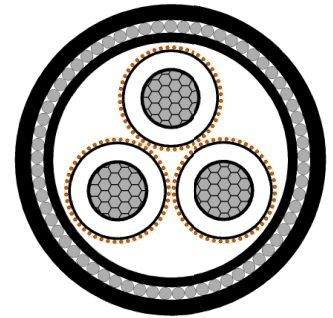




## 3C XLPE Insulated Medium Voltage Cables 12.7/22kV, AL, Armoured



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
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

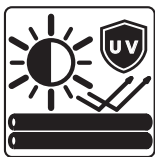
### Standards Compliance

AS/NZS 1429.1	AS/NZS 3808
AS/NZS 1125	AS/NZS 1660.5.6 (Equivalent to IEC 60332-1)

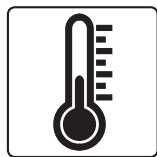
### Characteristics



FLAME RETARDANT



UV STABILISED



-25°C ~ +90°C



GREEN STAR

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

### 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	
*SMMV22A3X3C35A	35	7.04	5.5	63.8	1240	827	5.9
*SMMV22A4X3C50A	50	8.30	5.5	66.7	1296	864	6.4
*SMMV22A6X3C70A	70	9.95	5.5	70.4	1368	912	7.3
*SMMV22A9X3C95A	95	11.60	5.5	75.7	1472	982	8.3
*SMMV22A10X3C120A	120	13.03	5.5	79.4	1544	1030	9.9
*SMMV22A10X3C150A	150	14.57	5.5	82.9	1611	1074	10.7
*SMMV22A10X3C185A	185	16.18	5.5	86.8	1687	1124	11.4
*SMMV22A10X3C240A	240	18.43	5.5	91.9	1787	1192	12.7
*SMMV22A10X3C300A	300	20.61	5.5	97.0	1886	1258	14.3
*SMMV22A10X3C400A	400	23.79	5.5	104.8	2038	1358	16.2
*SMMV22A10X3C500A	500	27.20	5.5	112.6	2189	1459	18.3

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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	0.868	1.113	0.474	0.166	3.3	3.3	133	99	138	113
50	0.641	0.822	0.451	0.183	4.7	4.7	159	123	164	133
70	0.443	0.568	0.429	0.203	6.6	6.8	195	149	200	164
95	0.320	0.411	0.411	0.224	9.0	9.0	241	179	236	195
120	0.253	0.325	0.397	0.243	11.3	10.1	277	205	272	220
150	0.206	0.265	0.384	0.264	14.2	10.1	313	236	302	256
185	0.164	0.211	0.374	0.284	17.5	10.1	354	272	343	287
240	0.125	0.161	0.361	0.313	22.7	10.1	420	313	400	333
300	0.100	0.130	0.351	0.339	28.3	10.1	477	359	451	379
400	0.0778	0.1016	0.340	0.375	37.8	10.1	559	415	513	436
500	0.0617	0.0816	0.332	0.428	47.3	10.1	639	488	580	499

+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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