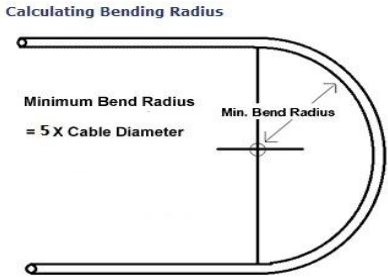


Radius curve for rubber cables



NEXANS FRANCE FRBH
TECHN DEPT
March 2013

FLEXIBLE WIRES AND CABLES

CENELEC HD 22 New EN 50525 rubber categories
ref Guide To Use CENELEC HD 516

MINIMUM RADIUS CURVE <i>Permissible Bending Radii for Laying on 20°C (+/-10°C)</i> <small>Harmonized wires and cables acc. HD 516 S2:1997 + A1:2003 (and equivalent national standards as NF C 32 080 , DIN VDE 0298-300)</small>	Cable diameter D (in mm)			
	D ≤ 8	8 ≤ D ≤ 12	12 ≤ D ≤ 20	D > 20
For fixed installations	3 D	3 D	4 D	4 D
Free moveable	4 D	4 D	5 D	6 D
At the entry to mobile devices and tools without mechanical load on the wiring	4 D	4 D	5 D	6 D
With mechanical load ¹	6 D	6 D	6 D	8 D
Festooned as on a gantry crane	6 D	6 D	6 D	8 D
For repeated winding operations ¹	6 D	6 D	6 D	8 D
Looped around via deflection pulley ¹	6 D	8 D	8 D	8 D

1) see definition of dynamic stress in HD document if necessary normally limited to 15N/mm² of total cross sections limited to 1000 N maxi