


0010400	DATA SHEET	
valid from: 29.03.2023	ÖLFLEX® CLASSIC 100 YELLOW	

Application

ÖLFLEX® CLASSIC 100 YELLOW cables are PVC connecting cables for flexible use and fixed installation for medium mechanical use for special warning feature acc. to EN 60204 part 1. They are suitable for use in dry, damp and wet areas. If using outdoors, observe the indicated temperature range and use with UV protection. They are largely resistant to acids, alkalis and certain oils at room temperature. ÖLFLEX® CLASSIC 100 YELLOW 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.

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 50525-2-11 EN 50525-2-51
Conductor	bare copper, fine wire strand acc. to IEC 60228 resp. EN 60228, Class 5
Insulation	PVC compound TI2 acc. to EN 50363-3 with increased requirements acc. to Lapp specification
Core identification code	Up to 5 cores coloured acc. to VDE 0293-308 with or without GN/YE ground conductor Starting at 5 cores ÖLFLEX colour code
Stranding	Cores are stranded in layers
Outer sheath	PVC compound TM2 acc. to EN 50363-4-1 with increased requirements acc. to LAPP specification colour: yellow, similar RAL 1016

Electrical properties at 20 °C

Nominal voltage	U ₀ / U: 450 / 750 V
Test voltage	core / core: 4000 V

Mechanical and thermal properties

Minimum bending radius	occasional flexing: 15 x outer diameter fixed installation: 4 x outer 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.
Torsional stress	in WTG: TW-0 (5000 cycles at ≥ +5 °C) TW-1 (2000 cycles at ≥ -20 °C) ± 150 °/m at 1 revolution per minute
Flammability	flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2

Tests

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

General requirements

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

Environmental information

These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

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