PHASE 3 CONNECTORS	**Test Report**	Date	12/07/2016
		TR	**05667**
		Powersafe Lug Convertors	
Operator: D.Maclachlan	This report is the property of Phase 3 Connectors Ltd and must not,without their written consent be passed on, copied or used for any other purpose		

Type and description of test
Powersafe Lug Convertor. Direct Resistance With 800A Current.

Object:
The object of this test is to assess the current carrying capacity of the Powersafe 800A Lug Convertor.

Test method:
A specified test current shall be applied to the contacts of the specimen for a minimum period of 3 hours or until equilibrium is reached. (Less than 1 degree per hour).
The Powersafe Lug Convertors will be fed with between 800A and 815A from the 3000A load unit via 2 x 1m lengths of HO7RN-F single core 300mm^2 cable.

Requirements:
The connectors must be capable of carrying the specified test current for a minimum period of 3 hours without exceeding the specified temperature rise.

Test Items
1 x Powersafe Line Drain Lug Convertor terminated with 300mm^2 cable and an A60-M12 Lug.
1 x Powersafe Line Source Lug Convertor terminated with 300mm^2 cable and an A60-M12 Lug.

Instrument	Description s/n	Expiry calibration
Current generation	T & R PCU1 Mk3 P.C.I.T.S. (21TE0216)	20/01//2017
External Load Unit	3000A Loading Unit	20/01/2017
YF-160A Thermocoupler +6 probes	060300489	04/02/2017

Recorded Results at the end of testing – (detailed hourly results and graph on pg4)

Probe position	Temperature °C	T (measured – ambient)	Amps
Ambient	21.5		802
Probe 1 = Drain Contact	102.2	80.7	802
Probe 2 = Drain Lug Joint	107.8	86.3	802
Probe 3 = Source Contact	95.4	73.9	802
Probe 4 = Source Lug Joint	109.7	88.2	802
Probe 5 = Cable Core	95.6	74.1	802
Probe 6 = Cable Jacket	72.0	50.5	802
Probe 7 = Insulator	64.4	42.9	802

Maximum Allowable Temperature 125°C
Maximum Recorded Temperature Rise @ Insulator Body was 42.9 ^{oC} above ambient.

Maximum Allowable Temperature of Contacts 125°C
Maximum Recorded Temperature Rise was 80.7°C above ambient.

Conclusion: Temperature Rise within BS EN 61984 -2009 and VDE allowable limits. PASS

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T&R PCU1 Mk 3 P.C.I.T.S 3000A

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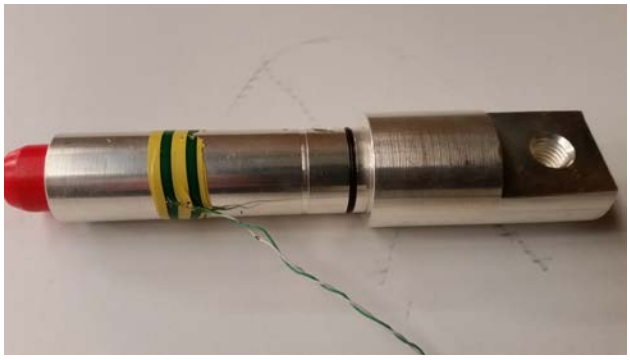

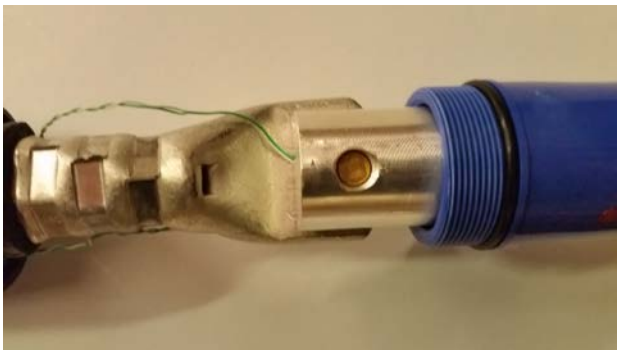

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Time	Drain Contact	Drain Lug Joint	Ambient	Source Contact	Source Lug Joint	Cable Core	Cable Jacket	Connector Body	Amps
0.5	67.9	73.0	19.0	60.3	74.1	65.3	48.3	43.1	805.0
1	84.9	90.7	19.8	74.1	90.6	79.4	61.6	54.2	803.0
1.5	92.8	97.9	20.2	83.7	97.6	81.6	65.6	58.8	801.0
2	97.1	103.4	20.1	89.1	103.6	89.1	68.2	61.3	802.0
2.5	99.3	105.3	20.4	91.8	105.8	92.1	68.9	61.9	801.0
3	100.4	106.3	19.6	93.4	108.1	94.2	69.1	62.6	801.0
3.5	101.5	107.1	21.7	94.9	109.0	94.9	71.5	63.9	800.0
4	102.1	107.9	21.6	95.3	109.6	95.5	71.9	64.3	801.0
4.5	102.2	107.9	21.8	95.5	109.7	95.7	72.1	64.4	801.0
5	102.2	107.8	21.5	95.4	109.7	95.6	72.0	64.4	802.0