

**ÖLFLEX® CLASSIC 110 COLD**DB 1119660  
valid from: 2013-09-09**Application**

OLFLEX® CLASSIC 110 COLD cables are cold flexible power and control cables for flexible use and fixed installation for normal mechanical load conditions. They are among others designed for use in dry, damp and wet rooms. Outdoor use: They may only be installed with considering the temperature range. At room temperature they are widely resistant to acids, alkali-resistant and resistant to certain oils. They are suitable for free non-continuously recurring movement without tensile load or compulsory guidance.

## Application range:

Plant engineering, industrial machinery, heat and air conditioning systems, freezing plants, cold storage  
The cables are suitable for torsion application in wind turbines (WTG). The torsional load is limited to applications, as they typically occur in the loop of a wind turbine.

**Design**

Design	based on DIN EN 50525-2-51 resp. VDE 0285-525-2-51
Approvals	VDE-Reg. No. 8274
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 5
Core insulation	LAPP special PVC compound TI5 acc. to DIN EN 50363-3 resp. VDE 0207-363-3 with increased requirements
Core identification	acc. to VDE 0293-1, with or without GN/YE ground conductor black cores with white numbers acc. to DIN EN 50334 resp. VDE 0293-334
Outer sheath	PVC compound TM4 acc. to DIN EN 50363-4-1 bzw. VDE 0207-363-4-1

**Electrical properties**

Nominal voltage	U <sub>0</sub> /U: 300 / 500 V
Test voltage	4000 V AC

**Mechanical and thermal properties**

Min. bending radius	occasional flexing: 15 x outer diameter fixed installation: 4 x outer diameter
Temperature range	occasional flexing: -30 °C to +70 °C max. conductor temp. fixed installation: -40 °C to +80 °C max. conductor temp.
Torsion movement in WTG	TW-0 (5000 cycles at ≥ +5°C) TW-2 (2000 cycles at ≥ -40°C) ±150 °/m at 1 revolution per minute
Flammability	flame retardant acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2
Tests	acc. to IEC 60811 resp. VDE 0473 and VDE 0472
UV resistance	acc. to EN ISO 4892-2:2006, Method A, DIN EN 50289-4-17/VDE 0819-289-4-17, Method A
EC-Directives	This cable is conform to the EC-Directives 2006/95/EC (Low Voltage Directive) and 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).