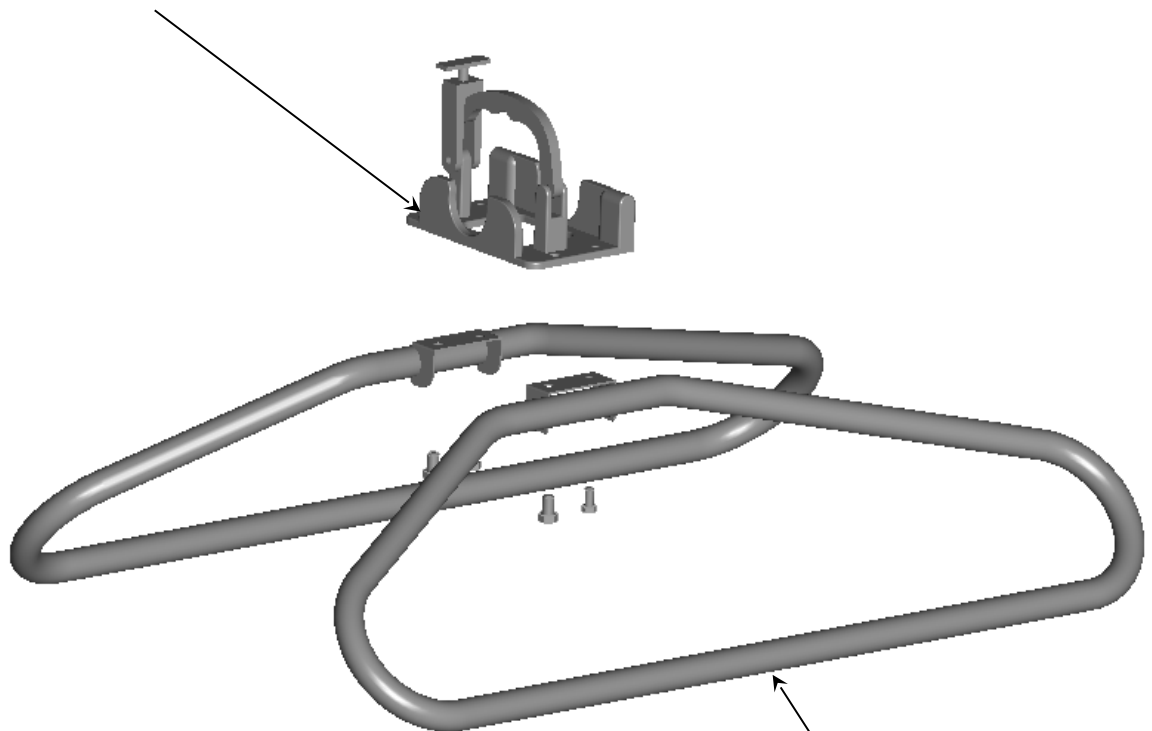


Coupler Support Stand for 15kV Couplers

Technical Data

Stock No:	RS183
Footprint:	1500mm x 950mm
Coupler Height:	390mm
Mass:	18kg

Cradle Assembly Stock No: RS351



Legs (2 Required)
