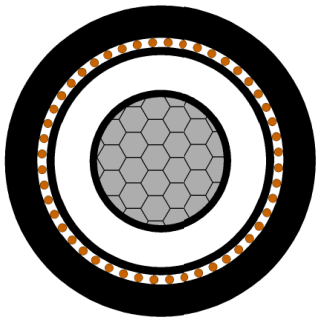
1C XLPE Insulated Medium Voltage Cables 19/33kV, AL



© World Wire Cables (Aust) Pty Ltd. All Rights Reserved.

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:	PVC 5V-90

Core Identification

Natural

Sheath Colour

Black

Technical Data

Voltage Rating:	19/33kV
Operating Temperature:	-25°C to +90°C
Short Circuit Temperature:	250°C for 5 sec

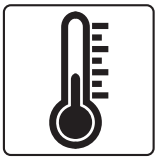
Standards Compliance

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

The information in this specification is to be used as a guide only. World Wire Cables (Aust) Pty Ltd has taken all due care in compiling the information in this specification but accepts no responsibility for any errors or omissions. All information provided in this specification is covered by copyright.

bsi. ISO 9001 Quality Management

1C XLPE Insulated Medium Voltage Cables 19/33kV, AL

Physical & Electrical Characteristics

WWC Product Code	Conductor Size (mm²)	Conductor Diameter (mm)	Insulation Thickness (mm)	Approx. Overall Diameter (mm)	Min. Bending Radius (mm)		Approx. Weight (kg/m)
					During Installation	After Installation	
*SMMV33A4X1C50	50	8.30	8.0	34.4	680	454	1.4
*SMMV33A6X1C70	70	9.95	8.0	36.1	715	476	1.7
*SMMV33A9X1C95	95	11.60	8.0	37.9	751	500	2.0
*SMMV33A10X1C120	120	13.03	8.0	39.3	778	518	2.2
*SMMV33A10X1C150	150	14.57	8.0	41.1	814	542	2.4
*SMMV33A10X1C185	185	16.18	8.0	42.7	846	564	2.5
*SMMV33A10X1C240	240	18.43	8.0	45.1	893	595	2.8
*SMMV33A10X1C300	300	20.61	8.0	47.5	941	628	3.1
*SMMV33A10X1C400	400	23.79	8.0	50.9	990	660	3.5
*SMMV33A10X1C500	500	27.20	8.0	54.5	1060	707	3.9
*SMMV33A10X1C630	630	30.60	8.0	58.1	1129	752	4.3

*These cables are non-stocked items subject to lead times.

Cond. Size (mm²)	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	0.522	0.143	4.7	4.7	169	128	164	138
70	0.443	0.568	0.500	0.157	6.6	6.8	205	164	200	174
95	0.320	0.411	0.479	0.171	9.0	9.0	251	195	236	205
120	0.253	0.325	0.461	0.185	11.3	10.1	287	220	267	236
150	0.206	0.265	0.445	0.199	14.2	10.1	323	246	302	261
185	0.164	0.211	0.433	0.213	17.5	10.1	369	277	338	292
240	0.125	0.161	0.417	0.234	22.7	10.1	436	323	390	338
300	0.100	0.130	0.405	0.252	28.3	10.1	497	364	441	379
400	0.0778	0.1016	0.392	0.277	37.8	10.1	574	436	502	451
500	0.0605	0.0800	0.381	0.314	47.3	10.1	660	486	569	500
630	0.0469	0.0628	0.369	0.343	59.6	10.1	760	560	638	568

+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.

© World Wire Cables (Aust) Pty Ltd. All Rights Reserved.

The information in this specification is to be used as a guide only. World Wire Cables (Aust) Pty Ltd has taken all due care in compiling the information in this specification but accepts no responsibility for any errors or omissions. All information provided in this specification is covered by copyright.

bsi. ISO 9001 Quality Management