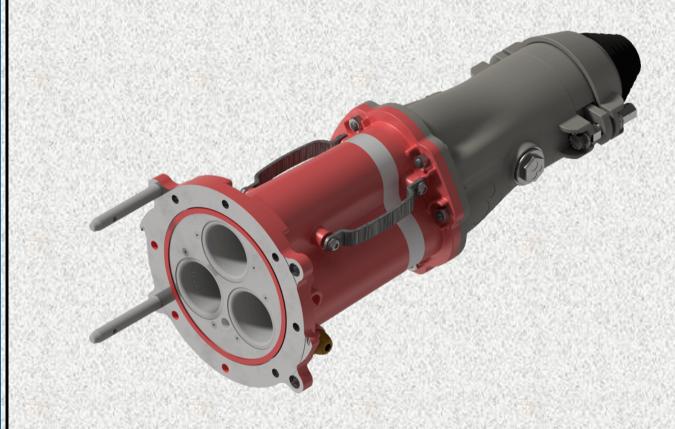
*AUSPROOF

11kV 800AMP Flameproof Stainless Steel Coupler

Ex118BSS-Range



Pioneering the Difference.



The AusProof high voltage coupler and adaptor system demonstrates state of the art technology with an innovative design which becomes homogeneous with the cable when terminated. The design offers a continued earth shield, segregating the three phases and maintains the same

Symmetrical radial distribution of voltage stress, as in the cable design. This eliminates the risk of a phase to phase fault.

The face profile and silicon rubber connector expels all air when connected, eliminating condensation, dust and corona. The type tests performed were all based on high voltage, cable specification requirements, and the results prove; that the coupler is as good as the cable.

Electrical Type Test Results

11kV 800A Coupler

Through Fault Current

20kA for 0.3 seconds 20kA for 0.3 seconds 20kA for 1.0 seconds At 10 minute intervals

Impulse Voltage

95kV 10 pos and 10 neg 110kV 10 pos and 10 neg

A/C High Voltage Withstan

24kV for 1 minute 50kV for 1 minute 35kV for 6 hours

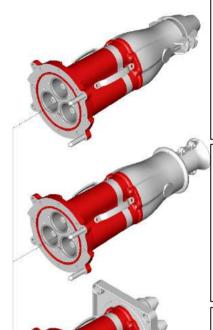
Partial Discharge

Prior to 6 hour High voltage withstand 10pC After 6 hour High voltage withstand 0.6pC



