

## CURRENT RATINGS (XLPE)

### Basic assumption and conditions of installation

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

### 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

Ground 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 Cable	Distance of Cable			
	Touching	15cm	30cm	45cm
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 <sup>2</sup>	25 to 300 mm <sup>2</sup>	Above 300 mm <sup>2</sup>
75	1.00	1.00	1.00
90	0.99	0.98	0.97
105	0.98	0.97	0.96
120	0.97	0.96	0.95
150	0.96	0.94	0.92
180	0.95	0.93	0.91

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