

Constructional and Electrical Performance Data

6181XLPE – Surface Wiring Cable



Construction	Solid or stranded plain annealed copper conductors, Cross-Linked Polyethylene (XLPE) insulation, Polyvinyl Chloride (PVC) sheath.		
Specification	BS7889 Table 3	Voltage Rating	0.6/1.0 kV
Operating Temperature	0°C (Min) to 90°C (Max)		
Standard Colours	Core : Red or Black Sheath : Black		
Harmonised Code	National Type		
Approvals	None		

No. of cores & Nominal Cross Sectional Area of Conductor	Current Rating*		Voltage Drop*			Maximum DC Conductor Resistance @ 20°C	Nominal Overall Diameter	Nominal Weight	AEI Product Code
	2 Cables Single Phase (Touching) ac or dc	3 or 4 Cables Three Phase (Flat & Touching) ac	2 Cables dc	2 Cables Single Phase (Touching) ac or dc	3 Cables Three Phase (Flat & Touching) ac				
no x mm ²	Amps	Amps	mV/A/M	mV/A/M	mV/A/M	Ω/Km	mm	Kg/Km	
1 x 50.00	228.00	209.00	0.99	1.00	0.87	0.387	14.00	550.00	
1 x 70.00	293.00	268.00	0.68	0.71	0.61	0.268	16.00	800.00	
1 x 95.00	355.00	326.00	0.49	0.52	0.45	0.193	18.00	1050.00	
1 x 120.00	413.00	379.00	0.39	0.43	0.37	0.153	20.00	1300.00	
1 x 150.00	476.00	436.00	0.32	0.36	0.31	0.124	22.00	1600.00	
1 x 185.00	545.00	500.00	0.25	0.30	0.26	0.0991	24.00	1950.00	
1 x 240.00	644.00	590.00	0.190	0.25	0.22	0.0754	27.00	2550.00	
1 x 300.00	743.00	681.00	0.155	0.22	0.195	0.0601	30.00	3200.00	
1 x 400.00	868.00	793.00	0.120	0.20	0.175	0.0470	33.00	4050.00	
1 x 500.00	990.00	904.00	0.093	0.185	0.160	0.0366	37.00	5050.00	
1 x 630.00	1130.00	1033.00	0.072	0.175	0.150	0.0283	41.00	6450.00	
1 x 800.00	1288.00	1179.00	0.056	0.170	0.145	0.0221	48.00	8250.00	
1 x 1000.00	1443.00	1323.00	0.045	0.165	0.140	0.0176	54.00	10300.00	

* The current rating and voltage drop factors are extracted from Appendix 4 of BS7671, Requirements for Electrical Installations: IEE Wiring Regulations Sixteenth Edition, table 4E1A, for cables installed "Clipped direct" Reference Method 1. (Trefoil)

! Sectoral conductors.

General Note
AEI Cables reserves the right to amend the product information without notice or liability.
The information is considered accurate at the time of going to print.

© AEI Cables Limited Durham Road, Birtley, Chester-le-Street, County Durham DH3 2RA

Telephone: +44 (0) 191 410 3111 Facsimile: +44 (0) 191 410 8312
Email: sales@aeicables.co.uk or technical@aeicables.co.uk

Website: www.aeicables.co.uk



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