AUSPROOF 11kV 800AMP Flameproof

Removable Flange Coupler

Ex118BSSRF- Range



TM_506

Version 2

• AUS**PROOF**

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

A/C High Voltage Withstan

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

Impulse Voltage

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

Partial Discharge

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

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AUSPROOF High Voltage Cable Coupler System **Technical Guide**







		Description	Stock N	No.	Page
Α	Half Coupler	For Armoured Cable			4
В		For Unarmoured Cable			4
С	Adaptor				4
D	Insulated End	Cover	F	RS1001SS	9
E	E Pilot Connector (1 required per join) RS113				
F	F 800/800 Amp Phase Connectors (3 required per join) RS112				
G	G 150/800 Amp Transition Connector (3 required per join) RS108				
н	 300/800 Amp Transition Connector (3 required per join) RS109 				
1	I 425/800 Amp Transition Connector (3 required per join) RS110				
J	Pilot Transitic	n Connector (1 required per join)	F	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	12.7/22kV	Comp Rubber	AusProof Part	AusProof Part
XLPE	PILC	XLPE	Comp Rubber	PILC GLAND	XLPE GLAND
mm^2	mm^2	MM62	mm		
	16		33-38	RS945SS	RS955SS
	25				
16	35		38-43	R\$946\$\$	R\$956\$\$
25	50		50 45	1004000	1355055
	70				
35	95		43-48	R\$947\$\$	R\$957\$\$
50	120			1354735	1355755
70	150	16	48-53	R594855	R\$958\$\$
,,,	130	25	10 33	1000	1355655
95	185	35	53-58	RS949SS	RS959SS
		50			
120	240	70	58-63	RS950SS	RS960SS
150					
185	300	95	63-68	RS951SS	RS961SS
240	400	120	68-73	RS952SS	RS962SS
		150			
300		185	73-78	RS953SS	RS963SS
		240	78-83	RS954SS	RS964SS
		300	83-88	RS1118SS	RS965SS

AUSPROOF Ex118BSSRF Coupler System

Stock Selection Guide

E 440000 0		_					
EX118BSS GI	and Assembly	Ex118BSS Gland Assembly					
FILC SV	PILC SWA Cable			XLPE SWA Cable			
Cable OD Stock No Under Armour	Cable OD Stock No Under Armour	Cable OD Under Armour	Stock No	Cable OD Sto Under Armour	ock No		
33mm-38mm RS945SS 38mm-43mm RS946SS 43mm-48mm RS947SS 48mm-53mm RS948SS 53mm-58mm RS949SS 58mm-63mm RS950SS	63mm-68mm RS951SS 68mm-73mm RS952SS 73mm-78mm RS953SS 78mm-83mm RS954SS 83mm-88mm RS1118SS	33mm-38mm 38mm-43mm 43mm-48mm 48mm-53mm 53mm-58mm 58mm-63mm	RS955SS RS956SS RS957SS RS958SS RS959SS RS960SS	63mm-68mm RS96 68mm-73mm RS96 73mm-78mm RS96 78mm-83mm RS96 83mm-88mm RS96	1SS 2SS 3SS 4SS 5SS		
PILC Gland Assembly includes constant force spring.	PILC Gland Assembly includes earth stud, earth strap and constant force spring.			s earth studs only.			
Adaptor Flange Stock No. RS944SS Stainless Steel Body Std Stock No.:RS940SSRF c/w Pilot Stock No.:RS941SSRF Stainless Steel Body with Indicators Std Stock No.:RS942SSRF c/w Pilot Stock No.:RS943SSRF C/w Pilot Stock No.:RS943SSRF					red		
(11kV Conta	acts - Set of 3)		Cable	OD Stock No			
Size Solder	ed Crimp		70mm	-75mm R\$967\$\$			
25mm sq 35mm sq Stock No: RS 50mm sq Stock No: RS 70mm sq Stock No: RS 95mm sq Stock No: RS 120mm sq Stock No: RS 150mm sq Stock No: RS	Stock No: RS866 5067 Stock No: RS076 5068 Stock No: RS077 5069 Stock No: RS078 5070 Stock No: RS078 5071 Stock No: RS080 5072 Stock No: RS081		75mm 75mm 80mm 85mm 90mm 95mm 100mn 105mn	RS50733 •80mm RS968SS •85mm RS969SS •90mm RS970SS •95mm RS971SS •100mm RS1119S n-105mm RS1120S n-110mm RS1121S	5 5 5		
240mm sq Stock No: R 300mm sq Stock No: R	Stock No: RS082 5075 Stock No: RS083 5075 Stock No: RS084	- 	Unarm include	oured Gland Assembly es earth studs only.	/		

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Ex118BSSRF Body

Technical Data			
Stainless Steel Stock No: RS940SSRF – Body Stainless Steel Stock No: RS941SSRF – Body with Pilot.		Material: Stainless Steel 304	
Stainless Steel Stock No: RS942SSRF – Body Stainless Steel Stock No: RS943SSRF – Body	with Indicators. with Indicators and Pilot.	Amps: 800 Volts: 11000	
Repla Insulator (3 required) Stock No: 4007	ceable Flange No: 2473	O-Ring	
Live Line Insulator (3 required) Stock No: 4042	Stainless Steel Body Stock No: 2495 (Pilot and	Stock No: 3124	
Retaining Ring Stock No:2474 (Pilot) Sealing Ring Bung	Handle - Blank Stock No: 1434	Guide Pin Stock No: 1008	

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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



Ex118BSSRF Adaptor Flange

Technical Data

Stainless Steel Stock No: RS944SS - 11kV Adaptor Flange Material: Stainless Steel 304 Volts: 11000 Amps: 800





Ex118BSSRF Insulated End Cover

Technical Data

Stainless Steel Stock No: RS1001SS – Insulated End Cover Material: Stainless Steel 304 Volts: 11000 Amps: 800





Termination Procedure for Paper Lead Cable



These instructions are intended for use by Competent Persons.

Version 2



Termination Procedure for XLPE Cable



These instructions are intended for use by Competent Persons.



Termination Procedure for Unarmoured Cable





Termination Procedure for Adaptor



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High Voltage Stress Relief Instructions

11kV Unarmoured Cable







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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.