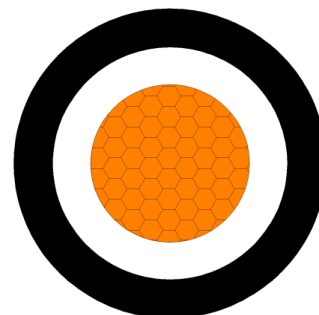




1C XLPE Insulated SDI Cables 0.6/1kV, Cu



Note: The above drawing is for representation purpose only.

Description

Conductor:

Insulation:

Sheath:

Class 2 Plain Annealed Copper

XLPE X-90

PVC 5V-90

Core Identification

White

Sheath Colour

Black

Technical Data

Voltage Rating:

Operating Temperature:

Short Circuit Temperature:

0.6/1kV

-40°C to +90°C

250°C for 5 sec

Standards Compliance

AS/NZS 5000.1

AS/NZS 3808

AS/NZS 1125

AS/NZS 1660.5.6 (Equivalent to IEC 60332-1)

AS/NZS 1660.5.1 (Equivalent to IEC60332-3-24)

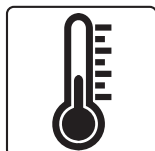
Characteristics



FLAME RETARDANT



UV STABILISED



-40°C ~ +90°C



GREEN STAR

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1C XLPE Insulated SDI Cables 0.6/1kV, Cu

Physical & Electrical Characteristics

WWC Product Code	Conductor Size (mm ²)	Conductor Diameter (mm)	Insulation Thickness (mm)	Approx. Overall Diameter (mm)	Min. Bending Radius (mm)		Approx. Weight (kg/km)
					During Installation	After Installation	
7816XV	16	4.8	0.7	9.0	114	76	204
7825XV	25	6.0	0.9	10.6	133	89	301
7835XV	35	7.0	0.9	11.6	145	97	397
7850XV	50	8.3	1.0	13.0	162	108	545
7870XV	70	9.8	1.1	14.8	185	123	742
7895XV	95	11.6	1.1	17.2	217	145	984
7812XV	120	13.0	1.2	18.5	233	155	1223
7815XV	150	14.3	1.4	20.6	259	173	1526
7818XV	185	16.0	1.6	22.8	287	191	1876
7824XV	240	18.4	1.7	26.1	335	223	2405
7830XV	300	20.6	1.8	27.8	350	234	2968
7840XV	400	23.4	2.0	31.8	401	267	3933
*SM7805XV-BLK	500	26.5	2.2	36.7	467	311	4892
*SM7863XV-BLK	630	30.0	2.4	41.3	522	348	6127

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*These cables are non-stocked items subject to lead times.

Conductor Size (mm ²)	†Current-carrying capacity (A)				Maximum D.C. Resistance of conductor at 20°C (Ω/km)	Reactance at 50Hz (Trefoil) (Ω/km)
	In Air Touching Flat	In Air Enclosed	In Ground	In Ground Enclosed		
16	86	72	117	86	1.15	0.106
25	117	97	151	113	0.727	0.102
35	144	120	180	137	0.524	0.0982
50	176	143	214	163	0.387	0.0924
70	224	183	262	203	0.268	0.0893
95	278	220	313	244	0.193	0.0868
120	325	261	356	284	0.153	0.0844
150	375	295	400	320	0.124	0.0844
185	435	335	452	363	0.0991	0.0835
240	521	399	523	426	0.0754	0.0818
300	602	469	589	491	0.0601	0.0809
400	702	534	668	557	0.0470	0.0802
500	812	633	752	648	0.0366	0.0796
630	938	714	843	727	0.0283	0.0787

†Based on trefoil formation, ambient air temperature of 40°C, soil temperature of 25°C, burial depth of 0.5m and soil thermal resistivity of 1.2K.m/W.

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