Stock No: RS352

3 – Way Splitter for 15kV Couplers

Technical Data

Stock No. RS353

Amps: 800

Footprint: 1700mm x 950mm

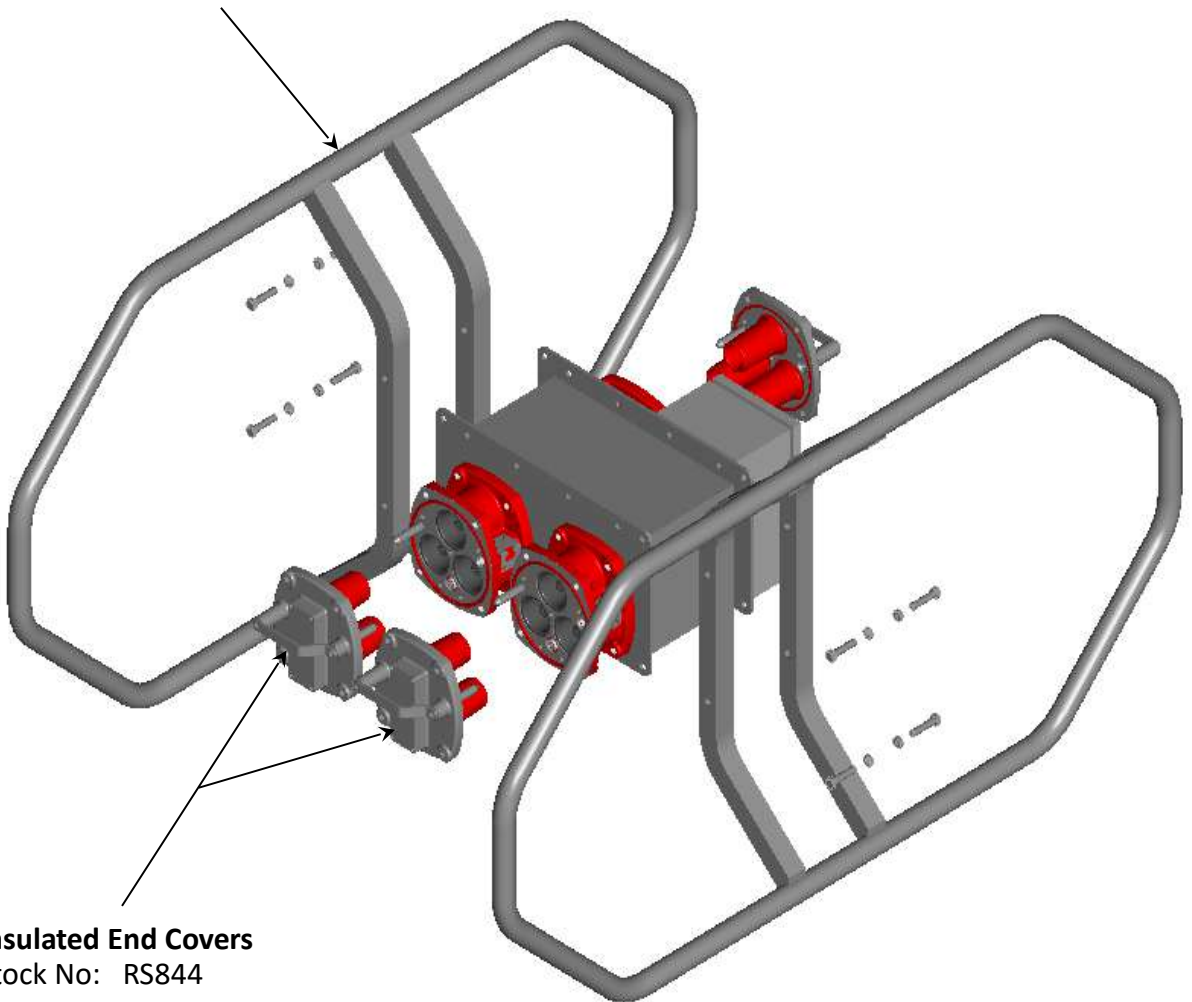
Volts: 15000

Coupler Height: 390mm

Mass: 108 kg

Protection Legs (2 Required)

