WILBAwind LV, ALU Cl.2, 90°C

410_90°C

Halogen-free, double-layer aluminium cable class 2 for wind turbines

Application

FRNC cable specially designed and tuned for fixed installation in the tower of wind turbines.

Materials and components

- Al conductor class 2 (IEC 60228), cord
- 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

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

Environmental conditions

- Good resistance at high and 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 15 x D (D = cable Ø)

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

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

Test voltage
- Test voltage: Spark tester during production

Temperature range
- Fixed laying: -40°C ... +90°C
- Capable of carrying current for short time up to 110°C
- In event of short-circuit, +250°C for 5 sec.

Standards

- Based on HD 604 S1-H5
- IEC 60332-1-2 Flame retardancy
- IEC 60332-3-24 No fire propagation
- IEC 60754-1 Halogen-free
- IEC 60754-2 Corrosivity of fumes
- 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
- Other types upon request

Technical data

Cross-section mm²	Part no.	Conductor code	Ø D approx. mm	Ø d1 approx. mm	Alu-number kg/km	Weight kg/km
1X150		1L	19.8	17.2	435	570
1X185		1L	22.0	19.2	537	710
1X240		1L	24.2	21.4	696	890
1X300		1L	27.0	24.0	870	1095
1X400		1L	30.0	27.0	1160	1370

20260306/99666

BRUGG eConnect

BRUGG eConnect AG
Phone +41 (0)56 460 3300 • info.econnect@brugg.com