

# CURRENT RATINGS ( XLPE)

## Basic assumption and conditions of installation

Max. Conductor Temperature at conditious 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 Factor For Variation in Ground Temperature

Ground Temperature °C	15	20	25	30	35	40	45
Rating Factor	1.17	1.12	1.06	1.00	0.94	0.87	0.79

## Rating Factor For Variation in Ambient Air Temperature

Air temperature °C	25	30	35	40	45	50
Rating Factor	1.25	1.16	1.09	1.00	0.90	0.80

## Rating factors cable laid directly laid in horizontal formation

No . Of Cables	Distance of Cables			
	Touching	15 cm	30 cm	45 cm
2	0.79	0.82	0.87	0.9
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

No of laying Cm	SIZE		
	Upto 25 mm <sup>2</sup>	Above 25 mm <sup>2</sup> mm upto 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