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Group

CABLE DESCRIPTION 0.6/1 (1.2) kV 16 mm² 4-Core Stranded Circular Uncompacted Annealed Copper Conductor, X-90 XLPE Insulated Cores, Layed-Up Circular, Unfilled, Polypropylene Taped, 5V-90 PVC (UV) Sheath, Circular Distribution Type Cable (CC 2352) CABLE PART NUMBERS PRYSMIAN CODE 20199341 (5099409) To AS/NZS 4026-5 & Networks NSW LV STANDARD AUSGRID 148668 Underground Specification Ver: March 2014 ESSENTIAL N/A 1007634 ENDEAVOUR ENERGY CROSS-SECTIONAL DRAWING (NTS) (d) PHYSICAL CHARACTERISTICS Conductor C.S.A. 16 Nominal (mm²) 7/1.70 Conductor Stranding Nominal No./mm Conductor Diameter 5.11 Nominal (mm)Number Of Cores _ 4 Insulation Thickness Min Ave (mm) 1.5 Insulation Thickness MAP 1.25 (mm) Diameter Over Insulation Nominal 8.3 (mm) Overall Cable Diameter Nominal (mm) 24.0 Sheath Thickness Nominal 1.80 (mm) Sheath Thickness MAP 1.43 (mm) Cable Mass 0.8738 (Approx.) (kg/m)Maximum Side Wall Bearing Pressure 1,450 (kg/m)**During Installation** (mm)145 Minimum Bending Radius Installed 95 (mm)Max. Pulling Tension Stocking (c) 2.6 (kN) Conductor (c) (kN)4.5 ELECTRICAL CHARACTERISTICS (a) Max. DC Resistance @ 20°C (Ω/km) 1.15 Max. AC Resistance @ 50Hz 1.47 @ 90°C (Ω/km) Normal Operating Temperature °C 90 Maximum Short Circuit Temperature 250 °C Three-Phase Symmetrical Fault Rating For 1 Second (kA/1 Sec.) 2.3 Inductive Reactance @ 50 Hz @ 90°C (Ω/km) 0.089 Voltage Drop (Three-Phase) Maximum @ 90°C mV/A.m 2.55 1.47 + j0.089 Positive and Negative Sequence Impedance @ 90°C (Ω/km) 4.60 + j0.089 Zero Sequence Impedance @ 20°C (Ω/km) Continuous Current Rating Buried Direct (Soil @ 25°C)^(b) 110 (A) Continuous Current Rating Underground In Duct (Soil @ 25°C)^(b) (A) 83 (a) Values given are calculated only. (b) Based on 90°C conductor temperature and where applicable, burial depth of 0.5 m, soil temperature 25°C respectively and soil thermal resistivity of 1.2°C.m/W, Duct Size Ø = 62 mm (O.D.) x 50 mm (I.D.).. Refer to AS/NZS 3008.1 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. Prysmian Australia Pty Ltd Customer Acceptance: Prepared By: Name: Name: Locked Bag 7042 Robert Montero Position: Cable Design Team Leader Liverpool Business Centre 1871 NSW, Australia Position: Issue Date: 04-12-2015 Issue No: 1 (pp 1/2) Company: Telephone: 1300 300 304 Reason For Re-issue: NOT APPLICABLE Facsimile: 1300 300 307 Date:

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0.6/1 (1.2) kV 16 mm ² 4-Core Stranded Circular Uncompacted Annealed Copper Conductor, X-90								
XLPE Insulated Cores, Layed-Up Circular, Unfilled, Polypropylene Taped, 5V-90 PVC (UV) Sheath, Circular Distribution Type Cable (CC 2352)								
Circular Distri		CABLE PART NUMBERS						
			PRYSMIAN CODE		20199341 (5099409)			
STANDARD	To AS/NZS 4026-5 & Networks NSW LV		AUSGRID		148668			
			ESSENTIAL		N / A			
			ENDEAVOUR ENERGY		1007634			
DIMENSIONS								
DESCRIPTION				INIMUM Ø MAXIMUM Ø (mm) (mm)				
Conductor			5.	5.0 5.1		1		
Diameter Over Insulation			8.	8.0 8.3		3		
Diameter Over Layed-Up Assembly			19	.2	20.1			
Diameter Over Polypropylene Containing Tape Over Lay-Up			19	.5	20.4			
Diameter Over 5V-90 PVC Sheath			22	22.6 24.0		0		
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Prysmian Australia Pty Ltd Locked Bag 7042			Nam	Prepared By: Name: Robert Montero				
Liverpool Business Centre 1	871 NSW, Australia	Position:	Posi	ition:	Cable Design Team Leader			
Telephone: 1300 300 304 Facsimile: 1300 300 307	Facsimile: 1300 300 307			e Date: son For Re-issue: NO		e No: 1 (pp 2/2)		
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