



<b>Test Report No.:</b> 19301152 008 <i>Prüfbericht - Nr.:</i>		Page 1 of 4 Seite 1 von 4	
<b>Client:</b> <i>Auftraggeber:</i>		Electrical Safety Office Level 16, 50 Ann Street, Brisbane, Queensland, Australia, QLD 4001	
<b>Test item:</b> <i>Gegenstand der Prüfung:</i>		V-90 PVC insulated and PVC sheathed cable	
<b>Identification:</b> <i>Bezeichnung:</i>		Refer to page 2	<b>Serial No.:</b> Serien-Nr.: No Serial Number
<b>Receipt No.:</b> <i>Wareneingangs-Nr.:</i>		1113006481	<b>Date of receipt:</b> Eingangsdatum: 24/10/2013
<b>Condition of test item at delivery:</b> <i>Zustand des Prüfgegenstandes bei Anlieferung:</i>		Market sourced samples supplied by client	
<b>Testing location:</b> <i>Prüfart:</i>		TÜV Rheinland Australia Pty. Ltd. 182 Dougharty Road, Heidelberg West, Australia VIC 3081	
<b>Test specification:</b> <i>Prüfgrundlage:</i>		AS/NZS 3808:2000 including amendment 2 Insulating and sheathing materials for electric cables	
<b>Test Result:</b> <i>Prüfergebnis:</i>		The test item passed the test specifications. <i>Der vorstehend beschriebene Prüfgegenstand wurde geprüft und entspricht oben genannter Prüfgrundlage.</i>	
<b>Testing Laboratory/</b> <i>Prüflaboratorium:</i>		TÜV Rheinland Australia Pty. Ltd. 182 Dougharty Road, Heidelberg West, Australia VIC 3081	
<b>Compiled by/</b> zusammengestellt:		<b>Reviewed by/</b> kontrolliert:	
			
20/01/2014	Gergo BOGDAN	20/01/2014	Istvan SZECSEI
<b>Datum</b> Date	<b>Name/Stellung</b> Name/Position	<b>Datum</b> Date	<b>Name/Stellung</b> Name/Position
	<b>Unterschrift</b> Signature		<b>Unterschrift</b> Signature
<b>Other Aspects/</b> Sonstiges:			
As per client's request test procedure was limited to tensile strength and elongation measurement of unaged and aged samples.			
<b>Abkürzungen:</b>		<b>Abbreviations:</b>	
P(ass) = entspricht Prüfgrundlage		P(ass) = passed	
F(ail) = entspricht nicht Prüfgrundlage		F(ail) = failed	
N/A = nicht anwendbar		N/A = not applicable	
N/T = nicht getestet		N/T = not tested	
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.			

Revision 5.0

Accredited for compliance  
with ISO/IEC 17025  
Technical Competence



**Test Report**  
**AS/NZS 3808:2000 including amendment 2**  
Insulating and sheathing materials for electric cables

**Test item particulars:**

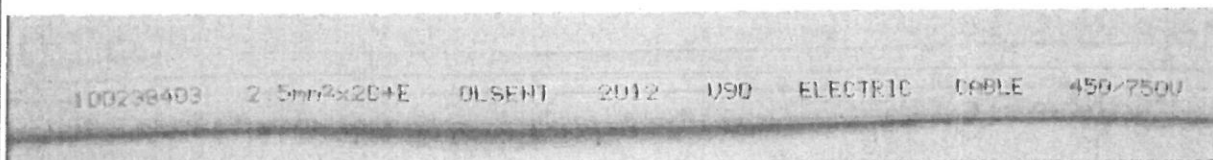
Test item is a V-90 PVC insulated 3V-90 PVC sheathed cable.

