

WILBAwind 0.6/1 kV, Cu, torsion

Halogen free single core low voltage cable EPR/PUR

Application:

EPR/PUR single core cable designed especially for the use between nacelle and tower of wind energy turbines.

Construction:

- Cu cord flex, class 5 as per IEC 60228 torsion resistant construction
- EPR insulation, colour black
- PUR jacket FRNC

Description:

- very robust and durable
- very good resistance to abrasion
- very good flexibility at low temperatures
- excellent resistance to high temperatures
- halogen free
- flame retardant
- very good oil and petrol resistance
- resistance to ozone and weathering
- nominal voltage U_0/U 0.6/1 kV
- operating voltage max. AC U_0/U 0.72/1.2 kV
DC U_0/U 0.9/1.8 kV
- test voltage 3 kV AC
- min. bending radius $6 \times D$ (D = outer \varnothing)

Torsion resistance:

- +/- 150° per metre

Temperature range:

- - 40 °C ... + 90 °C
- short term application up to + 110 °C
- in case of a short circuit + 250 °C for 5 s

Jacket colour:

- black, similar to RAL 9005

Applicable standards:

- construction according to VDE 0250-813
- IEC 60332-1 flame retardance
- IEC 60754-1 halogen content
- IEC 60754-2 corrosivity of fumes
- IEC 60811-2-1 resistance to oil
- DIN EN 50396 resistance to ozone
- ISO 4982-2 UV resistance (test method A)

Remarks:

- other types upon request
- version suitable for off-shore applications upon request



Technical data

Cross section mm ²	Part no.	Ø d1 approx. mm	Ø D approx. mm	Cu content kg/km	Weight kg/km
1 x 120	525000	19.1	22.1	1060	1340
1 x 150	525001	20.6	23.8	1300	1650
1 x 185	525002	22.6	26.0	1650	1885
1 x 240	525003	26.0	29.6	2120	2405
1 x 300	525004	28.2	32.2	2620	2960

d1 diameter over insulation

D outer diameter

Cross section mm ²	Admissible tensile force max. N	Current carrying capacity ¹ A		Short circuit current max. kA (1 s)
		freely suspended	in contact with a surface	
1 x 120	1800	489	465	17.1
1 x 150	2250	564	536	21.4
1 x 185	2775	644	612	26.4
1 x 240	3600	776	737	34.3
1 x 300	4500	901	856	42.9

¹ referring to a single cable which is installed with at least 1 x D distance to the next cable under load at + 30 °C