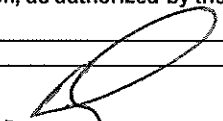


Supplier Declaration of Conformity (SDoC)

In accordance with ISO/IEC 17050-1:2004

SDoC identification Number(1) - AS/NZS 5000.2 – 2016/01	
Issuer details	
Name (2) (of New Zealand manufacturer or importer)	Contact Address
Tycab New Zealand Limited	6A Donnor Place PO Box 132 247 Sylvia Park Mt Wellington Auckland 1644
New Zealand Company Number (if applicable)	
498479 NZBN: 9419039137081	
Telephone	Fax
(09) 573 1990	(09) 573 1006
Email address	
info@tycab.co.nz	
Medium Risk Article – Details (3) (Product name, type, rating, brand, model, batch numbers, and serial numbers, as applicable)	
Building House Wire Non Migratory V90 Flat – Code Prefix BED 450/750 Volt	
The medium risk article listed above, fully complies with the standard(s), as listed:-	
Standard number & issue year:- AS/NZS 5000.2 : 2006	
Standard Title:- Electric Cables – Polymeric Insulated - For working voltages up to and including 450/750 V	
Or complies with the Conformity Cooperation Agreement –Yes / No (Delete as applicable)	
Names and addresses of any testing organisation or body	
Name(s)	Address(es)
Tycab Australia Pty Limited	269 Frankston-Dandenong Road Dandenong Victoria 3175 Australia
Reference to relevant test reports/certification, and issue date of the reports/certification, that show how compliance is achieved:-	
Report/Certification N°(s)	Issue date(s)
TTR – NON MIG	2 nd March 2017
Reference to any management systems involved:-	
Additional (4) information	
Declaration	
I hereby declare that the above specified fittings or electrical appliances comply with the requirements of Regulation 83 of the Electricity (Safety) Regulations 2010	
Issuer Identification: (as affixed to the article)	TYCAB
Signed for and on behalf of:	Tycab NZ Limited
Name (5) & position, as authorized by the issuer	Paul Lash, General Manager
Signature	Date
	3 rd March 2017

1. Every declaration of conformity should be uniquely identified.
2. The responsible issuer must be unequivocally specified.
3. The "Article" must be unequivocally described so that the declaration of conformity may be related to the article in question. For mass produced products, it is not necessary to give individual serial numbers. Where variants of an article are to be covered, these must be detailed.
4. Text should appear here only if any limitation on the validity of the declaration of conformity and/or any additional information are given.
5. Full name and function of the signing person(s) authorised by the issuer's management to sign on its behalf should be given. The number of signatures, or equivalent, included will be the minimum determined by the legal form of the issuer's organization.

Continuing validity of the declaration of conformity

The issuer of the declaration of conformity shall have procedures in place to ensure the continued conformity of the medium risk article, as delivered or accepted, with the stated requirements of the declaration of conformity. The issuer of the declaration of conformity shall have procedures in place to re-evaluate the validity of the declaration of conformity, in the event of:-

- a) changes significantly affecting the article design or specification,
- b) changes to the standards which conformity of the article is stated,
- c) changes in the ownership or structure of management of the supplier,
- d) if relevant, or relevant information indicating that the article may no longer conform to the specified requirements.

Additional information regarding the declaration

"Issuer Identification" as affixed to the article:- this marking should identify the issuer of the SDoC and may be for example in the form of a NZ GST N°, NZ Company N°, Unique NZ brand name or trademark, or SCN issued by Radio Spectrum Management (this number can be used, even if a C-tick is not required for the article), etc. Failure to mark a product with such unique identification may result in the issuer being held responsible for compliance of an article that may not have been supplied by the issuer, unless the issuer can prove otherwise! This is particularly relevant where the same or very similar model is or may be imported or manufactured, by other NZ suppliers.

A copy of the SDoC and test report(s) (certification) and/or other supporting compliance documentation must be available, if the supporting compliance documentation is not available directly from issuer, the name and address of from where it can be obtained from, must be provided by any supplier within the New Zealand supply chain. (Note: A copy of the SDoC and supporting documentation must be available within 10 working days after being asked to do so, by Energy Safety, a purchaser, or other consumer, of the article declared).

A person who sells or offers for sale, a declared medium risk article commits an offence, if at the time of sale or offer to sell, a valid declaration of conformity for the article has not been made, or the person cannot provide a copy of the declaration of conformity, along with the required supporting documentation, within the timeframe allowed. Penalties associated with a grade A offence are fines, not exceeding \$10,000 for an individual or \$50,000 for a body corporate (company) if successfully prosecuted, or a fixed infringement fee, of \$1,000 for an individual or \$3,000 for a body corporate (company).

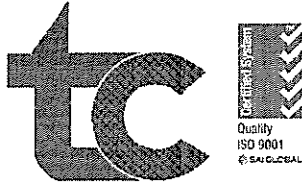
Listings of the current regulatory definitions for electrical equipment deemed to be medium risk articles, can be found at: <http://www.energysafety.govt.nz/templates/MultipageDocumentTOC24889.aspx> within the Energy Safety website; <http://www.energysafety.govt.nz>

This form can be edited to increase any text box size, in order to insert more detail, than the current space allows, if required.

This is an example ISO/IEC 17050-1 form for a recognised declaration of conformity; any other form complying with the requirements of ISO/IEC 17050-1:2004, may be used instead, for the purpose of Electricity Regulation 83.

Nothing prevents this form being extended to act as an SDoC, for other regulatory purposes.