**General remarks:**

1. This report shall not be reproduced, except in full.
2. Details in test data / test plan no. 1113006481
3. Specification applied:  
AS/NZS 3808:2000 inc. amendment 2  
AS/NZS 1660.2.1:1998 inc. amendment 1  
AS/NZS 1660.2.3:1998 inc. amendment 1
4. Reporting of results herein is in accordance with NATA recommendations taking into account U of M.  
(a) For minimum limits - Where measurement is on the limit or above the limit it is deemed to comply.  
Where measurement is below the limit it is deemed not to comply.  
(b) For maximum limits - Where measurement is on the limit or below the limit it is deemed to comply.  
Where measurement is above the limit it is deemed not to comply.
5. For reporting of results the estimated uncertainty for measurement taken into account at 95% confidence level.
6. This test report is based on assessment and tests applied to the specific test item(s) as submitted by the client. TÜV Rheinland Australia disclaims any and all responsibility or obligation for any other item.
7. Test procedure limited to Table 5 items A and B, Table 6 items A and B of AS/NZS 3808.
8. Due to absence of datasheet and ratings and based on properties of unaged test samples, PVC oversheath was assessed as 3V-90 rated..

**Markings on cable:**

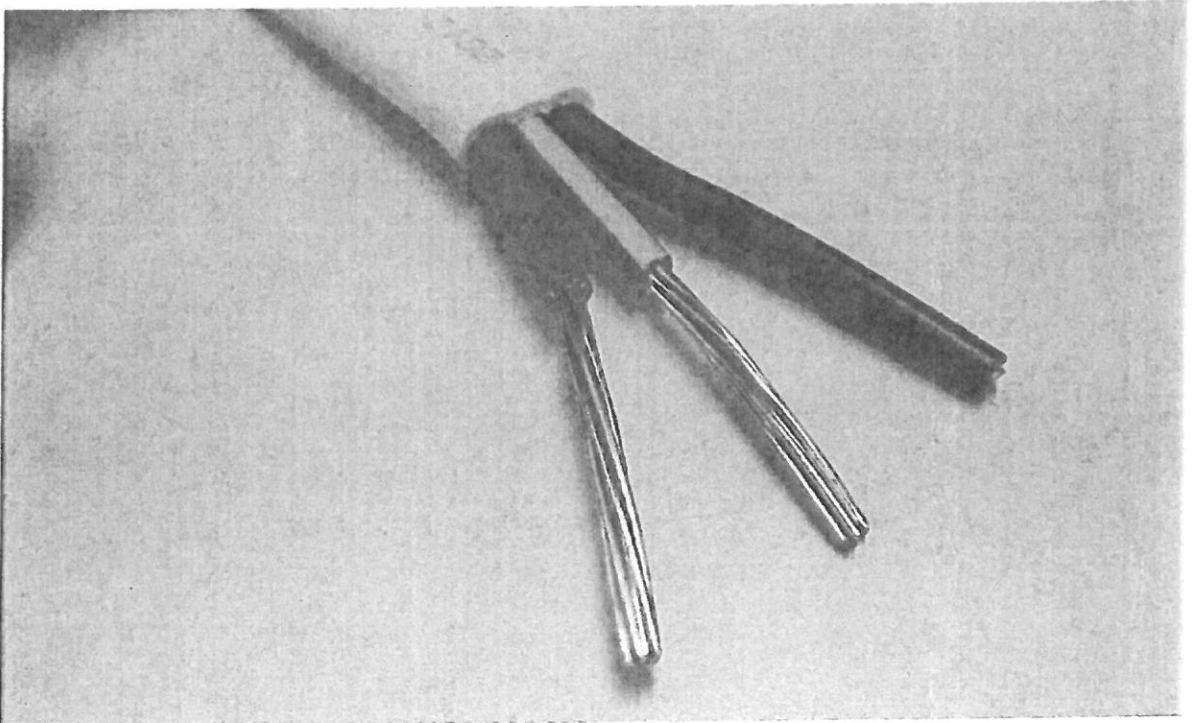
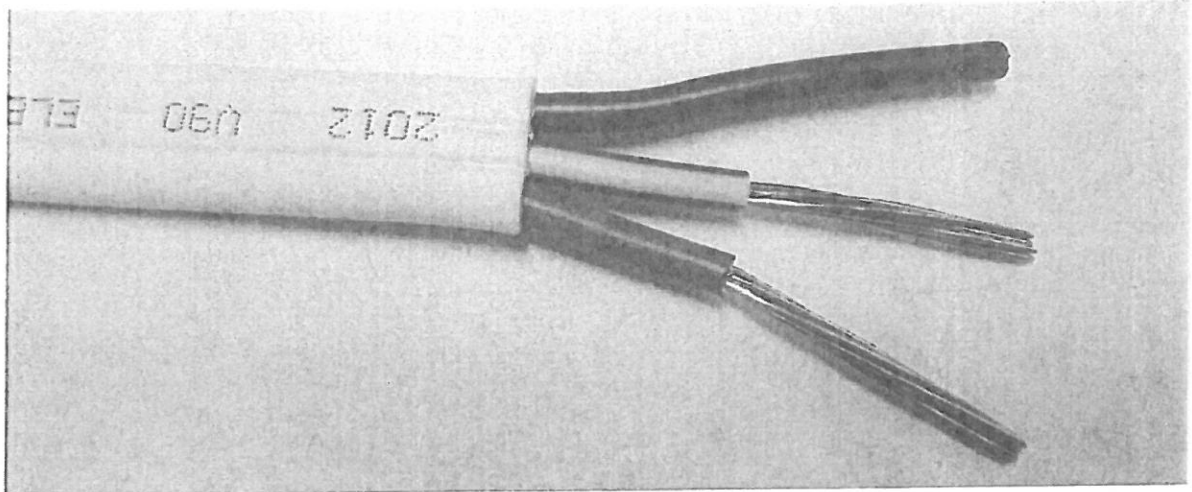
" 100238403 2.5mm<sup>2</sup> x2C+E OLSENT 2012 V90 ELECTRIC CABLE 450/750V "

