
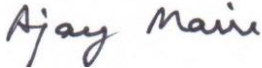


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<i>Prüfbericht - Nr.:</i>			
Client: <i>Auftraggeber:</i>	Amcontrol SWG Pty Ltd		
Test Item: <i>Gegenstand der Prüfung:</i>	5 pin FLP BBL Coupler		
Identification: <i>Bezeichnung:</i>	A000411252-001	Serial No.: <i>Serien-Nr.:</i>	N/A
Receipt No.: <i>Wareneingangs-Nr.:</i>	1113009028	Date of Receipt: <i>Eingangsdatum:</i>	2016/08/18
Testing Location: <i>Prüfart:</i>	TÜV Rheinland Australia Pty Ltd 30 Kennington Drive, Tomago NSW 2322		
Test Specification: <i>Prüfgrundlage:</i>	Tested as per requirements of AS/NZS 60079.1, Clause 15.3		
Test Result: <i>Prüfergebnis:</i>	The test item passed the test specification of AS/NZS 60079.1, Clause 15.3 Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n)		
Testing Laboratory: <i>Prüflaboratorium :</i>	TÜV Rheinland Australia Pty Ltd. 30 Kennington Drive, Tomago NSW 2322		
tested by / geprüft:	reviewed by / kontrolliert:		
2016-09-15 James Bes 	2016-09-15	Ajay Maira 	
Date <i>Datum</i>	Name <i>Name</i>	Signature <i>Unterschrift</i>	Date <i>Datum</i>
			Name <i>Name</i>
			Signature <i>Unterschrift</i>
Other Aspects / Sonstiges:			
Abbreviations:		Abkürzungen:	
P(ass) = passed	F(ail) = failed	P(ass) = entspricht Prüfgrundlage	F(ail) = entspricht nicht Prüfgrundlage
N/A = not applicable	N/T = not tested	N/A = nicht anwendbar	N/T = nicht getestet
<p>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products. Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</p>			

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1. Scope

This report covers the results of testing carried out on a 5 pin socket assembly submitted by Ampcontrol SWG Pty Ltd. The purpose of this test was to verify the ability of the socket assembly to pass the testing requirements of IEC 60079-1 clause 15.3, which involves a series of flame non-transmission tests for Group I environments.

2. Samples Tested



5 Pin BBL socket assembly previously certified to AUSEx 3818U

3. Flame non-transmission test:

Tested without plug pin assembly and a hole drilled through socket pin assembly to allow for gas flow through the test sample. This was considered worst case and allowed for direct testing of cylindrical joint. Volumes will be greatly reduced when all internal components installed. A previously certified IEC Exd 20A plug was used to mate with the socket. Removed cylindrical joint O-ring and groove to directly test the sockets cylindrical flameproof joint only.

The plug and socket assembly was tested to a higher factor of safety gas group of IIA ($55 \pm 1.0\%$ H₂ in Air), with a shorter flamepath and larger cylindrical gap than required by the standard.

Sample Test Setup:

Flamepath Dimensions:				
Flamepath Location & Type	Constructional Length (mm)	Test Length (mm)	Constructional Gap (mm)	Test Gap (mm)
Socket Cylindrical Joint	12.5 mm	6.2 mm	0.4 mm	0.4 mm

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Test date: 18/08/2016

Test Data:

<i>Test No</i>	<i>Oxygen Depletion Reading %</i>	<i>Ignition</i>	<i>Explosion Pressure</i>	<i>Flame Transmission</i>	<i>Test Result</i>
1	9.45 %	Yes	634 kPa	No	Pass
2	9.46 %	Yes	672 kPa	No	Pass
3	9.43 %	Yes	610 kPa	No	Pass
4	9.48 %	Yes	702 kPa	No	Pass
5	9.47 %	Yes	636 kPa	No	Pass

4. Result

The 5 pin BBL socket assembly sample complied with the testing requirements of clause 15.3 of IEC 60079-1:2014 as an internal ignition did not result in propagation to an identical external explosive atmosphere surrounding the test sample.

End of Report