**THIS COMPLETED FORM REMAINS WITH THE ISSUER AS PART OF THE DOCUMENTATION
REQUIRED AS EVIDENCE OF COMPLIANCE
DO NOT SUBMIT A COPY OF THIS FORM TO ENERGY SAFETY, UNLESS SPECIFICALLY
REQUESTED TO DO SO**



TYCAB AUSTRALIA

A MEMBER OF THE TYREE GROUP OF COMPANIES

A.C.N. 000 973 035
 269 FRANKSTON-DANDENONG ROAD
 (LOCKED BAG 1413)
 DANDENONG STH VICTORIA 3164

TELEPHONE 03 (Int. 613) 8791 0300
 FAX - ADMIN 03 (Int. 613) 9794 0031
 FAX - SALES 03 (Int. 613) 9791 8732

Date:	02-03-2017	Tycab Test Report:		TTR - NON MIG	
Tests to	AS/NZS5000.2				
Product types	450/750 Volt	House-Wire V90 Flat			
Tycab Product Code	BED37067	✓	BED3705	✓	
Tycab Product Code	BED37085	✓	BED3G05	✓	

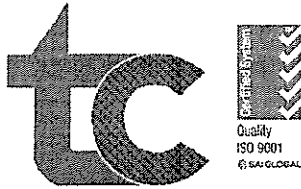
1. CONDUCTORS

Conductor Resistance ohms/km @20c		Plain Copper		ref: AS1125		Results
Product Code	BED37067	BED3705	BED37085	BED3G05		
Size mm ²	2.5	1.5	4 2.5 Earth	1.5		
Cond. Class	2	2	2	2		
Req'd max	7.41	13.6	4.61	7.41	13.6	
Obtained	7.06	13.21	4.52	7.10	13.24	Complied

Conductor strand elongation %		Plain Copper		TEST : sample		ref: AS1125		Results
Product Code	BED37067	BED3705	BED37085	BED3G05				
Size mm ²	2.5	1.5	4 2.5 Earth	1.5				
min. ave. req.	18	14	18	18	14			
Obtained	28	25	26	27	24			Complied

2. MATERIAL Insulation Mechanical tests

Material Type V90		TEST : type test		ref: AS3808		Results
		Min		Obtained		
Tensile strength MPa		12.5		14.7		Complied
Elongation at break %		150		230		Complied
After ageing for	21 Days @ 115 C	Min % RET		Obtained Value	Obtained % RET	Complied
Tensile strength MPa		75		16.4	112	Complied
Elongation at break %		65		200	87	Complied
		Min	Max	Obtained		
Loss of Mass mg/cm ²	5 Days @115 C		2.5	1.2		Complied
Pressure Test %			50	35		Complied
Insulation resistant (Ki) @ 20C Gohm.m		40		220		Complied
Insulation resistant (Ki) @ 75C Gohm.m		0.02		0.21		Complied



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Date:	02-03-2017	Tycab Test Report:	TTR - NON MIG
Tests to	AS/NZS5000.2		
Product types	450/750 Volt	House-Wire V90 Flat	
Tycab Product Code	BED37067	✓	BED3705 ✓
Tycab Product Code	BED37085	✓	BED3G05 ✓

3. MATERIAL
Sheath
Mechanical tests

Material Type 3V90 TEST : type test ref : AS3808 Results

	Min	Obtained	Results
Tensile strength MPa	6.0	6.5	Complied
Elongation at break %	150	154	Complied

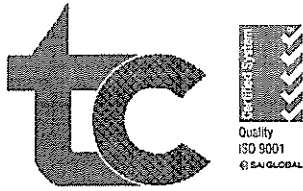
After ageing for	Min % RET	Obtained Value	Obtained % RET	Complied
21 Days @ 115 C				
Tensile strength MPa	75	9.2	142	Complied
Elongation at break %	65	107	69.5	Complied

	Min	Max	Obtained	Results
Loss of Mass mg/cm ²		2.5	1.47	Complied
Pressure Test %		50	23	Complied

4. CABLE MEASUREMENTS

INSULATION TEST : sample & routine ref : AS5000.2 Results

Product Code	BED37067	BED3G05	BED3705	BED37085	Results
Size mm ²	2.5	1.5	1.5	4 + Earth 2.5	
Core Numbers	3	3	3	2 1	
Actual diameter	3.34	2.63	2.68	4.28 3.60	Complied
req'd nom wall	0.7	0.56	0.6	0.76 0.66	
obt'd nom wall	0.7	0.57	0.60	0.90 0.82	Complied
req'd min at any point	0.53	0.44	0.44	0.62 0.53	
obt'd min wall at any point	0.54	0.46	0.52	0.73 0.73	Complied



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Date: 02-03-2017 **Tycab Test Report:** **TTR - NON MIG**

Tests to AS/NZS5000.2

Product types 450/750 Volt House-Wire V90 Flat

Tycab Product Code BED37067 ✓ BED3705 ✓

Tycab Product Code BED37085 ✓ BED3G05 ✓

5. CABLE MEASUREMENTS

SHEATH	TEST : sample & routine								Results
Product Code	BED37067		BED3G05		BED3705		BED37085		
Size mm ²	2.5		1.5		1.5		4 + Earth 2.5		
Core Numbers	3		3		3		3		
Actual diameter	5.56		4.80		4.64		6.35		Complied
req'd nom wall	1.0		0.86		0.9		1.06		
obt'd nom wall	1.0		0.94		0.9		1.10		Complied
req'd min at any point	0.75		0.67		0.67		0.84		
obt'd min wall at any point	0.78		0.84		0.69		0.84		Complied

Signed

Bob Stutsel
Technical Manager