Stock No: 1062

**Insulated End Covers**

Stock No: RS844

Coupler Alignment Skid for 15kV Couplers

Technical Data

Footprint: 1900mm x 950mm
Coupler Height: 390mm
Mass: 46 kg

15kV Alignment Skid

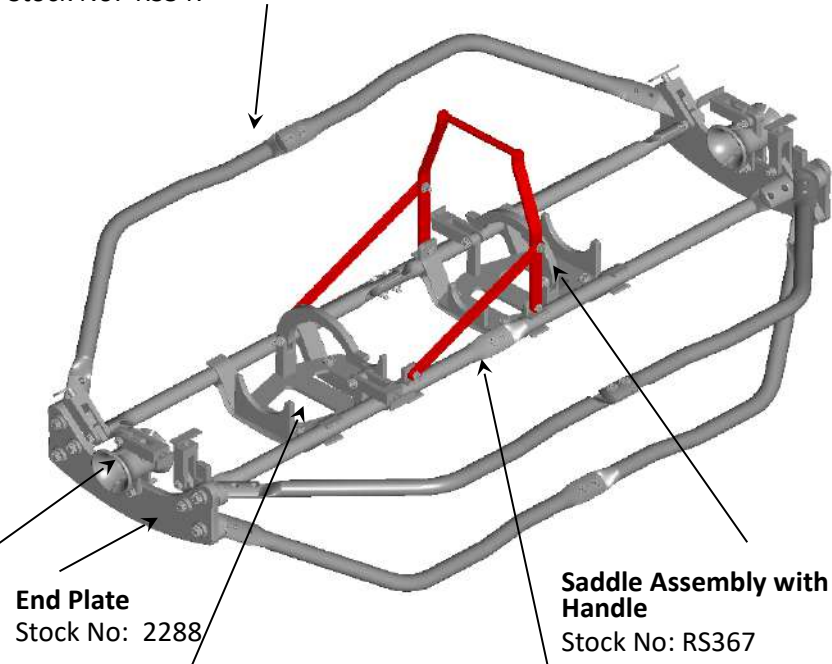
Stock No	Description	Stock No	Description
RS1028	Complete Alignment Skid with 120mm Clamps	RS1036	Complete Alignment Skid with 80mm Clamps
RS1029	Complete Alignment Skid with 115mm Clamps	RS1037	Complete Alignment Skid with 75mm Clamps
RS1030	Complete Alignment Skid with 110mm Clamps	RS1038	Complete Alignment Skid with 70mm Clamps
RS1031	Complete Alignment Skid with 105mm Clamps	RS1039	Complete Alignment Skid with 65mm Clamps
RS1032	Complete Alignment Skid with 100mm Clamps	RS1040	Complete Alignment Skid with 60mm Clamps
RS1033	Complete Alignment Skid with 95mm Clamps	RS1041	Complete Alignment Skid with 55mm Clamps
RS1034	Complete Alignment Skid with 90mm Clamps	RS1042	Complete Alignment Skid with 50mm Clamps
RS1035	Complete Alignment Skid with 85mm Clamps	RS1043	Complete Alignment Skid with 45mm Clamps

Cable Clamp

ID Sizes	Stock No
4 ⁵ / ₈ " (120mm)	RS326
4 ⁹ / ₁₆ " (115mm)	RS327
4 ⁵ / ₁₆ " (110mm)	RS328
4 ¹ / ₈ " (105mm)	RS329
3 ¹⁵ / ₁₆ " (100mm)	RS330
3 ³ / ₄ " (95mm)	RS331
3 ¹ / ₂ " (90mm)	RS332
3 ³ / ₈ " (85mm)	RS333
3 ¹ / ₈ " (80mm)	RS334
2 ¹⁵ / ₁₆ " (75mm)	RS335
2 ³ / ₄ " (70mm)	RS336
2 ⁹ / ₁₆ " (65mm)	RS337
2 ³ / ₈ " (60mm)	RS338
2 ¹ / ₈ " (55mm)	RS339
1 ¹⁵ / ₁₆ " (50mm)	RS480
1 ³ / ₄ " (45mm)	RS481

Protection Bars (4 Required)

