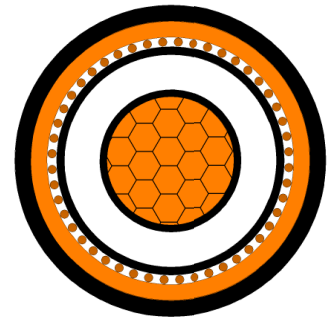




1C XLPE Insulated Medium Voltage Cables 3.8/6.6kV, Cu, HDPE



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
Sheath:	Inner Layer PVC 5V-90 Outer Layer HDPE

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)

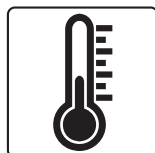
Characteristics



FLAME RETARDANT



UV STABILISED



-25°C ~ +90°C



GREEN STAR

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1C XLPE Insulated Medium Voltage Cables 3.8/6.6kV, Cu, HDPE

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	
*SMMV6C3X1C25HP	25	5.95	2.5	21.7	598	359	0.8
*SMMV6C5X1C35HP	35	7.04	2.5	22.7	625	375	1.0
*SMMV6C7X1C50HP	50	8.30	2.5	24.0	660	396	1.1
*SMMV6C10X1C70HP	70	9.95	2.5	26.4	725	435	1.7
*SMMV6C10X1C95HP	95	11.60	2.5	28.0	770	462	1.9
*SMMV6C10X1C120HP	120	13.03	2.5	28.7	790	474	2.2
*SMMV6C10X1C150HP	150	14.57	2.5	30.3	833	500	2.5
*SMMV6C10X1C185HP	185	16.18	2.5	31.9	878	527	2.8
*SMMV6C10X1C240HP	240	18.43	2.6	34.3	943	566	3.4
*SMMV6C10X1C300HP	300	20.61	2.8	36.9	1015	609	4.0
*SMMV6C10X1C400HP	400	23.79	3.0	40.5	1115	669	5.0
*SMMV6C10X1C500HP	500	27.20	3.2	44.3	1218	731	6.1
*SMMV6C10X1C630HP	630	30.60	3.2	48.1	1323	794	7.3

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*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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