

Ratings information

Rating factors – 1.9/3.3kV to 19/33kV, single and three core cables, armoured or unarmoured

1. Cables buried direct in the ground:

Variation in ground temperature							
Ground temperature °C	10	15	20	25	30	35	40
Rating factor	1.11	1.07	1.03	1.00	0.97	0.93	0.89

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Variation in thermal resistivity of soil		Values of 'g' °C m/W							
Nominal area of conductor mm ²		0.8	0.9	1.0	1.2	1.5	2.0	2.5	3.0
Rating factor									
Single core cables	Up to 150	1.16	1.11	1.07	1.00	0.91	0.81	0.73	0.67
	From 185 - 400	1.17	1.12	1.07	1.00	0.90	0.80	0.72	0.66
	Above 400	1.18	1.13	1.08	1.00	0.90	0.79	0.71	0.65
Three core cables	Up to 16	1.09	1.06	1.04	1.00	0.95	0.87	0.79	0.74
	From 25 - 150	1.14	1.10	1.07	1.00	0.93	0.84	0.76	0.70
	From 185 - 400	1.16	1.11	1.07	1.00	0.92	0.82	0.74	0.68

Variation in depth of laying		
*Depth of laying m	Up to 300 mm ²	Above 300 mm ²
0.8	1	1
1	0.98	0.97
1.25	0.96	0.95
1.5	0.95	0.94
1.75	0.94	0.92
2	0.92	0.90
2.5	0.91	0.89
3.0 or more	0.90	0.88

*Measured to centre of cable or trefoil group of cables.

Variation in depth of laying		
*Depth of laying m	Up to 300 mm ²	Above 300 mm ²
0.8	1	1
1	0.98	0.97
1.25	0.96	0.95
1.5	0.95	0.94
1.75	0.94	0.92
2	0.92	0.90
2.5	0.91	0.89
3.0 or more	0.90	0.88

*Measured to centre of cable or trefoil group of cables.