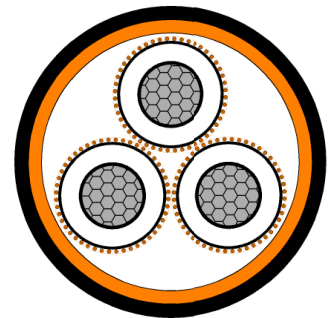




## 3C XLPE Insulated Medium Voltage Cables 3.8/6.6kV, AL, HDPE



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:	3.8/6.6kV
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)

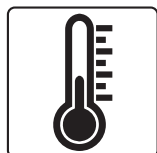
### Characteristics



FLAME RETARDANT



UV STABILISED



-25°C ~ +90°C



GREEN STAR

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## 3C XLPE Insulated Medium Voltage Cables 3.8/6.6kV, AL, HDPE

### 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	
*SMMV6A2X3C25HP	25	5.95	2.5	39.0	1073	644	1.4
*SMMV6A3X3C35HP	35	7.04	2.5	41.4	1138	683	1.6
*SMMV6A4X3C50HP	50	8.30	2.5	44.1	1213	728	2.0
*SMMV6A6X3C70HP	70	9.95	2.5	48.1	1323	794	2.4
*SMMV6A9X3C95HP	95	11.60	2.5	51.6	1393	836	3.0
*SMMV6A10X3C120HP	120	13.03	2.5	55.1	1488	893	3.4
*SMMV6A10X3C150HP	150	14.57	2.5	58.5	1580	948	3.9
*SMMV6A10X3C185HP	185	16.18	2.5	62.3	1683	1010	4.4
*SMMV6A10X3C240HP	240	18.43	2.6	68.0	1835	1101	5.2
*SMMV6A10X3C300HP	300	20.61	2.8	74.0	1998	1199	6.1
*SMMV6A10X3C400HP	400	23.79	3.0	82.1	2218	1331	7.4
*SMMV6A10X3C500HP	500	27.20	3.2	91.2	2463	1478	9.0

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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
25	1.20	1.54	0.432	0.269	2.4	2.4	108	79	112	89
35	0.868	1.113	0.414	0.297	3.3	3.3	128	94	138	108
50	0.641	0.822	0.394	0.334	4.7	4.7	154	113	164	128
70	0.443	0.568	0.377	0.376	6.6	6.8	190	138	200	154
95	0.320	0.411	0.362	0.421	9.0	9.0	231	169	236	190
120	0.253	0.325	0.351	0.463	11.3	10.1	267	195	272	215
150	0.206	0.265	0.341	0.508	14.2	10.1	302	220	302	246
185	0.164	0.211	0.333	0.550	17.5	10.1	349	251	343	277
240	0.125	0.161	0.324	0.593	22.7	10.1	410	297	395	323
300	0.100	0.130	0.319	0.606	28.3	10.1	472	349	446	374
400	0.0778	0.1016	0.313	0.635	37.8	10.1	548	405	513	431
500	0.0617	0.0816	0.310	0.690	47.3	10.1	629	462	570	479

+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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