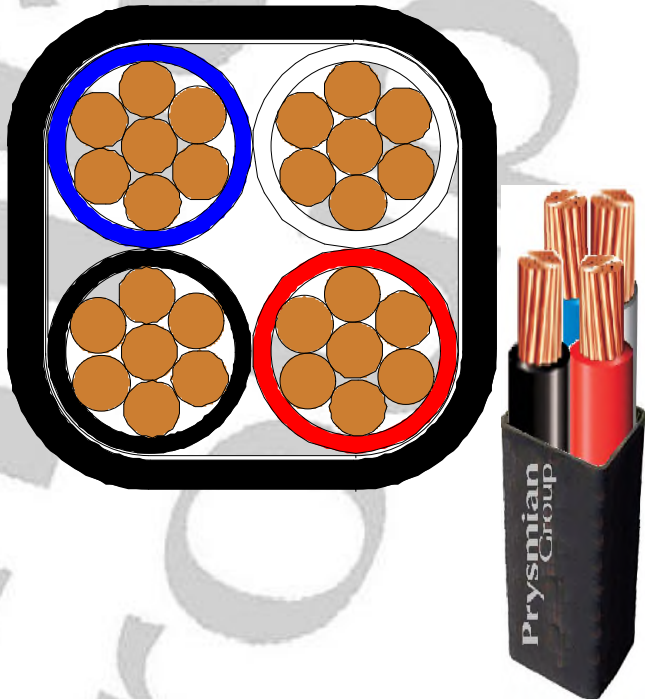


## CABLE DESCRIPTION

**0.6/1 (1.2) kV 16 mm<sup>2</sup> 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)**

STANDARD	To AS/NZS 4026-5 & Networks NSW LV Underground Specification Ver: March 2014	CABLE PART NUMBERS	
		PRYSMIAN CODE	20199341 (5099409)
		AUSGRID	148668
		ESSENTIAL	N / A
		ENDEAVOUR ENERGY	1007634

PHYSICAL CHARACTERISTICS				CROSS-SECTIONAL DRAWING (NTS) <sup>(d)</sup>	
Conductor C.S.A.	Nominal	(mm <sup>2</sup> )	16		
Conductor Stranding	Nominal	No./mm	7/1.70		
Conductor Diameter	Nominal	(mm)	5.11		
Number Of Cores		-	4		
Insulation Thickness	Min Ave	(mm)	1.5		
Insulation Thickness	MAP	(mm)	1.25		
Diameter Over Insulation	Nominal	(mm)	8.3		
Overall Cable Diameter	Nominal	(mm)	24.0		
Sheath Thickness	Nominal	(mm)	1.80		
Sheath Thickness	MAP	(mm)	1.43		
Cable Mass	(Approx.)	(kg/m)	0.8738		
Maximum Side Wall Bearing Pressure		(kg/m)	1,450		
Minimum Bending Radius	During Installation	(mm)	145		
	Installed	(mm)	95		
Max. Pulling Tension	Stocking <sup>(c)</sup>	(kN)	2.6		
	Conductor <sup>(c)</sup>	(kN)	4.5		

ELECTRICAL CHARACTERISTICS <sup>(a)</sup>			
Max. DC Resistance	@ 20°C	(Ω/km)	1.15
Max. AC Resistance @ 50Hz	@ 90°C	(Ω/km)	1.47
Normal Operating Temperature		°C	90
Maximum Short Circuit Temperature		°C	250
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
Positive and Negative Sequence Impedance	@ 90°C	(Ω/km)	1.47 + j0.089
Zero Sequence Impedance	@ 20°C	(Ω/km)	4.60 + j0.089
Continuous Current Rating Buried Direct (Soil @ 25°C) <sup>(b)</sup>		(A)	110
Continuous Current Rating Underground In Duct (Soil @ 25°C) <sup>(b)</sup>		(A)	83

<sup>(a)</sup> Values given are calculated only.

<sup>(b)</sup> 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.

<sup>(c)</sup> 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)].

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

