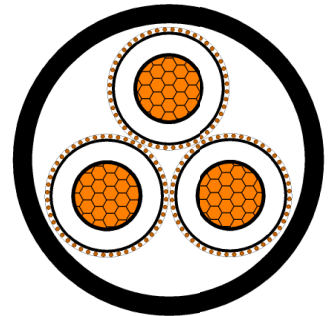




## 3C XLPE Insulated Medium Voltage Cables 12.7/22kV, Cu



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:	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)

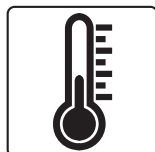
### Characteristics



FLAME RETARDANT



UV STABILISED



-25°C ~ +90°C



GREEN STAR

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

### Physical & Electrical Characteristics

WWC Product Code	Conductor Size (mm <sup>2</sup> )	Conductor Diameter (mm)	Insulation Thickness (mm)	Approx. Overall Diameter (mm)	Min. Bending Radius (mm)		Approx. Weight (kg/m)
					During Installation	After Installation	
*SMMV22C5X3C35	35	7.04	5.5	55.0	1069	713	3.3
*SMMV22C7X3C50	50	8.30	5.5	57.9	1125	750	4.0
*SMMV22C10X3C70	70	9.95	5.5	61.8	1201	800	5.1
*SMMV22C10X3C95	95	11.60	5.5	65.6	1274	850	6.2
*SMMV22C10X3C120	120	13.03	5.5	68.9	1339	893	7.2
*SMMV22C10X3C150	150	14.57	5.5	72.4	1408	938	8.3
*SMMV22C10X3C185	185	16.18	5.5	76.1	1480	986	9.6
*SMMV22C10X3C240	240	18.43	5.5	81.4	1582	1055	11.8
*SMMV22C10X3C300	300	20.61	5.5	86.5	1681	1121	14.1
*SMMV22C10X3C400	400	23.79	5.5	93.7	1822	1214	17.4
*SMMV22C10X3C500	500	27.20	5.5	101.7	1976	1318	22.6

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

Cond. Size (mm <sup>2</sup> )	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

<sup>+</sup>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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