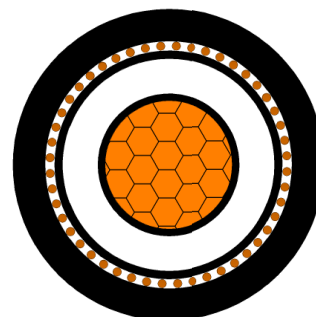




1C XLPE Insulated Medium Voltage Cables 12.7/22kV, Cu



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

Natural

Sheath Colour

Black

Technical Data

Voltage Rating:	12.7/22kV
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)

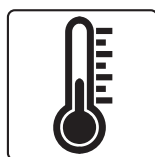
Characteristics



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.





1C XLPE Insulated Medium Voltage Cables 12.7/22kV, 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	
*SMMV22C5X1C35	35	7.04	5.5	27.5	545	364	1.3
*SMMV22C7X1C50	50	8.30	5.5	29.0	574	383	1.5
*SMMV22C10X1C70	70	9.95	5.5	30.7	608	406	2.0
*SMMV22C10X1C95	95	11.60	5.5	32.5	644	430	2.4
*SMMV22C10X1C120	120	13.03	5.5	33.9	671	448	2.7
*SMMV22C10X1C150	150	14.57	5.5	35.7	707	472	3.0
*SMMV22C10X1C185	185	16.18	5.5	37.5	743	496	3.5
*SMMV22C10X1C240	240	18.43	5.5	39.7	787	524	4.1
*SMMV22C10X1C300	300	20.61	5.5	42.1	833	556	4.9
*SMMV22C10X1C400	400	23.79	5.5	45.5	902	601	5.9
*SMMV22C10X1C500	500	27.20	5.5	49.1	972	648	7.1
*SMMV22C10X1C630	630	30.60	5.5	52.9	1028	685	7.9

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

*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
35	0.524	0.668	0.514	0.166	5.0	5.0	179	133	179	149
50	0.387	0.494	0.488	0.183	7.2	7.2	210	159	210	174
70	0.268	0.342	0.469	0.203	10.0	10.1	261	200	256	215
95	0.193	0.247	0.449	0.224	13.6	10.1	318	236	302	256
120	0.153	0.196	0.432	0.243	17.2	10.1	364	267	343	287
150	0.124	0.159	0.417	0.264	21.5	10.1	410	302	384	323
185	0.0991	0.1276	0.407	0.283	26.5	10.1	466	354	431	374
240	0.0754	0.0979	0.393	0.313	34.3	10.1	548	405	497	425
300	0.0601	0.0789	0.381	0.339	42.9	10.1	625	456	554	477
400	0.0470	0.0629	0.370	0.375	57.2	10.1	718	518	625	538
500	0.0366	0.0505	0.360	0.428	71.5	10.1	810	582	694	598
630	0.0283	0.0404	0.349	0.470	90.1	10.1	912	678	776	678

*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.

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.