**Options/accessories/ancillary equipment:**

The equipment was tested without any optional accessory installed. Hence, this report does not cover parameters that are influenced by the installation of optional accessory that might affect safety in the meaning of this standard.

AS/NZS 3808:2000 inc. amendment 2			
Clause	Requirement + Test	Result - Remark	Verdict
<b>4</b>	<b>Materials</b>		-
4.1	Insulating material type	V-90	-
4.2	Sheathing material type	3V-90	-
<b>5</b>	<b>Tests and criteria</b>		-
	The properties of materials are specified in the following tables:		-
	Requirements applicable for Insulating material:	Table 5	-
	Requirements applicable for Sheathing material:	Table 6	-
<b>Table 5</b>	<b>Tests and criteria for insulation</b>		<b>P</b>
A	Mechanical tests without ageing:		P
A.1	Tensile strength - min. 12.5 MPa	Red core: 15.85MPa Black core: 16.22MPa Gr-Ye core: 15.28MPa	P
A.2	Elongation at rupture - min. 150%	Red core: 229.1% Black core: 218.9% Gr-Ye core: 215.6%	P
B	Mechanical tests after ageing in air oven: 504 h at 115 ± 2 °C		P
B.1	Tensile strength - min. 75% of value of unaged specimens	Red core: 117.34MPa Black core: 16.59MPa Gr-Ye core: 16.71MPa	P
B.2	Elongation at break - min. 65% of value of unaged specimens	Red core: 166.0% Black core: 152.0% Gr-Ye core: 176.5%	P
<b>Table 6</b>	<b>Tests and criteria for sheath</b>		<b>P</b>
A	Mechanical tests without ageing:		P
A.1	Tensile strength - min. 6.0 MPa	Measured: 8.50MPa	P
A.2	Elongation at rupture - min. 150%	Measured: 194.0%	P
B	Mechanical tests after ageing in air oven: 504 h at 115 ± 2 °C		P
B.1	Tensile strength - min. 75% of value of unaged specimens	Measured: 9.80MPa	P
B.2	Elongation at break - min. 65% of value of unaged specimens	Measured: 160.3%	P

PHOTOS



End of the Test report