High Voltage Cable Coupler System

Technical Guide



Description: Half Coupler for Armoured Cable

Rating: 11kV 800A

Material: High Tensile Brass

Mass: 30kg

Material: Stainless Steel 304

Mass: 30kg **LOA:** 580mm Volume: 3.5L

Description: Half Coupler for Unarmoured Cable

Rating: 11kV 800A

Material: High Tensile Brass

Mass: 30.5kg

Material: Stainless Steel 304

Mass: 30.5kg LOA: 580mm Volume: 3.5L

Description:Adaptor Rating:11kV 800A

Material: High Tensile Brass

Mass: 30kg

Material: Stainless Steel 304

Mass: 30kg **LOA:** 265mm Volume: 3L



Stock No: RS1001

Description: Insulated End Cover

Rating:11kV

Material: High Tensile Brass

Mass: 7.5kg

Material: Stainless Steel 304

Mass: 7.5kg

NOTE ID EX118B - Brass EX118BSS - Stainless Steel EX118BSSRF - S/S Replaceable-

AUSPROOF CO ID EX118B - 11kV 800A - Ex d 1 Mb TYPE A

WARNING - TO BE COMPOUND FILLED - DO NOT SEPARATE WHEN EMERGIZED MACE IN AUSTRALIA

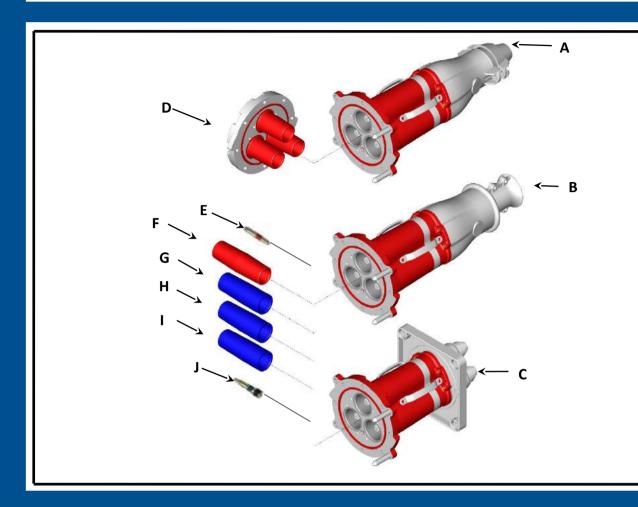


MAXIMUM TEMPERATURE ACHIEVED WAS +65 °C WITH A REQUIRED AMBIENT TEMPERATURE +40 °C

MANUFACTURED TO AS/NZS 1300:2009



Ex118BSS Stainless Steel Coupler System Overview



		Description	Stock No.	Page
A B C D	Half Coupler Adaptor Insulated End	For Armoured Cable For Unarmoured Cable Cover	RS1001SS	4 4 4 9
F G H I J	800/800 Amp 150/800 Amp 300/800 Amp 425/800 Amp	cor (1 required per join) o Phase Connectors (3 required per join) o Transition Connector (3 required per join) o Transition Connector (3 required per join) Transition Connector (3 required per join) n Connector (1 required per join)	RS113 RS112 RS108 RS109 RS110 RS111	



Gland Assembly Selection Guide

Use this table to determine the correct gland size using the cable conductor core size

6.35/11kV	11/11kV 12.7/22k	12.7/22kV	/ 5 11	AusProof Part	AusProof Part	
XLPE	PILC	XLPE	Comp Rubber	PILC GLAND	XLPE GLAND	
mm^2	mm^2	mm^2	mm			
	16		33-38	RS945SS	RS955SS	
	25					
16	35		38-43	RS946SS	RS956SS	
25	50		30-43	11334033	11333033	
	70					
35	95		43-48	RS947SS	RS957SS	
50	120		45-46	N334733	N393/33	
70	150	16	48-53	RS948SS	RS958SS	
70	130	25	113.54033	11333033		
95	185	185 35 53-58	RS949SS	RS959SS		
95		50	33-38	11334333	11333333	
120	240	70	58-63	RS950SS	RS960SS	
150	240	70	38 63	11333033	11330033	
185	300	95	63-68	RS951SS	RS961SS	
240	400	120	68-73	RS952SS	RS962SS	
240	400	150	00-73	11393233	1390233	
300		185	73-78	RS953SS	RS963SS	
		240	78-83	RS954SS	RS964SS	
		300	83-88	RS1118SS	RS965SS	



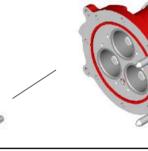
Ex118BSS Coupler System Stock Selection Guide

Ex118BSS Gland Assembly Ex118BSS Gland Assembly PILC SWA Cable XLPE SWA Cable Cable OD Stock No Cable OD Stock No Stock No Cable OD Stock No Cable OD **Under Armour Under Armour Under Armour Under Armour** 33mm-38mm RS945SS 33mm-38mm RS955SS 63mm-68mm RS951SS 63mm-68mm RS961SS 38mm-43mm RS946SS 38mm-43mm RS956SS 68mm-73mm RS952SS 68mm-73mm RS962SS RS947SS 43mm-48mm 43mm-48mm RS957SS 73mm-78mm RS953SS 73mm-78mm RS963SS 48mm-53mm RS948SS 48mm-53mm RS958SS 78mm-83mm RS954SS 78mm-83mm RS964SS 53mm-58mm RS949SS 53mm-58mm RS959SS 83mm-88mm RS1118SS 83mm-88mm RS965SS 58mm-63mm RS950SS 58mm-63mm RS960SS PILC Gland Assembly includes earth stud, earth strap and XLPE Gland Assembly includes earth studs only. constant force spring. Adaptor Flange Stock No. RS944SS