Stock No: RS347



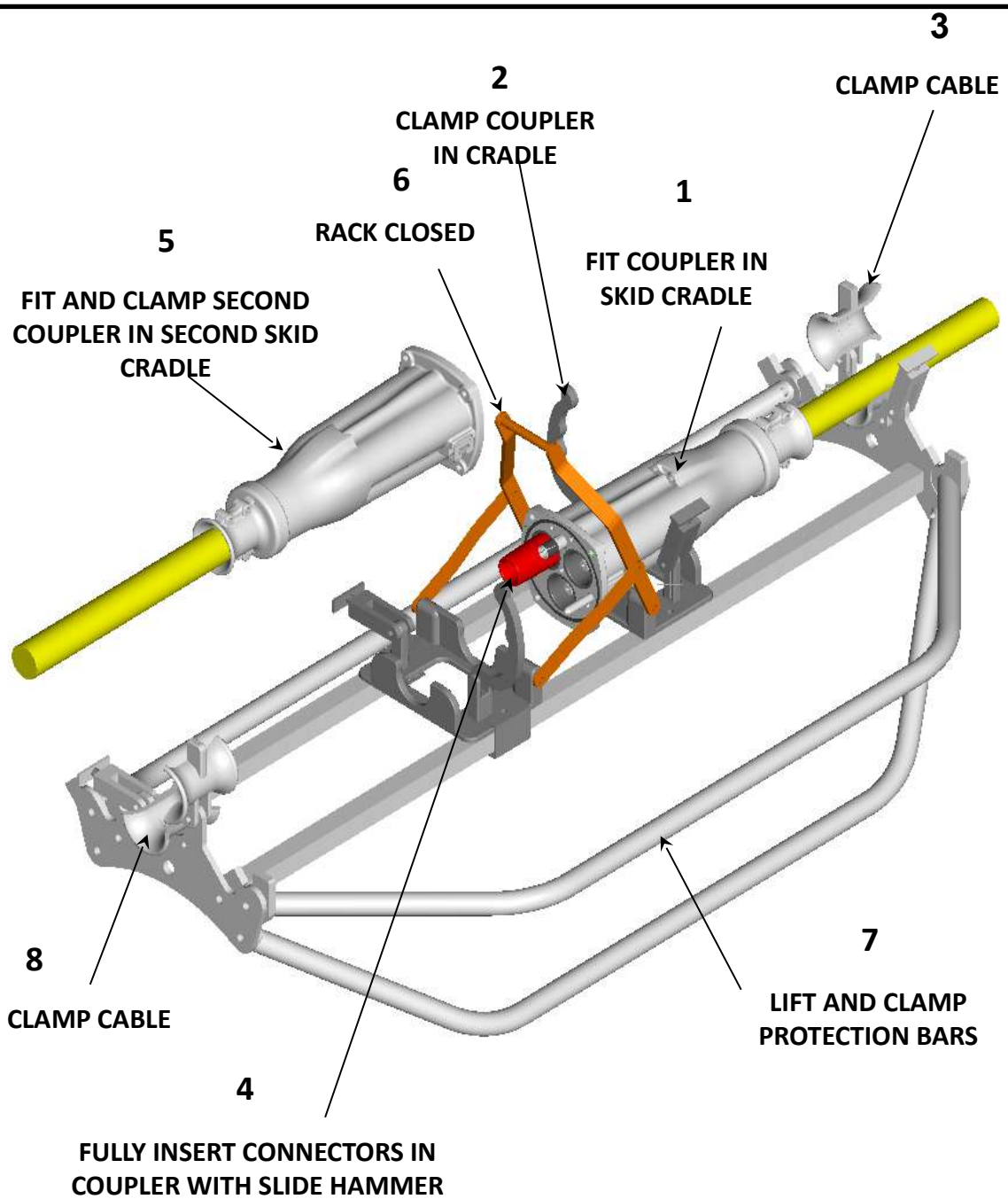
End Plate
Stock No: 2288

