

1.1 Clearances of deflected Bar Conductors or Live Parts (Outdoor)

Nominal/ Operating Voltage (kV)	Minimum Safety Clearances (mm)			
	..to Walkways (for pedestrians), Residential Areas	..to public Roads/Highway Surfaces	..to Buildings, Roofs, Structures, Light Poles, etc. inside of Electrical Installation/Reservation Boundaries	..over Pipeline
0.4	3000	6000/10000	3000	8000
132	7500	9000/10000	5000	9000
220	8000	9000/10000	6000	9000
400	9000	11000/12000	7000	11000

1.2 Minimum Height and Protective Barrier Clearances of Outdoor Installations (DIN VDE 0101)

Nominal/ Operating Voltage (kV)	Minimum Horizontal Clearances between Live Parts (mm) and....			
	..solid panel wall with a min. height of 1800 mm	..wire mesh	..rail, chain, rope with a min. height of 1100 mm	..substation perimeter walls of min. 1800 mm height
0.4	100	200	400	1000
132	1200	1300	1500	2700
220	2100	2200	2400	3600
400	3400	3500	3700	4900

1.3 Live Conductor Crossings

Where a live conductor crosses another live conductor, clearances shall be as under:

Nominal / Operating Voltage (kV)	Min. Electrical Clearances (mm)				
		132 kV	220 kV	400 kV	Tele-Communication Line
0.4		4500	5000	5000	3500
132		4500	5000	5000	4500
220		5000	5000	5000	5000
400		5000	5000	5000	5000