



**BRINGS ENERGY TO LIFE**

Conditions:

Rated Voltage : 450/750V  
 Ambient temperature : 30°C  
 Conductor operating temperature : 90°C for BSEN 50525-3-41 (H07Z-R) 1/C LSHF

Cable (mm <sup>2</sup> )	<b>BSEN50525-3-41 (H07Z-R) 1/C LSHF</b>							
	Enclosed in conduit or in Trunking current rating Single phase A.C.(A)	2x Single phase (AC) Appox. Volt Drop mV/A/m	3x/4x Enclosed in conduit or in Trunking current rating 3 phase A.C.(A)	3x/4x Three phase (AC) Appox. Volt Drop mV/A/m	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)
1.5	22	31	19	27	0.155	0.17	17.3	12.1
2.5	30	19	26	16	0.141	0.156	9.45	7.41
4	40	12	35	10	0.131	0.146	5.88	4.61
6	51	7.9	45	6.8	0.123	0.138	3.93	3.08
10	71	4.7	63	4	0.114	0.129	2.33	1.83
16	95	2.9	85	2.5	0.106	0.122	1.47	1.15
25	126	1.9	111	1.65	0.102	0.118	0.927	0.727
35	156	1.35	138	1.15	0.0982	0.113	0.668	0.524
50	189	1.05	168	0.9	0.0924	0.108	0.494	0.387
70	240	0.75	214	0.65	0.0893	0.104	0.342	0.268
95	290	0.58	259	0.5	0.0868	0.102	0.247	0.193
120	336	0.48	299	0.42	0.0844	0.0996	0.197	0.153
150	375	0.43	328	0.37	0.0843	0.0996	0.16	0.124
185	426	0.37	370	0.32	0.0835	0.0988	0.129	0.0991
240	500	0.33	433	0.29	0.0818	0.097	0.0991	0.0754
300	573	0.31	493	0.27	0.0809	0.0961	0.0803	0.0601
<b>Non BASEC size</b>								
400	683	0.29	584	0.25	0.0802	0.0955	0.0646	0.047
500	783	0.28	666	0.24	0.0796	0.0948	0.0525	0.0366
630	900	0.27	764	0.23	0.0787	0.094	0.0432	0.0283

**Temperature Rating Factors**

Ambient temp °C:	25	30	35	40	45	50	55
Rating factor:	1.02	1	0.96	<b>0.91</b>	0.87	0.82	0.76

**Correction Factors for Grouping**

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