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