

# WILBAwind 0.6/1 kV, Al, 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:**

- Al cord flex, in accordance with class 5 as per IEC 60228 special high tensile strength alloy 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  $\emptyset$ )

**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:**

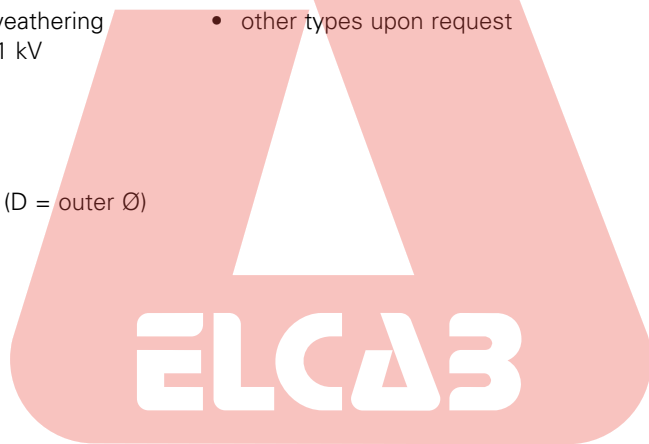
- black, similar to RAL 9005

**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



**Technical data**

Cross section mm <sup>2</sup>	Part no.	Ø d1 approx. mm	Ø D approx. mm	Al content kg/km	Weight kg/km
1 x 185	517325	21.8	25.2	555	775
1 x 240	517326	25.0	28.6	720	1000
1 x 300	517327	27.2	31.2	900	1230

d1 diameter over insulation

D outer diameter

Cross section mm <sup>2</sup>	Admissible tensile force max. N	Current carrying capacity <sup>1</sup> A		Short circuit current max. kA (1 s)
		freely suspended	in contact with a surface	
1 x 185	1665	503	478	17.0
1 x 240	2160	600	570	22.0
1 x 300	2700	695	660	27.6

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