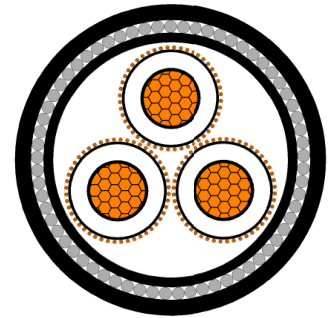




## 3C XLPE Insulated Medium Voltage Cables 3.8/6.6kV, Cu, Armoured



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
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:	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)

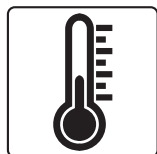
### Characteristics



FLAME RETARDANT



UV STABILISED



-25°C ~ +90°C



GREEN STAR

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## 3C XLPE Insulated Medium Voltage Cables 3.8/6.6kV, Cu, 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	
*SMMV6C3X3C25A	25	5.95	2.5	46.6	923	616	4.1
*SMMV6C5X3C35A	35	7.04	2.5	49.6	983	655	4.9
*SMMV6C7X3C50A	50	8.30	2.5	52.3	1017	678	5.7
*SMMV6C10X3C70A	70	9.95	2.5	56.3	1094	730	6.9
*SMMV6C10X3C95A	95	11.60	2.5	60.4	1174	782	8.1
*SMMV6C10X3C120A	120	13.03	2.5	63.7	1238	826	9.4
*SMMV6C10X3C150A	150	14.57	2.5	67.3	1309	872	10.6
*SMMV6C10X3C185A	185	16.18	2.5	71.1	1382	922	12.1
*SMMV6C10X3C240A	240	18.43	2.6	78.5	1526	1018	15.6
*SMMV6C10X3C300A	300	20.61	2.8	84.5	1643	1096	18.4
*SMMV6C10X3C400A	400	23.79	3.0	92.8	1804	1202	22.3
*SMMV6C10X3C500A	500	27.20	3.2	102.1	1985	1324	26.4

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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	0.727	0.927	0.432	0.269	3.6	3.6	138	102	148	117
35	0.524	0.668	0.414	0.297	5.0	5.0	164	123	179	138
50	0.387	0.494	0.394	0.334	7.2	7.2	195	144	210	164
70	0.268	0.342	0.377	0.376	10.0	10.1	246	179	256	200
95	0.193	0.247	0.362	0.421	13.6	10.1	297	215	308	241
120	0.153	0.196	0.351	0.463	17.2	10.1	343	246	349	277
150	0.124	0.159	0.341	0.508	21.5	10.1	390	287	390	313
185	0.0991	0.1276	0.333	0.550	26.5	10.1	446	328	441	359
240	0.0754	0.0979	0.324	0.593	34.3	10.1	528	384	507	415
300	0.0601	0.0789	0.319	0.606	42.9	10.1	605	451	574	482
400	0.0470	0.0629	0.313	0.635	57.2	10.1	702	518	651	543
500	0.0373	0.0515	0.310	0.690	71.5	10.1	782	572	715	602

+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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