Stainless Steel Body

Std Stock No. :RS940SS c/w Pilot Stock No. :RS941SS Stainless Steel Body with Indicators

Std Stock No. :RS942SS c/w Pilot Stock No. :RS943SS



Ex118BSS Unarmoured Cable Gland Assembly

	Cable OD	Stock No
_	70mm-75mm 75mm-80mm 80mm-85mm 85mm-90mm 90mm-95mm	RS967SS RS968SS RS969SS RS970SS RS971SS RS1119SS
	100mm-105mm	RS1120SS
	105mm-110mm	RS1121SS

Unarmoured Gland Assembly includes earth studs only.

	(11kV Contacts - Set of 3)	
Size	Soldered	Crimp
25mm sq		Stock No: RS866
35mm sq	Stock No: RS067	Stock No: RS076
50mm sq	Stock No: RS068	Stock No: RS077
70mm sq	Stock No: RS069	Stock No: RS078
95mm sq	Stock No: RS070	Stock No: RS079
120mm sq	Stock No: RS071	Stock No: RS080
150mm sq	Stock No: RS072	Stock No: RS081
185mm sq	Stock No: RS073	Stock No: RS082
240mm sq	Stock No: RS074	Stock No: RS083
300mm sq	Stock No: RS075	Stock No: RS084



Ex118BSS Body

Technical Data

Stainless Steel Stock No: RS940SS - Body

Stainless Steel Stock No: RS941SS - Body with Pilot.

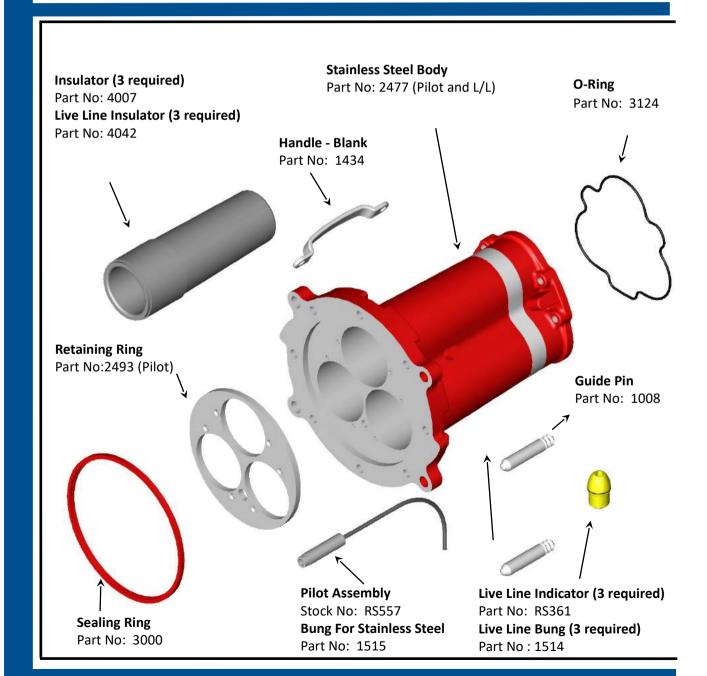
Stainless Steel Stock No: RS942SS - Body with Indicators.

Stainless Steel Stock No: RS943SS - Body with Indicators and Pilot.

Material: Stainless

Steel 304

Amps: 800 Volts: 11000

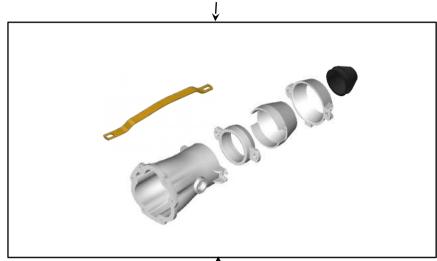


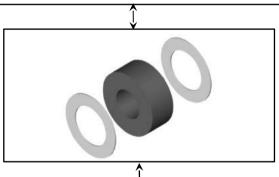


Ex118BSS Coupler Armoured Gland Assembly

Armoured Housing

Stock No: RS972SS





PILC Compression Clamp Kit includes:

3 x Earth Studs PN: RS1143

1 x Flexible Earth PN:1212

1 x Constant Force Spring PN: 1014

Armoured Compression Clamp Kit

Clamp Kit			
	Cable OD		
Stock No	Stock No Range		
For PILC	Under Armour	For XLPE	
RS984	33mm-38mm	RS974	
RS985	38mm-43mm	RS975	
RS986	43mm-48mm	RS976	
RS987	48mm-53mm	RS977	
RS988	53mm-58mm	RS978	
RS989	58mm-63mm	RS979	
RS990	63mm-68mm	RS980	
RS991	68mm-73mm	RS981	
RS992	73mm-78mm	RS982	
RS993	78mm-83mm	RS983	
RS1123	83mm-88mm	RS1122	

XLPE Compression Clamp Kits includes:

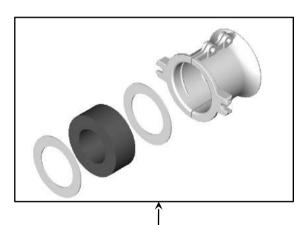
3 x Earth Studs PN: RS1143



Unarmoured Housing

Stock No: RS973SS





Unarmoured Compression Clamp Kit		
Cable OD	Stock No	
70mm-75mm	RS996SS	
75mm-80mm	RS997SS	
80mm-85mm	RS998SS	
85mm-90mm	RS999SS	
90mm -95mm	RS1000SS	
95mm-100mm	RS1124SS	
100mm-105mm	RS1125SS	
105mm-110mm	RS1126SS	

Each Compression Clamp Kit includes: 3 x Earth Studs - PN: RS1143



Ex118BSS Adaptor Flange

Technical Data

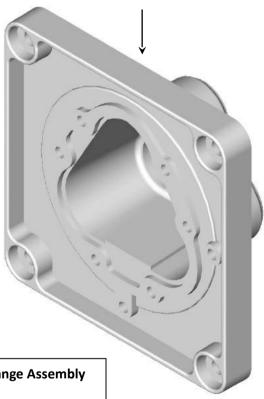
Stainless Steel Stock No: RS944SS - 11kV Adaptor Flange

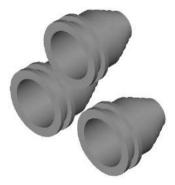
Material: Stainless Steel 304

Volts: 11000 **Amps:** 800

Stainless Steel Flange

Stock No: 2480





Grommet Stock No: 3003

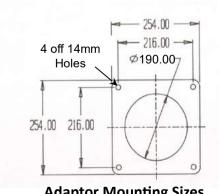
Adaptor Flange Assembly includes:

1 x Earth Bracket PN: 1423

1 x Flexible Earth PN:1212

3 x Constant Force Spring

PN: 1014



Adaptor Mounting Sizes



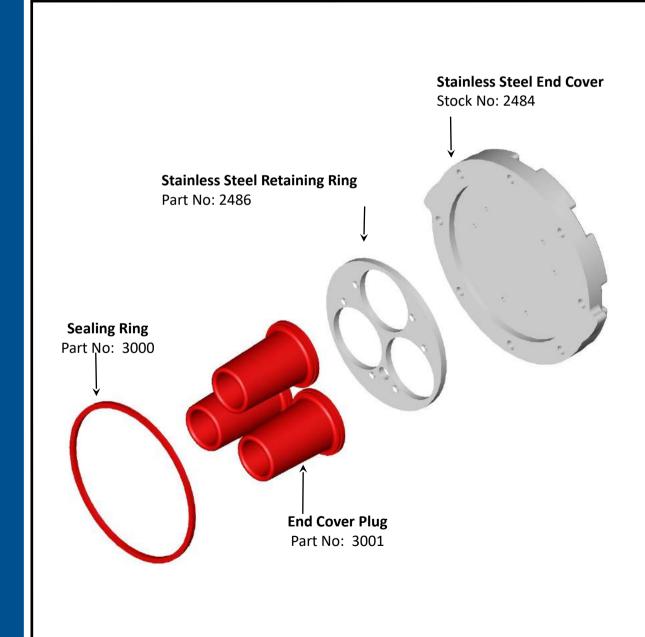
Ex118BSS Insulated End Cover

Technical Data

Stainless Steel Stock No: RS1001SS - Insulated End Cover

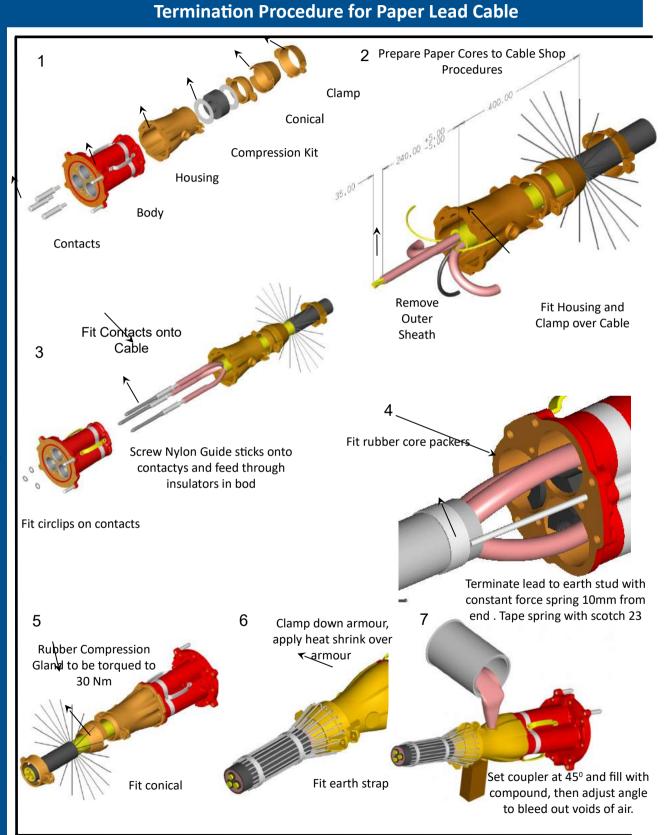
Material: Stainless Steel 304

