

ÖLFLEX® CLASSIC 110 BLACK 0,6/1kV
DB 1120232
 valid from: 19.12.2012
Application

ÖLFLEX® CLASSIC 110 BLACK 0,6/1 kV cables are power and control cables with a black outer sheath for occasional flexible use and fixed installation subject to normal mechanical load conditions. They are among others designed for use in dry, damp and wet rooms. Outdoor use: They may only be installed considering the indicated temperature range. At room temperature they are widely resistant to acids, caustic solutions and certain oils. They are suitable for free non-continuously recurring movement without tensile load or compulsory guidance. In addition they are qualified for direct burial.

Application range:

Plant engineering and construction, industrial machinery, heating air conditioning systems, power station, stage application. 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 VDE 0250-1 and VDE 0276-627 bzw. HD 627 S1
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 5
Core insulation	LAPP special PVC compound P8/1, better than the PVC compound TI2 in acc. with EN 50363-3 resp. VDE 0207-363-3
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 TM2 acc. to EN 50363-4-1 resp. VDE 0207-363-4-1 colour: Black, similar RAL 9005

Electrical properties at 20 °C

Nominal voltage U_0/U	600 / 1000 V
Test voltage	4000 V AC

Mechanical and thermal properties

Min. bending radius	occasional flexing: 15 x cable diameter fixed installation: 4 x cable diameter
Temperature range	occasional flexing: -5 °C up to +70 °C max. conductor temp. fixed installation: -40 °C up to +80 °C max. conductor temp.
Torsion movement in WTG	TW-0 (5000 cycles at $\geq +5^\circ\text{C}$) TW-1 (2000 cycles at $\geq -20^\circ\text{C}$) $\pm 150^\circ/\text{m}$ at 1 revolution per minute
Flammability	flame retardant in acc. with IEC 60332-1-2 resp. VDE 0482-332-1-2
Ozone resistance	acc. to EN 50396



ÖLFLEX® CLASSIC 110 BLACK 0,6/1kV

DB 1120232
valid from: 19.12.2012**Mechanical and thermal properties (cont.)**

UV resistance	acc. to EN ISO 4892-2:2006, Method A, DIN EN 50289-4-17/VDE 0819-289-4-17, Method A
Direct burial	acc. to UL 1277
Tests	acc. to IEC 60811 resp. VDE 0473-811, VDE 0472, EN 50395, EN 50396
EC-Directives	These cables are conform to the EC-Directives 2006/95/EC (Low Voltage Directive) and 2002/95/EC and 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).