ENERGY CABLES

Building & Construction FLAT TPS

2C + E Copper

APPLICATION		
Easi-peel sheath for general wiring unenclosed, enclosed in conduit, or in underground ducts for domestic, commercial and industrial installations where not subject to mechanical damage.	STANDARD	AS/NZS 5000.2
	VOLTAGE	450/750V
	CONDUCTOR	Copper 1 - 16mm^2
	INSULATION	PVC, V-90 Red, Black & Green/Yellow
	SHEATH	PVC, 3V-90 White
	MAX. OPERATING TEMP.	90 °C

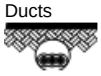
TECHNICAL SPECIFICATIONS

ITEM NUMBER	CONDUCTOR		OVERALL DIAMETER	APPROX. MASS kg/km	MINIMUM INSTALLED BENDING RADIUS mm
	mm^2	(No./mm)	NOMINAL mm		
16100199	1	1/1.13	4.6 x 9.4	90	60
16110199	1.5	7/0.50	4.7 x 10.2	110	65
16120199	1.5	1/1.38	4.7 x 9.9	115	60
16130199	2.5	1/1.78	5.5 x 12.1	175	75
16140199	2.5	7/0.67	5.5 x 12.4	165	75
16150199	4	7/0.85	6.5 x 14.0	200	85
16160199	6	7/1.04	7.1 x 15.2	285	95
16170199	10	7/1.35	8.5 x 18.6	425	115
16175199	16	7/1.70	9.7 x 21.4	610	130

GENERAL CABLE AUSTRALIA PTY LTD
Level 1, 591-595 Blackburn Road
Notting Hill VIC 3168
Locked Bag 220, Clayton VIC 3168, Australia
Phone: 1300 363 282
FAX: 1300 363 382
EMAIL: sales@generalcable.com.au

Diagrams of cables are illustrative only and are not necessarily to scale. General Cable New Zealand Limited and General Cable Australia Pty Ltd reserves the right to change or vary the construction of any of their products without notice. Whilst every care has been taken in the preparation of this publication, General Cable New Zealand Limited and General Cable Australia Pty Ltd accept no liability of any kind and are not responsible for the results of any actions taken on the basis of this information or resulting from errors or omissions. This technical data sheet is intended as a guide only; any person using it must make reference to the appropriate local standards or authorities. All rights reserved. No part of this work covered by copyright may be reproduced or copied in any form or by any means without the written permission of General Cable New Zealand Limited. or General Cable Australia Pty Ltd. © 2001.

TECHNICAL SPECIFICATIONS – Continued

CONDUCTOR	CURRENT RATING (a)			ELECTRICAL CHARACTERISTICS			
Nominal Area mm^2	Unenclosed In Air A	Surrounded by thermal insulation A	Buried In Ducts  A	Maximum DC Resistance @20°C Ω/km	Maximum AC Resistance @90°C Ω/km	Equivalent Star Reactance Ω/km	Single Phase Voltage Drop @90°C mV/Am
1 (1/1.13)	14	7	17	18.2	27.0	0.119	54.1
1.5 (7/0.50)	18	9	21	13.6	17.3	0.111	34.7
1.5 (1/1.38)	18	9	21	12.1	17.3	0.111	34.7
2.5 (1/1.78)	26	13	30	7.41	9.45	0.102	18.9
2.5 (7/0.67)	26	13	30	7.41	9.45	0.102	18.9
4 (7/0.85)	34	17	39	4.61	5.88	0.102	11.8
6 (7/1.04)	44	22	50	3.08	3.93	0.0967	7.85
10 (7/1.35)	60	30	66	1.83	2.33	0.0906	4.68
16 (7/1.70)	80	40	86	1.15	1.47	0.0861	2.95

(a) Based on 40°C ambient air temperature and where applicable, burial depth of 0.5m, soil temperature of 25°C and soil resistivity of 1.2°C.m/W.

The above information is from the following sources:

- AS/NZS 3008.1.1 (tables 10, 30, 35, 42)
- AS 1125 (tables 2.2, 2.3)

For installation with thermal insulation refer to AS/NZS 3008 for de-rating factors.
Do not put in direct contact with polystyrene, polyurethane or similar thermal insulation materials.

ACTIVE / CONDUCTOR				EARTH CONDUCTOR		
NOMINAL AREA mm^2		NOMINAL DIAMETER mm	MIN. INSULATION THICKNESS mm	NOMINAL AREA mm^2	NO. & DIAMETER OF WIRES No/mm	MIN. INSULATION THICKNESS mm
1	1/1.13	1.1	0.6	1.5	7/0.50	0.6
1.5	7/0.50	1.5	0.6	1.5	7/0.50	0.6
1.5	1/1.38	1.4	0.6	1.5	7/0.50	0.6
2.5	7/0.67	1.8	0.7	2.5	7/0.67	0.7
2.5	1/1.78	2.0	0.7	2.5	7/0.67	0.7
4	7/0.85	2.5	0.8	2.5	7/0.67	0.7
6	7/1.04	3.1	0.8	2.5	7/0.67	0.7
10	7/1.35	3.9	1.0	4.0	7/0.85	0.8
16	7/1.70	4.9	1.0	6.0	7/1.04	0.8

General Cable

GENERAL CABLE AUSTRALIA PTY LTD
Level 1, 591-595 Blackburn Road
Notting Hill VIC 3168
Locked Bag 220, Clayton VIC 3168, Australia
Phone: 1300 363 282
FAX: 1300 363 382
EMAIL: sales@generalcable.com.au

Diagrams of cables are illustrative only and are not necessarily to scale. General Cable New Zealand Limited and General Cable Australia Pty Ltd reserves the right to change or vary the construction of any of their products without notice. Whilst every care has been taken in the preparation of this publication, General Cable New Zealand Limited and General Cable Australia Pty Ltd accept no liability of any kind and are not responsible for the results of any actions taken on the basis of this information or resulting from errors or omissions. This technical data sheet is intended as a guide only; any person using it must make reference to the appropriate local standards or authorities. All rights reserved. No part of this work covered by copyright may be reproduced or copied in any form or by any means without the written permission of General Cable New Zealand Limited. or General Cable Australia Pty Ltd. © 2001.