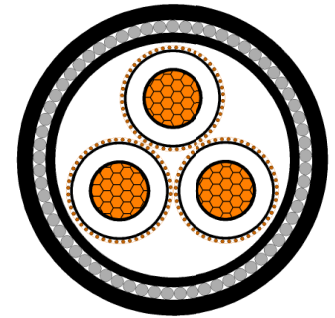




3C XLPE Insulated Medium Voltage Cables 12.7/22kV, Cu, Armoured



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
Armour:	Galvanised Steel Wire Armour
Sheath:	PVC 5V-90

Core Identification

Red, White, Blue

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)

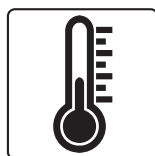
Characteristics



FLAME RETARDANT



UV STABILISED



-25°C ~ +90°C



GREEN STAR

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3C XLPE Insulated Medium Voltage Cables 12.7/22kV, Cu, Armoured

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	
*SMMV22C5X3C35A	35	7.04	5.5	63.8	1240	827	6.4
*SMMV22C7X3C50A	50	8.30	5.5	66.7	1296	864	7.2
*SMMV22C10X3C70A	70	9.95	5.5	70.4	1368	912	8.6
*SMMV22C10X3C95A	95	11.60	5.5	75.7	1472	982	9.8
*SMMV22C10X3C120A	120	13.03	5.5	79.4	1544	1030	12.0
*SMMV22C10X3C150A	150	14.57	5.5	82.9	1611	1074	13.2
*SMMV22C10X3C185A	185	16.18	5.5	86.8	1687	1124	14.9
*SMMV22C10X3C240A	240	18.43	5.5	91.9	1787	1192	17.3
*SMMV22C10X3C300A	300	20.61	5.5	97.0	1886	1258	20.1
*SMMV22C10X3C400A	400	23.79	5.5	104.8	2038	1358	23.7
*SMMV22C10X3C500A	500	27.20	5.5	112.6	2189	1459	27.2

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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	0.474	0.166	5.0	5.0	169	128	179	144
50	0.387	0.494	0.451	0.183	7.2	7.2	205	154	210	174
70	0.268	0.342	0.429	0.203	10.0	10.1	256	190	256	210
95	0.193	0.247	0.411	0.224	13.6	10.1	308	231	308	251
120	0.153	0.196	0.397	0.243	17.2	10.1	354	261	349	287
150	0.124	0.159	0.384	0.264	21.5	10.1	400	308	390	328
185	0.0991	0.1276	0.374	0.284	26.5	10.1	461	349	441	369
240	0.0754	0.0979	0.361	0.313	34.3	10.1	538	405	513	431
300	0.0601	0.0789	0.351	0.339	42.9	10.1	615	461	574	487
400	0.0470	0.0629	0.340	0.375	57.2	10.1	712	528	651	554
500	0.0373	0.0515	0.332	0.428	71.5	10.1	794	610	720	632

+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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