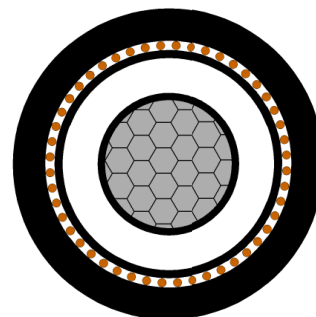
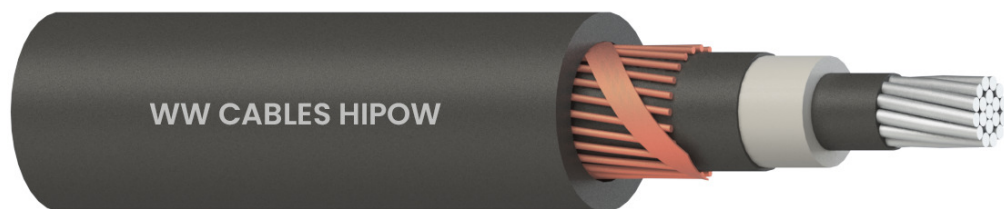




1C XLPE Insulated Medium Voltage Cables 3.8/6.6kV, AL



Note: The above drawing is for representation purpose only.

Description

Conductor:	Class 2 Aluminium
Conductor Screen:	Semi-conductive Compound
Insulation:	XLPE
Insulation Screen:	Semi-conductive Compound
Metallic Screen:	Plain Annealed Copper Wire
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



GREEN STAR

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1C XLPE Insulated Medium Voltage Cables 3.8/6.6kV, 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/m)
					During Installation	After Installation	
*SMMV6A2X1C25	25	5.95	2.5	20.5	407	271	0.4
*SMMV6A3X1C35	35	7.04	2.5	21.5	427	284	0.7
*SMMV6A4X1C50	50	8.30	2.5	22.8	452	301	0.8
*SMMV6A6X1C70	70	9.95	2.5	24.5	486	324	1.1
*SMMV6A9X1C95	95	11.60	2.5	26.8	531	354	1.3
*SMMV6A10X1C120	120	13.03	2.5	28.4	562	374	1.5
*SMMV6A10X1C150	150	14.57	2.5	29.3	580	386	1.8
*SMMV6A10X1C185	185	16.18	2.5	30.9	612	408	1.8
*SMMV6A10X1C240	240	18.43	2.6	33.5	664	443	2.0
*SMMV6A10X1C300	300	20.61	2.8	36.3	718	479	2.3
*SMMV6A10X1C400	400	23.79	3.0	40.1	794	529	2.7
*SMMV6A10X1C500	500	27.20	3.2	44.3	877	584	3.1
*SMMV6A10X1C630	630	30.60	3.2	47.9	949	632	3.5

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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	1.20	1.54	0.483	0.269	2.4	2.4	108	82	107	95
35	0.868	1.113	0.466	0.297	3.3	3.3	128	97	138	108
50	0.641	0.822	0.443	0.334	4.7	4.7	159	118	164	133
70	0.443	0.568	0.425	0.376	6.6	6.8	195	144	200	159
95	0.320	0.411	0.407	0.421	9.0	9.0	241	174	236	195
120	0.253	0.325	0.391	0.463	11.3	10.1	277	200	267	220
150	0.206	0.265	0.378	0.508	14.2	10.1	313	231	297	246
185	0.164	0.211	0.370	0.550	17.5	10.1	354	261	338	282
240	0.125	0.161	0.359	0.593	22.7	10.1	420	302	390	323
300	0.100	0.130	0.353	0.606	28.3	10.1	482	343	436	364
400	0.0778	0.1016	0.345	0.635	37.8	10.1	559	405	497	425
500	0.0605	0.0800	0.340	0.690	47.3	10.1	652	470	564	489
630	0.0469	0.0628	0.331	0.762	59.6	10.1	748	529	634	548

*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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