Volts: 11000 Amps: 800





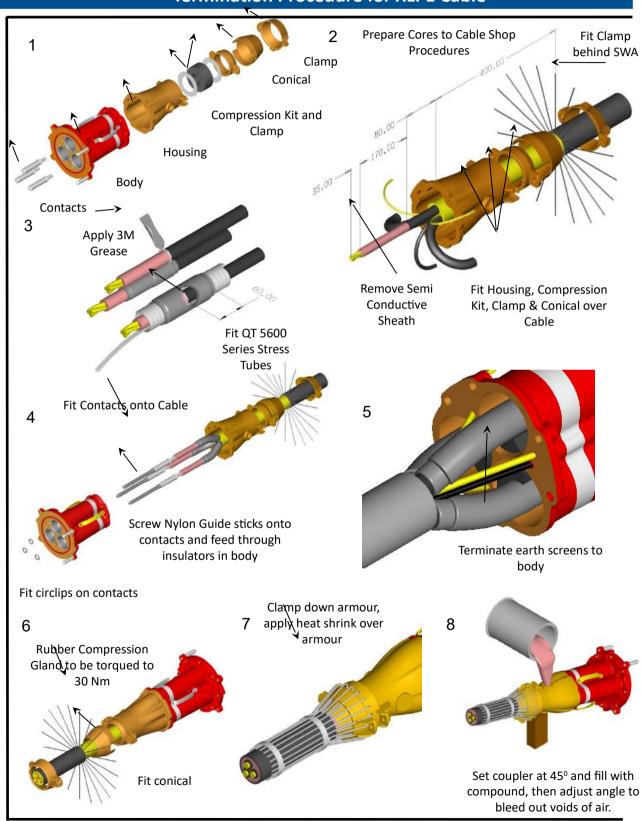
Tarada al'a a Baranda a Carbara de Alda





Ex118B / SS / RF Coupler

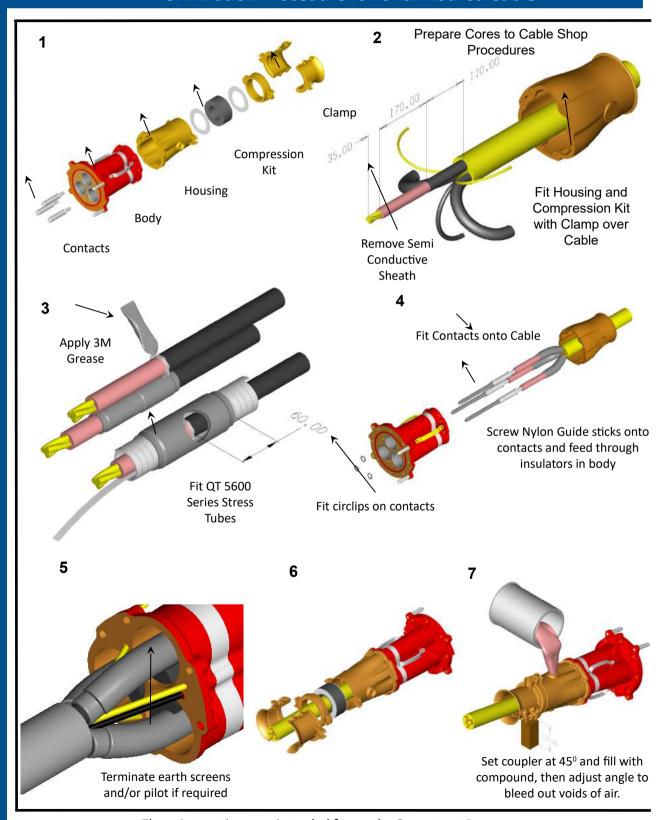
Termination Procedure for XLPE Cable





Ex118B / SS / RF Coupler

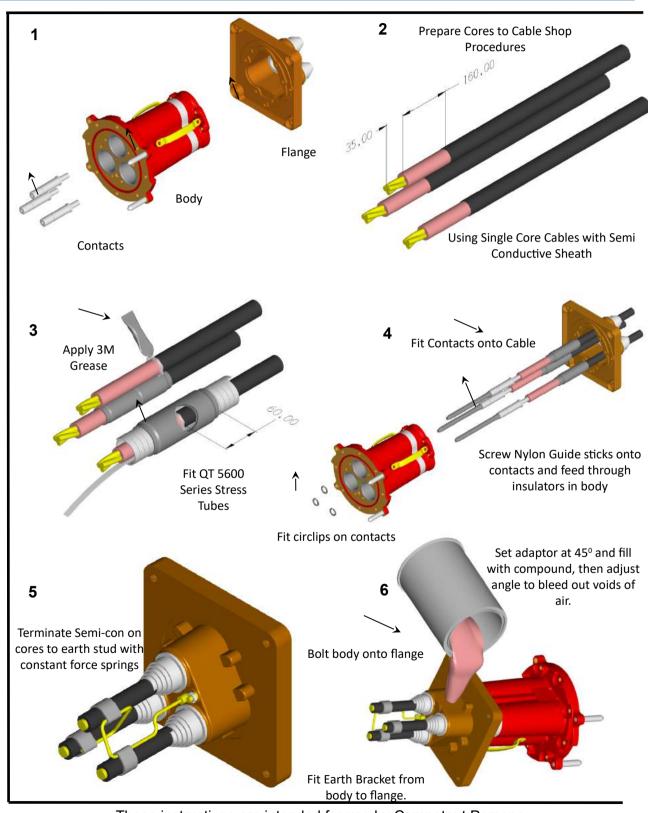
Termination Procedure for Unarmoured Cable





