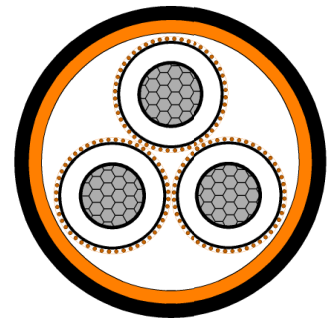
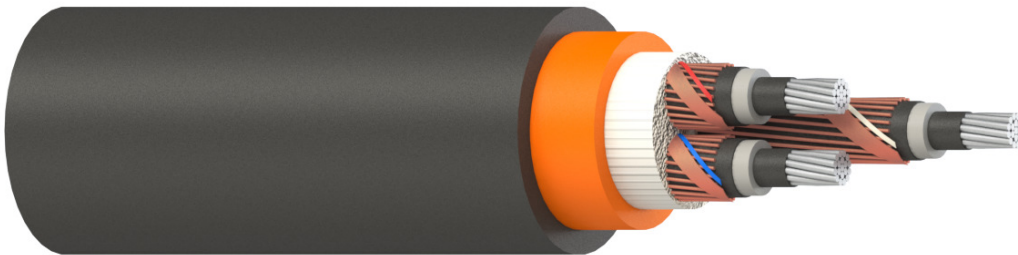




3C XLPE Insulated Medium Voltage Cables 12.7/22kV, AL, HDPE



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:	Inner Layer PVC 5V-90 Outer Layer HDPE

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)

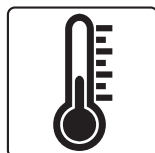
Characteristics



FLAME RETARDANT



UV STABILISED



-25°C ~ +90°C



GREEN STAR

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3C XLPE Insulated Medium Voltage Cables 12.7/22kV, AL, 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	
*SMMV22A3X3C35HP	35	7.04	5.5	55.2	1490	894	2.6
*SMMV22A4X3C50HP	50	8.30	5.5	57.9	1563	938	3.0
*SMMV22A6X3C70HP	70	9.95	5.5	61.8	1668	1001	3.5
*SMMV22A9X3C95HP	95	11.60	5.5	65.4	1765	1059	4.2
*SMMV22A10X3C120HP	120	13.03	5.5	68.9	1860	1116	4.7
*SMMV22A10X3C150HP	150	14.57	5.5	72.6	1960	1176	5.2
*SMMV22A10X3C185HP	185	16.18	5.5	76.1	2055	1233	5.7
*SMMV22A10X3C240HP	240	18.43	5.5	81.4	2198	1319	6.6
*SMMV22A10X3C300HP	300	20.61	5.5	86.5	2335	1401	7.5
*SMMV22A10X3C400HP	400	23.79	5.5	93.7	2530	1518	8.9
*SMMV22A10X3C500HP	500	27.20	5.5	101.5	2740	1644	10.5

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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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