

WILBAwind LV, CU, cl.5, 90°C

401_90°C

Halogen-free, flexible double-layer copper cable class 5 for wind turbines

Application

Optimized cable for use in wind energy plants

Materials and components

- Cu conductor bare class 5 (IEC 60228), finely stranded
- Core insulation made of cross-linked EPR
- Core colour BK
- Outer sheath made of flame-resistant, cross-linked polyolefine (XLPO)

Jacket colour

- Black similar to RAL 9005

Functions

- Flexible
- Good oil and petrol resistance
- Halogen-free
- High abrasion resistance
- High mechanical strength

Environmental conditions

- Good resistance at high and low temperatures
- Flexible at low temperatures
- Ozone- and weather-resistant
- UV radiation-resistant
- Flame retardancy

Performance

Mechanical properties

- Max. tensile load 20N/mm² Cu cross-section
- Min. bending radius 6 x D (D = cable Ø)

Nominal voltage

- Nominal voltage [AC]: U_o / U 600 V / 1,000 V

Operating voltage

- Operating voltage max. [AC]: U_o / U 0.72 / 1.2kV; [DC]: U_o / U 0.9 / 1.8kV

Test voltage

- Test voltage: Spark tester during production

Temperature range

- -40°C ... +90°C
- In event of short-circuit, +250°C for 5 sec.

Standards

- Based on DIN VDE 0250-813
- EN 50396 Ozone resistance
- IEC 60332-1-2 Flame retardancy
- IEC 60754-1 Halogen-free
- IEC 60754-2 Corrosivity of fumes
- IEC 60811-404 Resistance to oil
- IEC 61034-2 Low smoke development
- ISO 4982-2 UV resistance

CPR Guideline

- Fire reacton class acc. EN 13501-6: Eca

Remarks

- d1=Ø across core
- D= total Ø
- d2=Ø across copper cord
- Other types upon request

**Technical data**

Cross-section mm ²	Part no.	Conductor code	Ø D mm	Ø d2 approx. mm	Ø d1 approx. mm	Copper index kg/km	Weight kg/km
10	525022	1L	8.8 ± 0.2	4.1	6.1	96	140
16	525023	1L	11.1 ± 0.3	5.0	8.2	154	240
25	525024	1L	11.9 ± 0.3	6.4	8.8	240	350
35	525025	1L	13.4 ± 0.3	8.1	10.5	336	460
50	525011	1L	15.9 ± 0.4	9.4	12.6	480	630
70	525026	1L	18.4 ± 0.4	11.3	15.3	672	815
95	525012	1L	20.4 ± 0.4	13.1	17.1	912	1060
120	525027	1L	23.1 ± 0.4	14.8	19.7	1152	1420
150	525028	1L	25.4 ± 0.4	16.5	21.8	1440	1600
185	525029	1L	27.4 ± 0.4	18.7	23.8	1776	1910
240	525014	1L	29.6 ± 0.5	21.2	25.8	2304	2470
300	525030	1L	33.5 ± 0.5	23.7	29.5	2880	3060
400	525031	1L	37.0 ± 0.5	28.2	33.0	3840	3981

