

1136510	DATA SHEET	
Valid from: 23.05.2018	ÖLFLEX® CLASSIC 115 CY BK	

Application

ÖLFLEX® CLASSIC 115 CY BK cables are control cables for occasional flexible use and fixed installation under normal mechanical load conditions. They are also suitable for use in dry, damp or wet areas. They are suitable for outdoor use if the indicated temperature range is observed. They are largely resistant to acids, alkalis and certain oils at room temperature. ÖLFLEX® CLASSIC 115 CY BK cables are suitable for occasional, non-automated movements. They meet the requirements for slow rotational movements, such as in the loop of a wind turbine. The maximum tensile load is 15 N/mm² of conductor cross-section during installation and operation. Compulsory guidance is not permitted. The screening braid protects against interference from electrical fields.

Application range:

Control units for machine tools, conveyor systems, measurement and control technology, office machines and systems for data processing. This cable is 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 EN 50525-2-51/ VDE 0285-525-2-51
Conductor	bare copper, fine wire strand in acc. to IEC 60228 resp. VDE 0295, class 5
Core insulation	PVC compound TI2 acc. to DIN EN 50363-3 resp. VDE 0207-363-3 with increased requirements acc. to Lapp specification
Core identification	according 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
Wrapping	plastic foil
Screen	Braid of tinned copper, coverage = 85% (nominal value)
Outer sheath	PVC compound TM2 acc. to DIN EN 50363-4-1 resp. VDE 0207-363-4-1, with increased requirements acc. to Lapp specifications Colour: black, similar RAL 9005

Electrical properties

Specific insulation resistance (20°C)	> 20 G Ω x cm
Nominal voltage	U ₀ / U: 300 / 500 V
Test voltage	core / core: 4000 V core / screen: 2000 V

Mechanical and thermal properties

Min. bending radius	occasional flexing: 20 x cable Ø fixed installation: 6 x cable Ø
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 ≥ +5°C) TW-1 (2000 cycles at ≥ -20°C) ± 150 °/m at 1 revolution per minute
Flammability	acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2
UV resistance	acc. to EN 50525-1 (VDE 0285-525-1) cable with black sheath are suitable for permanent outdoor use.

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UV resistant
acc. to EN 50618 resp. VDE 0283-618
acc. to EN 50620 resp. VDE 0285-620
acc. to EN ISO 4892-2-2013, method A (change of colour allowed)

Transfer impedance at 30 MHz max. 250 Ω/km

Tests acc. to IEC 60811, EN 50395, EN 50396

EU directive These cables are conform to the EU-Directives 2014/35/EU (Low Voltage Directive)

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