Prysmian Australia Pty Ltd
A.C.N. 096 594 080 A.B.N. 36 096 594 080

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Prysmian Group

CABLE DESCRIPTION

0.6/1 (1.2) kV 240 mm² 4-Core Aluminium Solid Sector Shaped Conductor, X-90 XLPE Insulated Cores, Laid-Up Circular, Polypropylene Taped, 5V-90 PVC (UV) Sheath, Circular Distribution Type Cable

STANDARD	To AS/NZS 4026 Section 4

CABLE PART NUMBERS	
PRYSMIAN CODE	20199333
AUSNET	005195
JEMENA	11000882
UE	13264

PHYSICAL CHARACTERISTICS

Conductor C.S.A.	Nominal	(mm²)	240
Conductor	Width	mm	23.1
	Depth	(mm)	16.6
	Back Radius	(mm)	18.6
Number Of Cores		-	4
Insulation Thickness	Min Ave	(mm)	1.7
Insulation Thickness	MAP	(mm)	1.43
Overall Cable Diameter	Nominal	(mm)	49.3
Sheath Thickness	Nominal	(mm)	2.80
Sheath Thickness	MAP	(mm)	2.28
Cable Mass	(Approx.)	(kg/m)	3.59
Maximum Side Wall Bearing Pressure		(kg/m)	1,450
Minimum Bending Radius	During Installation	(mm)	610
	Installed	(mm)	410
Max. Pulling Tension	Stocking [c]	(kN)	6.1
	Conductor [c]	(kN)	25.0

CROSS-SECTIONAL DRAWING (NTS) [d]



ELECTRICAL CHARACTERISTICS [a]

Max. DC Resistance	@ 20˚C	(Ω/km)	0.125
Max. AC Resistance @ 50Hz	@ 90˚C	(Ω/km)	0.162
Normal Operating Temperature		˚C	90
Maximum Short Circuit Temperature		˚C	250
Three-Phase Symmetrical Fault Rating For 1 Second		(kA/1 Sec.)	22.7
Inductive Reactance @ 50 Hz	@ 90˚C	(Ω/km)	0.062
Voltage Drop (Three-Phase) Maximum	@ 90˚C	mV/A.m	0.300
Positive and Negative Sequence Impedance	@ 90˚C	(Ω/km)	0.162 + j0.062
Zero Sequence Impedance	@ 20˚C	(Ω/km)	0.500 + j0.062
Continuous Current Rating Buried Direct (Soil @ 25°C)[b]		(A)	395
Continuous Current Rating Underground In Duct (Soil @ 25°C)[b]		(A)	330

(a) Values given are calculated only.

(b) Based on 90°C conductor temperature and where applicable, burial depth of 0.6 m, soil temperature 25°C respectively and soil thermal resistivity of 1.2°C.m/W, Nominal Duct Size 80mm. Refer to AS/NZS 3008.1.1 for other installation conditions.

(c) To avoid exceeding maximum sidewall bearing pressure (SWBP) of 1,450 kg/m, maximum pulling tension (T) and minimum bending radius (R) indicated above may have to be reduced and increased respectively by using the formula SWBP (kg/m) = T (kN) / [0.0098 x R (m)].

(d) Colours are for illustration only and may not necessarily reflect actual colours in final product.

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Customer Acceptance:
Name: _____
Position: _____
Company: _____
Date: _____

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