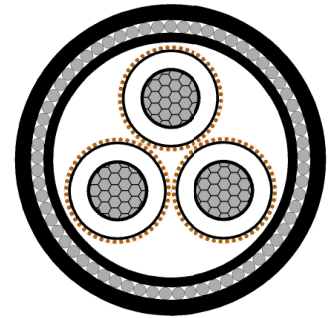




3C XLPE Insulated Medium Voltage Cables 19/33kV, AL, Armoured



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
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:	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)

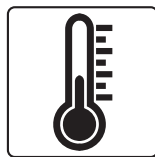
Characteristics



FLAME RETARDANT



UV STABILISED



-25°C ~ +90°C



GREEN STAR

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

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	
*SMMV33A4X3C50A	50	8.30	8.0	80.2	1559	1039	9.7
*SMMV33A6X3C70A	70	9.95	8.0	83.9	1631	1087	10.3
*SMMV33A9X3C95A	95	11.60	8.0	87.7	1705	1136	11.3
*SMMV33A10X3C120A	120	13.03	8.0	91.0	1769	1180	12.1
*SMMV33A10X3C150A	150	14.57	8.0	94.5	1838	1225	13.0
*SMMV33A10X3C185A	185	16.18	8.0	98.8	1921	1280	14.0
*SMMV33A10X3C240A	240	18.43	8.0	103.9	2020	1346	15.4
*SMMV33A10X3C300A	300	20.61	8.0	109.0	2119	1412	16.8
*SMMV33A10X3C400A	400	23.79	8.0	116.2	2259	1506	19.5
*SMMV33A10X3C500A	500	27.20	8.0	124.2	2414	1609	22.0

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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
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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