Ex118B / SS / RF Coupler

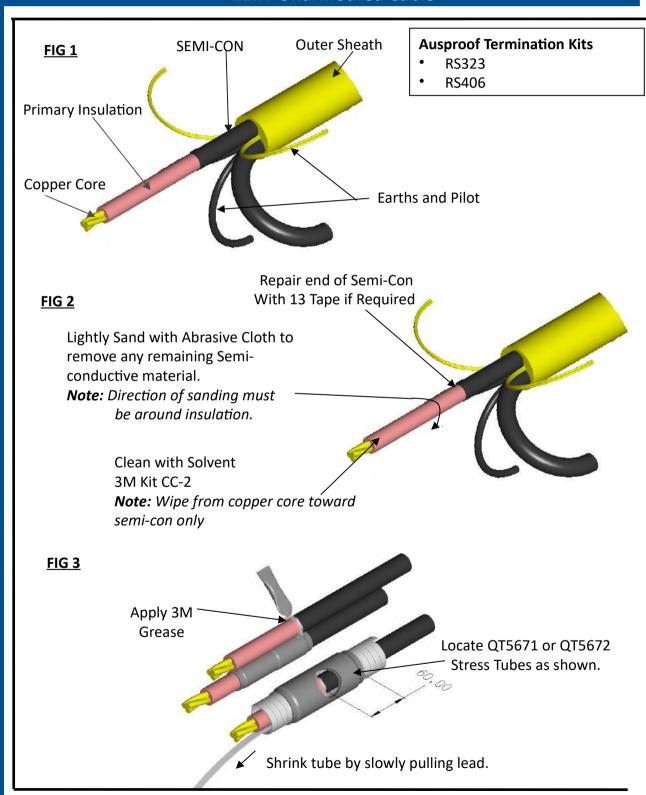
Termination Procedure for Adaptor





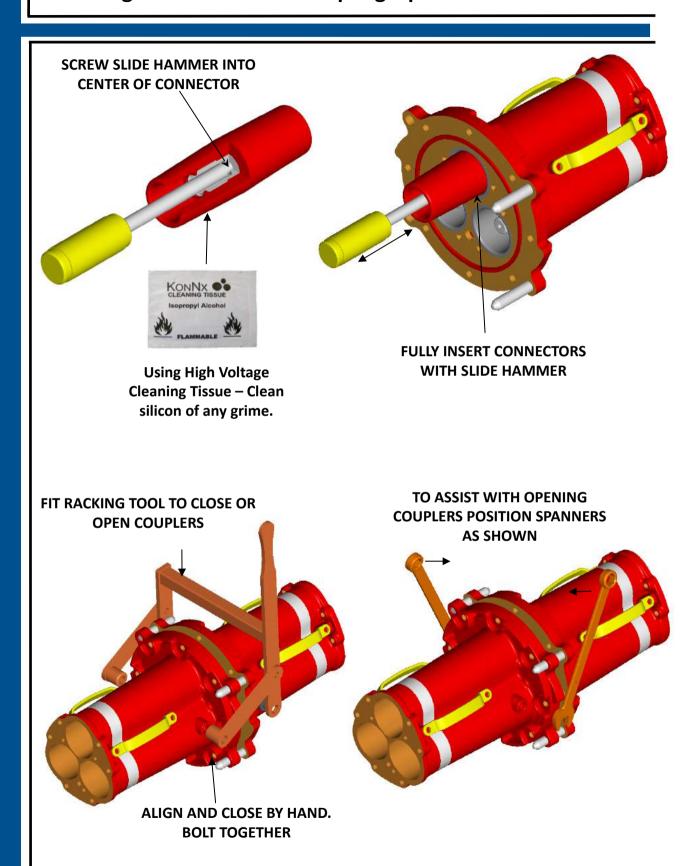
High Voltage Stress Relief Instructions

11kV Unarmoured Cable





Inserting Connectors and Coupling Operation





Care & Maintenance for Underground 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 an end cover or insulated end cover is fitted that provides adequate sealing against moisture.
- 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 before the couplers are bolted together, inspect 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.
- To ensure the coupler is still fit for purpose, inspections should be performed. As a minimum a 'gap test' should be performed on the faces of two couplers that have been bolted together.
- A maximum of 0.5mm is permissible.