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-complience 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 Ø of cables or thickness of flat cable in mm (D) up to 10 mm	> 10 to 25 mm	> 25 mm
– for permanent laying	4 x D	4 x D	4 x D
– to form out	1 x D	2 x D	3 x D

• **for flexible cables**	up to 8 mm	> 8 bis 12 mm	> 12 to 20 mm	> 20 mm
– for fixed installation	3 x D	3 x D	4 x D	4 x D
– for free movement	3 x D	4 x D	5 x D	5 x D
– to the inlet	3 x D	4 x D	5 x D	5 x D
– for forced guiding operation (such as trailing)	5 x D	5 x D	5 x D	6 x D
– operation for trolly cable	3 x D	4 x D	5 x D	5 x D
– operation in power drag chain	4 x D	4 x D	5 x D	5 x D
– operation for return sheave	7,5 x D	7,5 x D	7,5 x D	7,5 x D

D = outer Ø 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 stres
J-Y(St)Y . . . Lg			5 x D
JE-Y(St)Y . . . Bd			
JE-H(St)H . . . Bd			
JE-H(St)H . . . Bd FE			
JE-YCY . . . Bd			
JE-HCH . . . Bd			
JE-LiYCY . . . Bd	7,5 x D	7,5 x D	2,5 x D
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 Ø of cable
Note: For the individual application above the range of specification, the indications in respect of cable recommendations should be considered.