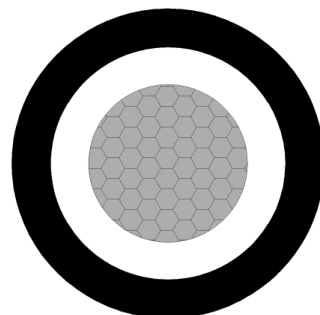




1C XLPE Insulated SDI Cables 0.6/1kV, AL



Note: The above drawing is for representation purpose only.

Description

Conductor:

Class 2 Aluminium

Insulation:

XLPE X-90

Sheath:

PVC 5V-90

Core Identification

White

Sheath Colour

Black

Technical Data

Voltage Rating:

0.6/1kV

Operating Temperature:

-40°C to +90°C

Short Circuit Temperature:

250°C for 5 sec

Standards Compliance

AS/NZS 5000.1

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

AS/NZS 3808

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

AS/NZS 1125

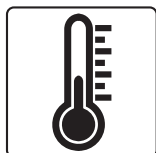
Characteristics



FLAME RETARDANT



UV STABILISED



-40°C ~ +90°C



GREEN STAR

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

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	
AL35	35	7.0	0.9	11.6	153	102	180
AL50	50	8.4	1.0	13.1	173	115	241
AL70	70	10.0	1.1	15.1	199	133	317
AL95	95	11.6	1.1	16.8	222	148	406
AL120	120	13.0	1.2	18.5	244	163	495
AL150	150	14.6	1.4	20.6	272	181	615
AL185	185	16.2	1.6	22.8	301	201	753
AL240	240	18.4	1.7	25.3	334	223	948
AL300	300	20.6	1.8	27.9	368	246	1146
AL400	400	23.4	2.0	31.3	413	275	1501
SMAL500-BLK	500	26.5	2.2	35.1	463	309	1863
SMAL630-BLK	630	30.0	2.4	39.2	517	345	2296

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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		
35	111	93	140	106	0.868	0.0982
50	136	111	166	126	0.641	0.0924
70	174	142	203	158	0.443	0.0893
95	216	171	243	190	0.320	0.0868
120	253	203	277	221	0.253	0.0844
150	291	229	310	249	0.206	0.0844
185	339	261	352	283	0.164	0.0835
240	407	312	409	333	0.125	0.0818
300	472	368	463	385	0.100	0.0809
400	557	424	530	442	0.0778	0.0802
500	652	509	604	520	0.0605	0.0796
630	765	583	688	593	0.0469	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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