

CURRENT RATINGS (XLPE)

Basic assumption and conditions of installation

Max. Conductor temperature at continuous operation	90°C
Ambient Air temperature	40°C
Ground temperature	30°C
Thermal Resistivity of soil	150°C Cm/W
Depth of laying	750 mm
Max. Conductor temperature for short circuit	250°C

Rating Factors for Variation in Ground Temperature

Ground temperature °C	15	20	25	30	35	40
Rating Factor	1.12	1.08	1.03	1.00	0.96	0.91

Rating Factors for Variation in Ambient Air Temperature

Air temperature °C	25	30	35	40	45	50
Rating Factor	1.14	1.10	1.04	1.00	0.95	0.90

Rating factors cables laid directly laid in ground in horizontal formation

No. of Cables	Distance of Cables			
	Touching	15 cm	30 cm	45 cm
2	0.79	0.82	0.87	0.90
3	0.69	0.75	0.79	0.83
4	0.62	0.69	0.74	0.79
5	0.58	0.65	0.72	0.76
6	0.54	0.61	0.69	0.75

Rating factor for variation in depth of laying in ground

Depth of laying	Size		
	Upto 25 mm ²	25 to 300 mm ²	Above 300 mm ²
75 cm	1.00	1.00	1.00
90 cm	0.99	0.98	0.97
105 cm	0.98	0.97	0.96
120 cm	0.97	0.96	0.95
150 cm	0.96	0.94	0.92
180 >	0.95	0.93	0.91