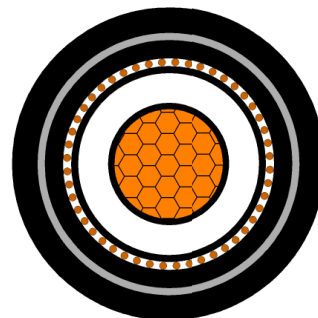




1C XLPE Insulated Medium Voltage Cables 3.8/6.6kV, Cu, Anti-termite



Note: The above drawing is for representation purpose only.

Description

Conductor:	Class 2 Plain Annealed Copper
Conductor Screen:	Semi-conductive Compound
Insulation:	XLPE
Insulation Screen:	Semi-conductive Compound
Metallic Screen:	Plain Annealed Copper Wire
Bedding:	PVC 5V-90
Anti-termite Jacket:	Nylon
Sheath:	PVC 5V-90

Core Identification

Natural

Sheath Colour

Black

Technical Data

Voltage Rating:	3.8/6.6kV
Operating Temperature:	-25°C to +90°C
Short Circuit Temperature:	250°C for 5 sec

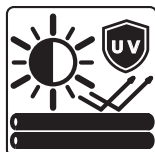
Standards Compliance

AS/NZS 1429.1	AS/NZS 3808
AS/NZS 1125	AS/NZS 1660.5.6 (Equivalent to IEC 60332-1)

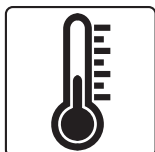
Characteristics



FLAME RETARDANT



UV STABILISED



-25°C ~ +90°C



TERMITE RESISTANT



GREEN STAR

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1C XLPE Insulated Medium Voltage Cables 3.8/6.6kV, Cu, Anti-termite

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/m)
					During Installation	After Installation	
*SMMV6C3X1C25NY	25	5.95	2.5	23.3	768	512	0.8
*SMMV6C5X1C35NY	35	7.04	2.5	24.3	801	534	1.1
*SMMV6C7X1C50NY	50	8.30	2.5	25.6	846	564	1.5
*SMMV6C10X1C70NY	70	9.95	2.5	28.2	930	620	1.9
*SMMV6C10X1C95NY	95	11.60	2.5	29.8	984	656	2.2
*SMMV6C10X1C120NY	120	13.03	2.5	30.5	1008	672	2.5
*SMMV6C10X1C150NY	150	14.57	2.5	32.7	1080	720	2.9
*SMMV6C10X1C185NY	185	16.18	2.5	34.5	1140	760	3.2
*SMMV6C10X1C240NY	240	18.43	2.6	36.9	1218	812	3.9
*SMMV6C10X1C300NY	300	20.61	2.8	39.7	1311	874	4.7
*SMMV6C10X1C400NY	400	23.79	3.0	44.1	1455	970	5.7
*SMMV6C10X1C500NY	500	27.20	3.2	48.1	1587	1058	6.8
*SMMV6C10X1C630NY	630	30.60	3.2	51.7	1674	1116	8.0

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

Cond. Size (mm ²)	Max. D.C. Resistance of cond. at 20°C (Ω/km)	A.C. Resistance of cond. at 90°C, 50Hz (Ω/km)	Operating Induct. (mH/km)	Mutual Capa. (μF/km)	Fault Current Rating (kA/s)		+Current-carrying capacity (A)			
					Cond.	Screen	In Air Touching	In Air Enclosed	In Ground	In ground Enclosed
25	0.727	0.927	0.483	0.269	3.6	3.6	138	102	148	118
35	0.524	0.668	0.466	0.297	5.0	5.0	169	128	179	144
50	0.387	0.494	0.443	0.334	7.2	7.2	205	149	210	169
70	0.268	0.342	0.425	0.376	10.0	10.1	256	190	256	210
95	0.193	0.247	0.407	0.421	13.6	10.1	308	226	302	246
120	0.153	0.196	0.391	0.463	17.2	10.1	354	251	343	282
150	0.124	0.159	0.378	0.508	21.5	10.1	400	292	384	318
185	0.0991	0.1276	0.370	0.550	26.5	10.1	456	328	431	359
240	0.0754	0.0979	0.359	0.593	34.3	10.1	538	384	492	410
300	0.0601	0.0789	0.353	0.606	42.9	10.1	610	446	554	472
400	0.0470	0.0629	0.345	0.635	57.2	10.1	702	507	620	533
500	0.0366	0.0505	0.340	0.690	71.5	10.1	798	566	683	595
630	0.0283	0.0404	0.331	0.762	90.1	10.1	902	632	767	652

*Based on ambient air temperature of 40°C, soil temperature of 25°C, burial depth of 0.8m and soil thermal resistivity of 1.2K.m/W.

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