

Conductor Short-Circuit Ratings

PVC Insulated Cables

Short-Circuit Ratings

Conductor Size mm ²	0.2s duration kA	1.0s duration kA	3.0s duration kA
1.5	0.385	0.172	0.099
2.5	0.642	0.287	0.165
4.0	1.02	0.460	0.265
6.0	1.54	0.690	0.398
10	2.57	1.15	0.663
16	4.11	1.84	1.06
25	6.42	2.87	1.65
35	9.0	4.02	2.32
50	12.8	5.75	3.31
70	18.0	8.05	4.64
95	24.4	10.9	6.30
120	30.8	13.8	7.96
150	38.5	17.2	9.95
185	47.5	21.2	12.2
240	61.7	27.6	15.9
300	77.1	34.5	19.9
400	92.1	41.2	23.7
500	115	51.5	29.7
630	145	64.8	37.4

N.B: The above ratings assume an adiabatic temperature rise and are based on a conductor temperature of 70°C at start of short-circuit and 140/160°C* at end of short-circuit.

* 160°C cables up to and including 300mm²

* 140°C cables above 300mm²

Conductor Short-Circuit Ratings

XLPE Insulated Cables

Short-Circuit Ratings

Conductor Size mm ²	0.2s duration kA	1.0s duration kA	3.0s duration kA
1.5	0.479	0.214	0.123
2.5	0.799	0.357	0.206
4.0	1.27	0.572	0.330
6.0	1.91	0.858	0.495
10	3.19	1.43	0.825
16	5.11	2.28	1.32
25	7.99	3.57	2.06
35	11.1	5.0	2.88
50	15.9	7.15	4.12
70	22.3	10.0	5.77
95	30.3	13.5	7.84
120	38.3	17.1	9.9
150	47.9	21.4	12.3
185	59.1	26.4	15.2
240	76.7	34.3	19.8
300	95.9	42.9	24.7
400	127	57.2	33.0
500	159	71.5	41.2
630	201	90.0	52.0

N.B: The above ratings assume an adiabatic temperature rise and are based on a conductor temperature of 90°C at start of short-circuit and 250°C at end of shortcircuit.