



BRINGS ENERGY TO LIFE

Conditions:

Rated Voltage : 450/750V
 Ambient temperature : 30°C
 Conductor operating temperature : 70°C for BSEN 50525-2-31/IEC60227 (H07V-U / H07V-R) 1/C PVC

BSEN50525-2-31/IEC60227
(H07V-U/H07V-R) 1/C PVC

Cable (mm ²)	2x		3x/4x		1/C Phase Reactances at 50Hz (Ohm/km)	3/C Phase Reactances at 50Hz (Ohm/km)	Max. A.C. resistance at 90°C (ohm/km)	Max. D.C. resistance at 20°C (ohm/km)
	Enclosed in conduit or in Trunking current rating Single phase A.C.(A)	Single phase (AC) Appox. Volt Drop mV/A/m	Enclosed in conduit or in Trunking current rating 3 phase A.C.(A)	Three phase (AC) Appox. Volt Drop mV/A/m				
1.5	17.5	29	15.5	25	0.157	0.172	17.3	12.1
2.5	24	18	21	15	0.143	0.159	9.45	7.41
4	32	11	28	9.5	0.137	0.152	5.88	4.61
6	41	7.3	36	6.4	0.128	0.143	3.93	3.08
10	57	4.4	50	3.8	0.118	0.134	2.33	1.83
16	76	2.8	68	2.4	0.111	0.126	1.47	1.15
25	101	1.8	89	1.55	0.106	0.121	0.927	0.727
35	125	1.3	110	1.1	0.101	0.117	0.668	0.524
50	151	1	134	0.81	0.0962	0.111	0.494	0.387
70	192	0.72	171	0.61	0.0917	0.107	0.342	0.268
95	232	0.56	207	0.48	0.0904	0.106	0.247	0.193
120	269	0.47	239	0.41	0.087	0.102	0.197	0.153
150	300	0.41	262	0.36	0.0868	0.102	0.16	0.124
185	341	0.37	296	0.32	0.0862	0.101	0.129	0.0991
240	400	0.33	346	0.29	0.0847	0.0999	0.0991	0.0754
300	458	0.31	394	0.27	3.0839	0.0991	0.0803	0.0601
400	546	0.29	467	0.25	0.0829	0.0982	0.0646	0.047
500	626	0.28	533	0.25	0.082	0.0973	0.0525	0.0366
630	720	0.27	611	0.24	0.08	0.0952	0.0432	0.0283

Temperature Rating Factors

Ambient temp °C:	25	30	35	40	45	50	55
Rating factor:	1.03	1	0.94	0.87	0.79	0.71	0.61

Correction Factors for Grouping

No of Circuits:	2	3	4	5	6	7	8
Rating factor:	0.8	0.7	0.65	0.6	0.57	0.54	0.52