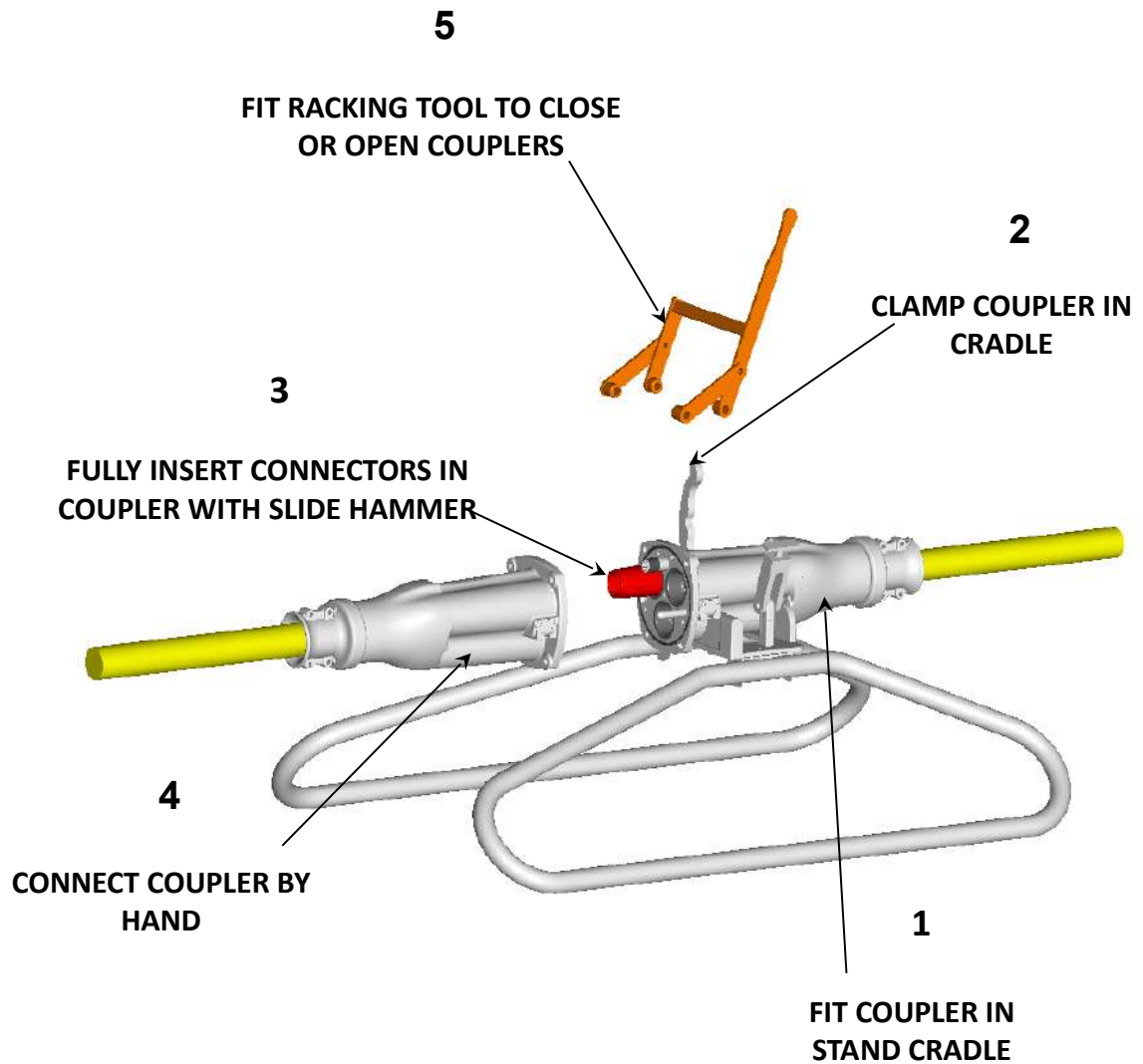
Saddle Assembly with Push Arms
Stock No: RS366

