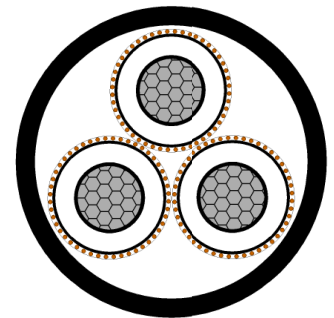




3C XLPE Insulated Medium Voltage Cables 12.7/22kV, AL



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

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)

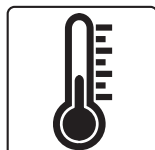
Characteristics



FLAME RETARDANT



UV STABILISED



-25°C ~ +90°C



GREEN STAR

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

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	
*SMMV22A3X3C35	35	7.04	5.5	55.0	1069	713	2.5
*SMMV22A4X3C50	50	8.30	5.5	57.9	1125	750	2.8
*SMMV22A6X3C70	70	9.95	5.5	61.8	1201	800	3.4
*SMMV22A9X3C95	95	11.60	5.5	65.6	1274	850	4.1
*SMMV22A10X3C120	120	13.03	5.5	68.9	1339	893	4.6
*SMMV22A10X3C150	150	14.57	5.5	72.4	1408	938	5.1
*SMMV22A10X3C185	185	16.18	5.5	76.1	1480	986	5.6
*SMMV22A10X3C240	240	18.43	5.5	81.4	1582	1055	6.4
*SMMV22A10X3C300	300	20.61	5.5	86.5	1681	1121	7.5
*SMMV22A10X3C400	400	23.79	5.5	93.7	1822	1214	8.8
*SMMV22A10X3C500	500	27.20	5.5	101.7	1976	1318	10.2

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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	0.868	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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