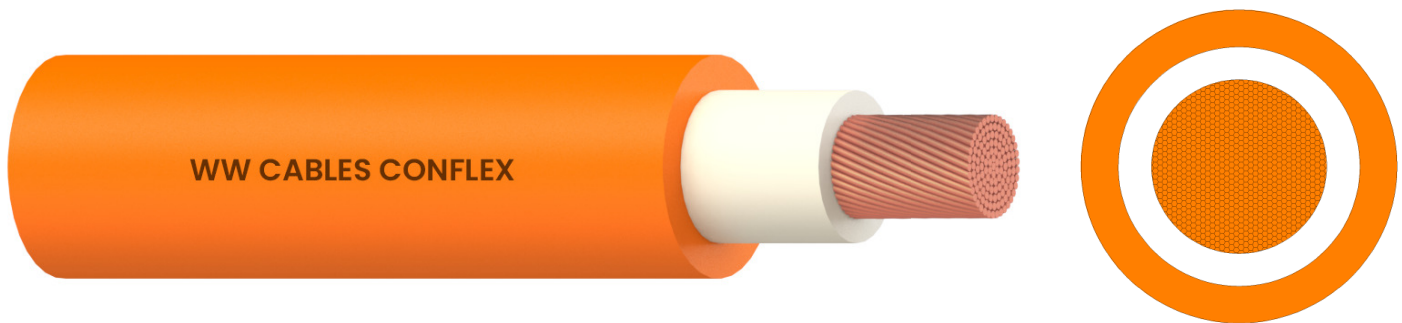




1C XLPE Insulated SDI Cables 0.6/1kV, Flexible Cu



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Note: The above drawing is for representation purpose only.

Description

Conductor:	Class 5 Flexible Plain Annealed Copper
Insulation:	XLPE X-90
Sheath:	TPE

Core Identification

White

Sheath Colour

Orange

Technical Data

Voltage Rating:	0.6/1kV
Operating Temperature:	-40°C to +90°C
Short Circuit Temperature:	250°C for 5 sec

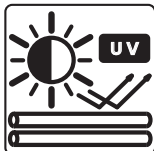
Standards Compliance

AS/NZS 5000.1	AS/NZS 1660.5.6 (Equivalent to IEC 60332-1)
AS/NZS 3808	AS/NZS 1660.5.1 (Equivalent to IEC60332-3-24)
AS/NZS 1125	

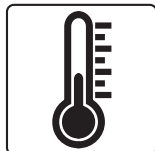
Characteristics



FLAME RETARDANT



UV RESISTANT



-40°C ~ +90°C



FLEXIBLE

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1C XLPE Insulated SDI Cables 0.6/1kV, Flexible 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/km)
					During Installation	After Installation	
7816XT-OR	16	5.4	0.7	9.6	60	40	208
7825XT-OR	25	6.9	0.9	11.5	72	48	306
7835XT-OR	35	8.6	0.9	13.2	83	55	410
7850XT-OR	50	10.4	1.0	15.2	96	64	561
7870XT-OR	70	11.7	1.1	16.9	106	71	761
7895XT-OR	95	13.5	1.1	18.8	118	79	995
7812XT-OR	120	15.4	1.2	21.0	132	88	1248
7815XT-OR	150	16.4	1.4	22.5	142	95	1552
7818XT-OR	185	18.3	1.6	25.0	158	105	1905
7824XT-OR	240	20.8	1.7	27.9	176	117	2433
7830XT-OR	300	23.2	1.8	30.7	193	129	3010
*SM7840XT-OR	400	29.2	2.0	37.5	236	158	4004
*SM7805XT-OR	500	32.2	2.2	41.2	260	173	4972
*SM7863XT-OR	630	35.5	2.4	45.1	284	189	6302

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

Conductor Size (mm ²)	†Current-carrying capacity (A)				Maximum D.C. Resistance of conductor at 20°C (Ω/km)	Reactance at 50Hz (Trefoil) (Ω/km)
	In Air Touching Flat	In Air Enclosed	In Ground	In Ground Enclosed		
16	85	73	117	85	1.21	0.101
25	114	94	151	109	0.780	0.0973
35	141	118	180	134	0.554	0.0930
50	178	144	214	163	0.386	0.0901
70	225	183	262	203	0.272	0.0869
95	271	214	313	237	0.206	0.0849
120	322	256	356	279	0.161	0.0828
150	372	291	400	316	0.129	0.0830
185	427	334	452	357	0.106	0.0821
240	514	391	523	416	0.0801	0.0808
300	591	458	589	479	0.0641	0.0800
400	709	533	668	554	0.0486	0.0788
500	821	630	752	642	0.0384	0.0780
630	956	719	843	729	0.0287	0.0777

†Based on trefoil formation, ambient air temperature of 40°C, soil temperature of 25°C, burial depth of 0.5m and soil thermal resistivity of 1.2K.m/W.

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