Saddle Assembly with Handle
Stock No: RS367

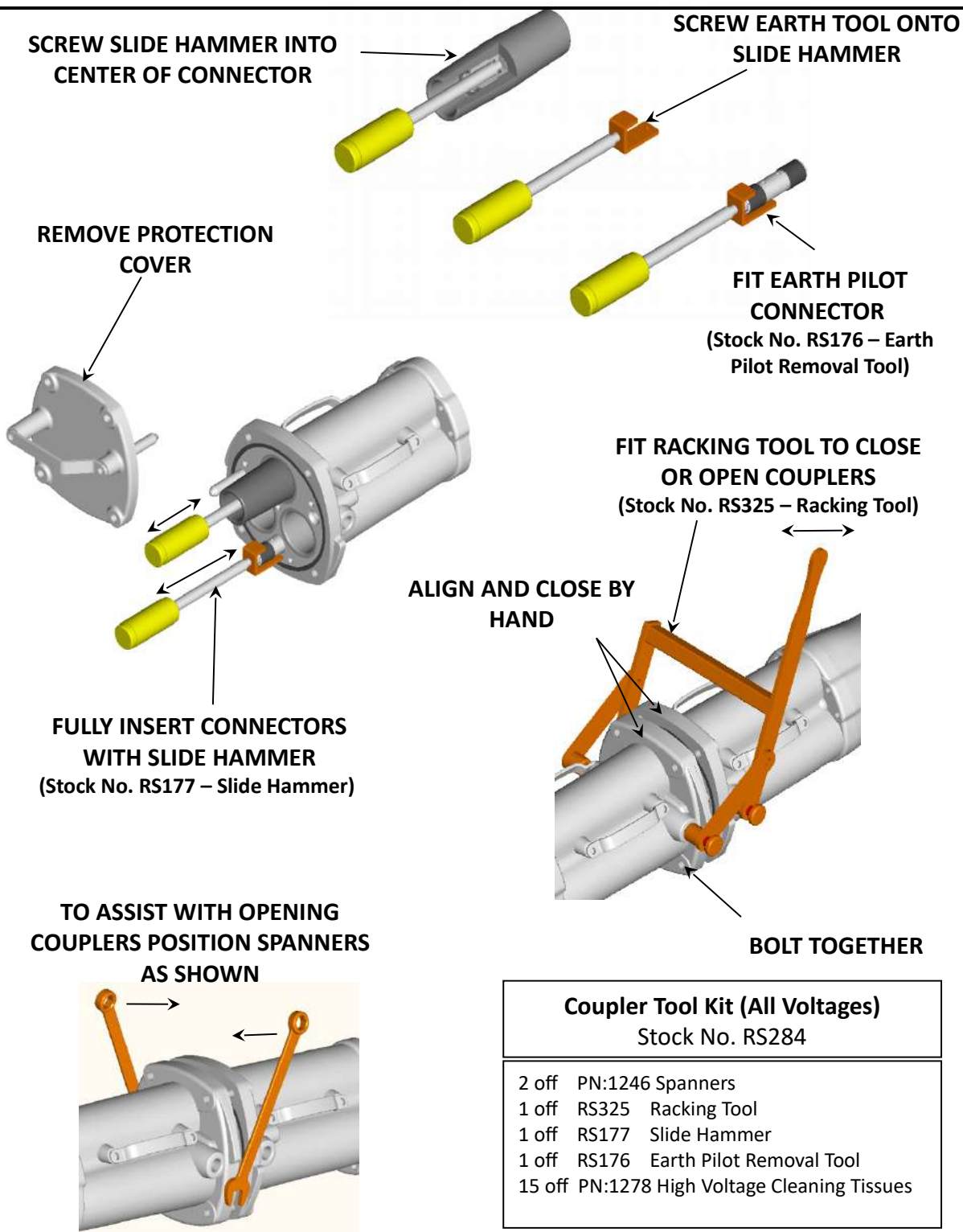
Main Rails (2 Required)
Stock No: RS349

Alignment Skid Operations



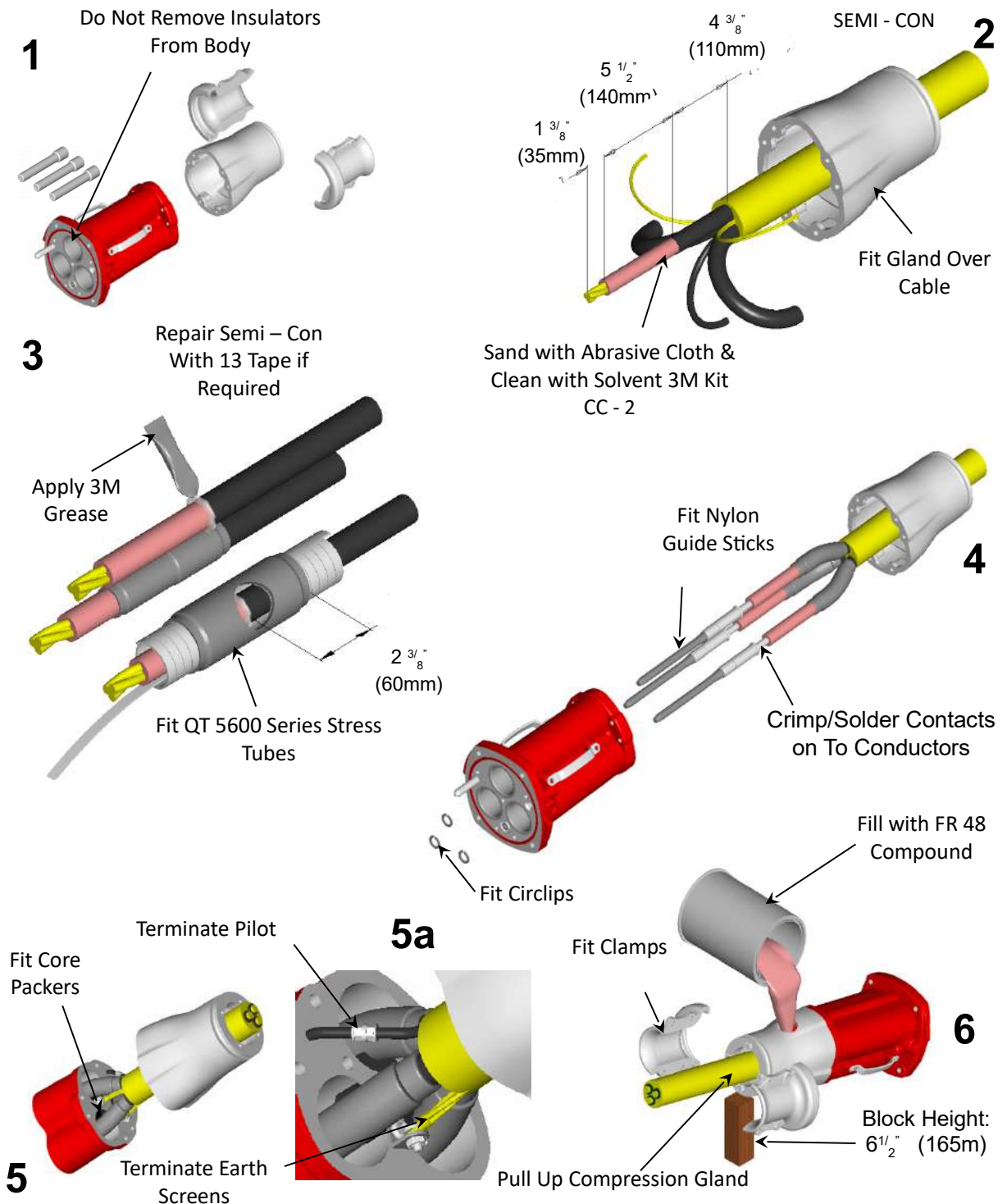


Inserting Connectors and Coupling Operation



15kV 800A - Unarmoured Coupler

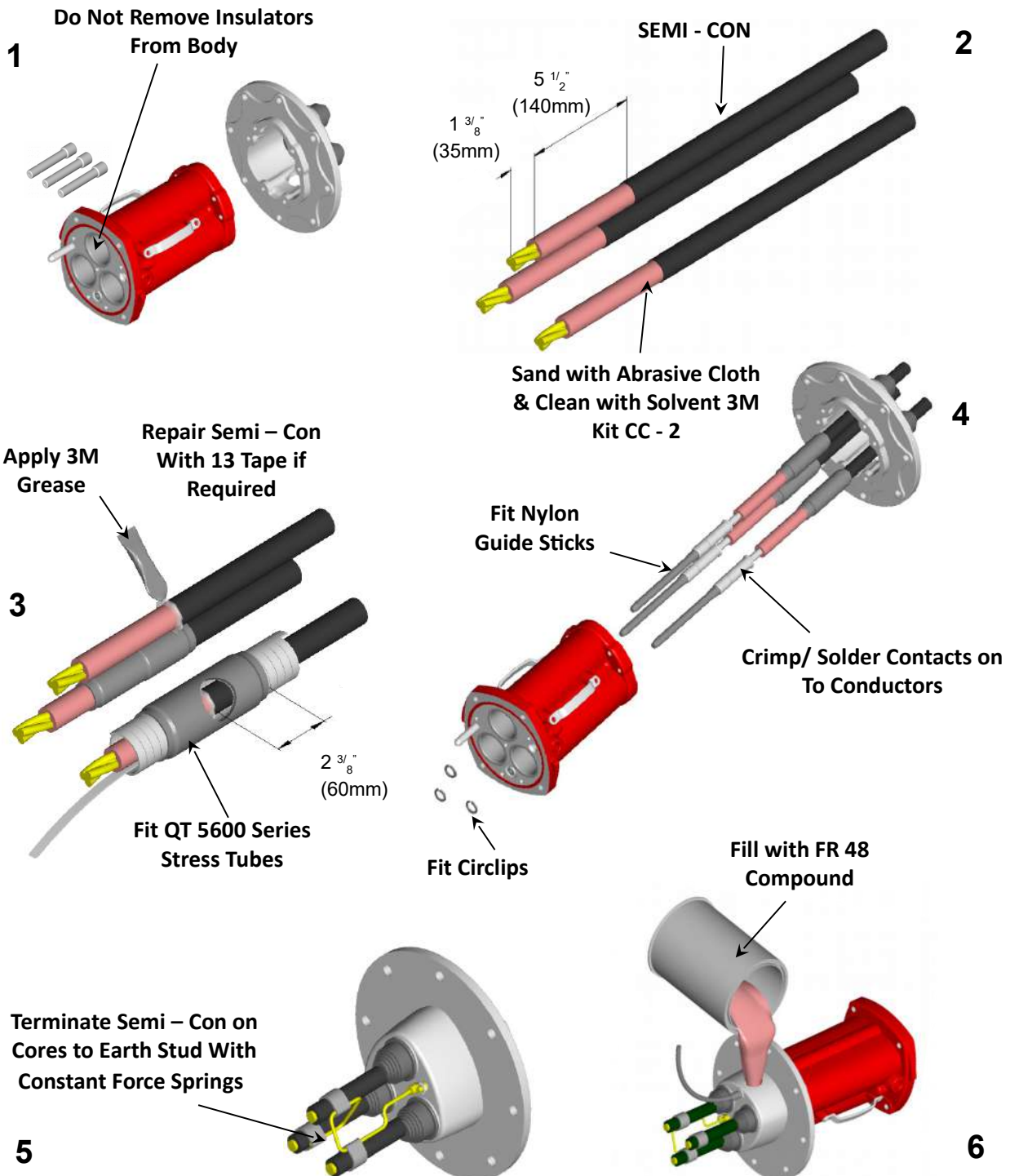
Termination Procedure



These instructions are intended for use by Competent Person

15kV 800A Gear Mount Adaptor

Termination Procedure



These instructions are intended for use by Competent Persons.

Care & Maintenance for Open Cut Coupler System

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.
- When a witness mark is brightly painted on the sheath, this is located where the cable enters the gland. This needs to be routinely inspected to check if the 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 groove.
- On each occasion when the couplers are bolted together, inspect the male pin in the coupler for obvious damage. Also inspect the location on 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 as a result of handling.
- On regular intervals of up 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.