

Permissible minimum bending radius according to DIN VDE specifications

The indicated values for bending radius stated in the following table are not permitted to fall below the value. For non-compliance of the values a short longevity is to be expected.

Permissible minimum bending radius for power cables according to DIN VDE 0298 – part 3 – Nominal voltage 0,6/1 kV

● Cables for fixed installation

method of laying	Outer \varnothing of cables or thickness of flat cable in mm (D)			
	up to 10 mm	> 10 to 25 mm	> 25 mm	
– for permanent laying	4xD	4xD	4xD	
– to form out	1xD	2xD	3xD	
● for flexible cables	up to 8 mm	> 8 to 12 mm	> 12 to 20 mm	> 20 mm
– for fixed installation	3xD	3xD	4xD	4xD
– for free movement	3xD	4xD	5xD	5xD
– to the inlet	3xD	4xD	5xD	5xD
– for forced guiding operation (such as trailing)	5xD	5xD	5xD	6xD
– operation for trolley cable	3xD	4xD	5xD	5xD
– operation in power drag chain	4xD	4xD	5xD	5xD
– operation for return sheave	7,5xD	7,5xD	7,5xD	7,5xD

D = outer \varnothing of cables or thickness of flat cable

Permissible minimum bending radius according to DIN VDE 0891 – part 5 for installation cable and wires according to DIN VDE 0815

Type	for transport	repeated bending under stress	bending for one time without stress
J-Y(St)Y... Lg	7,5xD	7,5xD	5xD
JE-Y(St)Y... Bd			2,5xD
JE-H(St)H... Bd			
JE-H(St)H... Bd FE			
JE-YCY... Bd			
JE-HCH... Bd			
JE-LIYCY... Bd			
JE-LIHCH... Bd			
JE-LIYY... Bd			
JE-LIHH... Bd			
J-YY... Bd			
J-HH... Bd			
J-Y(St)Y... Bd			
J-H(St)H... Bd			

D = outer \varnothing of cable

Note: For the individual application above the range of specification, the indications in respect of cable recommendations should be considered.