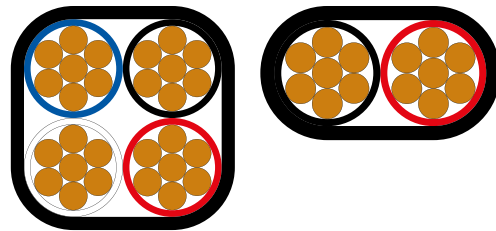
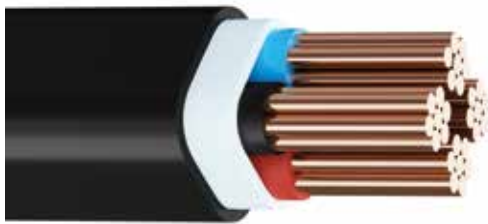


UNDERGROUND RESIDENTIAL DISTRIBUTION (URD) SERVICE CABLE

0.6/1 (1.2) kV LOW VOLTAGE CABLE



Application

Underground residential distribution (URD) service cable is used as final supply to residential dwellings.

Approvals

Approved by all power Utilities and Commercial customers in Australia. AS/NZS 4026 Section 5.

Behaviour in flame and fire:

PVC outer sheath exceeds the requirements of IEC 60332-1.

Temperature range

Minimum installation temperature: 0 °C
 Maximum operating temperature: +90 °C
 Minimum operating temperature: -25 °C

Minimum bending radius

Installed cables: 4D for 16 mm²
 6D ≥ 25 mm²
 During installation: 6D for 16 mm²
 9D ≥ 25 mm²

Resistance to

Chemical exposure: Accidental
 Mechanical impact: Light
 Water exposure: Spray
 Solar radiation and weather exposure: Good

Cable design

Conductor:

Plain Annealed Circular Stranded Copper

Insulation options:

X-90 (XLPE)

Colours: 2 core cable Red, Black

Colours: 4 core cable Red, White, Blue, Black

Lay up:

Unfilled and taped

Covering:

5V-90 Black UV stabilised

Installation conditions

In duct

In trench

In ground with protection

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group; any modification or alteration afterwards of product may give different result. The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.



Physical & Electrical Characteristics

Product code	Number of cores	Conductor			Cable				Minimum installed bending radius mm
		Nominal C.S.A mm ²	Number and diameter of wires No/mm	Nominal diameter mm	Nominal insulation thickness mm	Overall diameter		Approx. mass kg/100 m	
						Minimum mm	Maximum mm		
Flat									
162CXUNFBK	2	16	7 / 1.70	5,1	1,5	18.5 x 10.6	19.4 x 11.1	42,3	44
164CXUNFBK	4	16	7 / 1.70	5,1	1,5	22,1	23,2	81,6	93
254CXUNFBK	4	25	19 / 1.35	6,5	1,7	26,2	27,7	125,0	166
354CXUNFBK	4	35	19 / 1.53	7,5	1,7	28,7	30,3	162,0	182
504CXUNFBK	4	50	19 / 1.78	8,8	1,8	32,4	33,9	214,6	203

Conductor nominal C.S.A mm ²	Current rating (a)			Electrical characteristics		
	Unenclosed spaced A	Buried direct A	Underground in duct A	Maximum d.c. resistance @20° Ω/km	Maximum a.c. resistance @90° Ω/km	Reactance per core Ω/km
Flat						
16	104	130	89	1,15	1,47	0.085
16	88	110	83	1,15	1,47	0.089
25	119	145	110	0,727	0,927	0.086
35	147	170	135	0,524	0,668	0.084
50	180	205	160	0,387	0,494	0.082

(a) Based on 90°C conductor temperature, 40° C ambient temperature, and where applicable, burial depth of 0.6 m, soil temperature of 25°C and soil resistivity of 1.2°C.m/W. Refer to AS/NZS 3008.1 for other installation conditions.

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group; any modification or alteration afterwards of product may give different result. The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.

