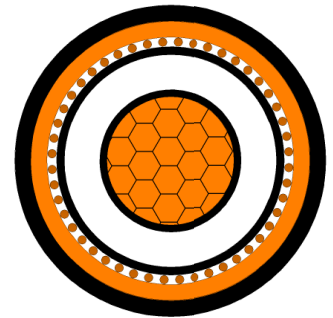




1C XLPE Insulated Medium Voltage Cables 12.7/22kV, Cu, HDPE



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:	12.7/22kV
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)

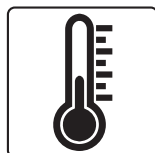
Characteristics



FLAME RETARDANT



UV STABILISED



-25°C ~ +90°C



GREEN STAR

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1C XLPE Insulated Medium Voltage Cables 12.7/22kV, 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	
*SMMV22C5X1C35HP	35	7.04	5.5	28.7	790	474	1.2
*SMMV22C7X1C50HP	50	8.30	5.5	30.0	825	495	1.3
*SMMV22C10X1C70HP	70	9.95	5.5	31.7	873	524	1.9
*SMMV22C10X1C95HP	95	11.60	5.5	33.3	915	549	2.2
*SMMV22C10X1C120HP	120	13.03	5.5	34.7	955	573	2.5
*SMMV22C10X1C150HP	150	14.57	5.5	36.3	998	599	2.8
*SMMV22C10X1C185HP	185	16.18	5.5	37.9	1043	626	3.3
*SMMV22C10X1C240HP	240	18.43	5.5	40.1	1103	662	3.9
*SMMV22C10X1C300HP	300	20.61	5.5	42.3	1163	698	4.7
*SMMV22C10X1C400HP	400	23.79	5.5	45.5	1253	752	5.7
*SMMV22C10X1C500HP	500	27.20	5.5	49.3	1355	813	7.0
*SMMV22C10X1C630HP	630	30.60	5.5	52.7	1423	854	8.3

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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
35	0.524	0.668	0.514	0.166	5.0	5.0	179	133	179	149
50	0.387	0.494	0.488	0.183	7.2	7.2	210	159	210	174
70	0.268	0.342	0.469	0.203	10.0	10.1	261	200	256	215
95	0.193	0.247	0.449	0.224	13.6	10.1	318	236	302	256
120	0.153	0.196	0.432	0.243	17.2	10.1	364	267	343	287
150	0.124	0.159	0.417	0.264	21.5	10.1	410	302	384	323
185	0.0991	0.1276	0.407	0.283	26.5	10.1	466	354	431	374
240	0.0754	0.0979	0.393	0.313	34.3	10.1	548	405	497	425
300	0.0601	0.0789	0.381	0.339	42.9	10.1	625	456	554	477
400	0.0470	0.0629	0.370	0.375	57.2	10.1	718	518	625	538
500	0.0366	0.0505	0.360	0.428	71.5	10.1	810	582	694	598
630	0.0283	0.0404	0.349	0.470	90.1	10.1	912	678	776	678

+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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