

PVC Electrical and Telecommunications

CNBN100445

100 TELCO PIPE SWJ X4.5M FC NBN COMM



Application

Designed to protect cables in a range of buried and above ground installations.

Features

- Australian made
- BEP PVC - manufactured from Best Environmental Practice
- Corrosion resistant
- Electrically nonconductive

Technical Data

Product Properties

Material	PVC
Colour	White
Joint type	Solvent Weld Joint
Unprotected UV exposure	3 months

Product Dimensions²

Minimum effective length	4401mm
Mean Pipe OD	114.1mm
Mean Pipe ID	104.6mm
Wall thickness	4.5mm

Material Properties

Specific gravity	1.43 - 1.5
Ring bending modulus (3mins)	3200 MPa
Ring bending modulus (50 years)	1400 MPa
Poissons ratio	0.38

Thermal

Coefficient of thermal expansion	$7 \times 10^{-5} / ^\circ\text{C}$
Thermal conductivity	$0.138 - 0.150 \text{ W.m}^{-1}\text{C}^{-1}$
Maximum practicable working temperature	60°C

Fire resistance

Flammability	Will not support combustion
Ignitability - AS 1530*	7
Smoke Development - AS 1530*	9
Spread of flame - AS 1530*	0
Heat evolved - AS 1530*	2

*AWTA test report number 7-558803-CV

Electrical

Volume resistivity	10 ¹⁵ ohm.cm
Surface resistivity	≥10 ¹³ ohm
Power factor	0.02 @10 ⁶ HZ
Dielectric constant	3.3 - 3.2 @ 106 Hz

Standards

Product standard	Referenced Australian electrical and telecommunications product standards include AS/NZS 2053 (various parts) AS/NZS 61386.1 AS/NZS 61386.21 AS/NZS 4296 AS/NZS 5033 AS/NZ 4702 AS/NZS 3000
Environmental accreditation	Best Environmental Practice PVC - BEP PVC Certification No. BEP-PVC 0037

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