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 endurable
- 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 x D (D = outer Ø)

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 mm²	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 mm²	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 185	1665	503	478	17.0
1 x 240	2160	600	570	22.0
1 x 300	2700	695	660	27.6

[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