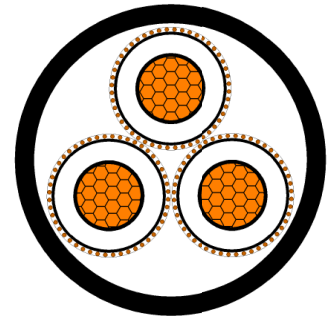




3C XLPE Insulated Medium Voltage Cables 19/33kV, Cu



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
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)

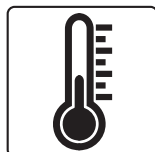
Characteristics



FLAME RETARDANT



UV STABILISED



-25°C ~ +90°C



GREEN STAR

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

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	
*SMMV33C7X3C50	50	8.30	8.0	69.5	1352	901	5.1
*SMMV33C10X3C70	70	9.95	8.0	73.2	1424	949	6.2
*SMMV33C10X3C95	95	11.60	8.0	77.2	1501	1001	7.4
*SMMV33C10X3C120	120	13.03	8.0	80.5	1564	1043	8.4
*SMMV33C10X3C150	150	14.57	8.0	84.0	1633	1088	9.6
*SMMV33C10X3C185	185	16.18	8.0	87.7	1705	1136	11.0
*SMMV33C10X3C240	240	18.43	8.0	93.0	1807	1205	13.2
*SMMV33C10X3C300	300	20.61	8.0	97.9	1903	1268	15.6
*SMMV33C10X3C400	400	23.79	8.0	105.3	2047	1364	19.1
*SMMV33C10X3C500	500	27.20	8.0	113.1	2198	1465	28.7

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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	0.387	0.494	0.488	0.143	7.2	7.2	210	159	210	174
70	0.268	0.342	0.465	0.157	10.0	10.1	261	205	256	220
95	0.193	0.247	0.444	0.171	13.6	10.1	313	241	308	261
120	0.153	0.196	0.429	0.185	17.2	10.1	359	277	349	297
150	0.124	0.159	0.415	0.200	21.5	10.1	405	313	390	333
185	0.0991	0.1276	0.403	0.213	26.5	10.1	466	354	441	374
240	0.0754	0.0979	0.388	0.234	34.3	10.1	548	410	513	436
300	0.0601	0.0789	0.377	0.252	42.9	10.1	625	466	579	492
400	0.0470	0.0629	0.364	0.277	57.2	10.1	718	554	656	574
500	0.0373	0.0515	0.354	0.314	71.5	10.1	803	620	728	640

*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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