



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

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	
*SMMV33C7X3C50HP	50	8.30	8.0	69.5	1878	1127	5.1
*SMMV33C10X3C70HP	70	9.95	8.0	73.4	1983	1190	6.2
*SMMV33C10X3C95HP	95	11.60	8.0	77.0	2080	1248	7.4
*SMMV33C10X3C120HP	120	13.03	8.0	80.5	2173	1304	8.4
*SMMV33C10X3C150HP	150	14.57	8.0	83.8	2263	1358	9.6
*SMMV33C10X3C185HP	185	16.18	8.0	87.7	2368	1421	11.0
*SMMV33C10X3C240HP	240	18.43	8.0	93.0	2510	1506	13.2
*SMMV33C10X3C300HP	300	20.61	8.0	98.1	2648	1589	15.6
*SMMV33C10X3C400HP	400	23.79	8.0	105.3	2843	1706	19.1
*SMMV33C10X3C500HP	500	27.20	8.0	113.1	3053	1832	28.8

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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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