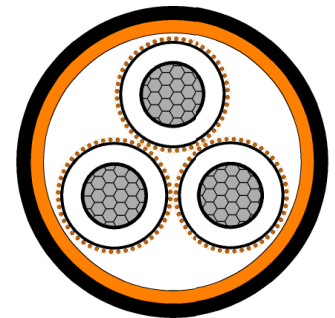




## 3C XLPE Insulated Medium Voltage Cables 19/33kV, AL, HDPE



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:	19/33kV
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)

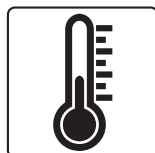
### Characteristics



FLAME RETARDANT



UV STABILISED



-25°C ~ +90°C



GREEN STAR

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## 3C XLPE Insulated Medium Voltage Cables 19/33kV, 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	
*SMMV33A4X3C50HP	50	8.30	8.0	69.5	1878	1127	4.1
*SMMV33A6X3C70HP	70	9.95	8.0	73.4	1983	1190	4.6
*SMMV33A9X3C95HP	95	11.60	8.0	77.0	2080	1248	5.3
*SMMV33A10X3C120HP	120	13.03	8.0	80.5	2173	1304	5.9
*SMMV33A10X3C150HP	150	14.57	8.0	83.8	2263	1358	6.5
*SMMV33A10X3C185HP	185	16.18	8.0	87.7	2368	1421	7.1
*SMMV33A10X3C240HP	240	18.43	8.0	93.0	2510	1506	8.0
*SMMV33A10X3C300HP	300	20.61	8.0	98.1	2648	1589	9.0
*SMMV33A10X3C400HP	400	23.79	8.0	105.3	2843	1706	10.5
*SMMV33A10X3C500HP	500	27.20	8.0	113.1	3053	1832	12.2

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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
50	0.641	0.822	0.488	0.143	4.7	4.7	164	123	164	133
70	0.443	0.568	0.465	0.157	6.6	6.8	200	159	200	169
95	0.320	0.411	0.444	0.171	9.0	9.0	241	190	236	200
120	0.253	0.325	0.429	0.185	11.3	10.1	277	215	272	231
150	0.206	0.265	0.415	0.200	14.2	10.1	318	241	302	256
185	0.164	0.211	0.403	0.213	17.5	10.1	359	277	343	292
240	0.125	0.161	0.388	0.234	22.7	10.1	425	318	400	338
300	0.100	0.130	0.377	0.252	28.3	10.1	482	364	451	379
400	0.0778	0.1016	0.364	0.277	37.8	10.1	564	436	513	451
500	0.0617	0.0816	0.354	0.314	47.3	10.1	650	492	585	510

\*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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