0035000	DATA SHEET	LAPP
valid from: 21.05.2024	ÖLFLEX® CLASSIC 100 CY 450/750 V	

Application

ÖLFLEX® CLASSIC 100 CY 450/750 V cables are power- and control cables for occasional flexible use and fixed installation for medium mechanical use. They are also suitable for use in dry, damp or 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.
They are suitable for occasional, non-automated movements. The maximum tensile load is 15 N/mm² of conductor cross-section during installation and operation. Compulsory guidance is not permitted.
The screen is a protection against electrical interference.

Application range: ÖLFLEX® CLASSIC 100 CY 450/750 V cables are used as power- and control cables in industrial machinery, in plant engineering and in power stations, in heating and air conditioning systems.

Design

Design	based on EN 50525-2-11 EN 50525-2-51 IEC 60227-5
Certification	EN 13501-6 and EN 50575 Classification of fire behaviour (article/dimension range see www.lappkabel.com/cpr)
Conductor	fine wire strands of bare copper 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	acc. to. VDE 0293-1, with or without GN/YE ground conductor up to 5 cores: acc. to HD 308 S2 from 6 cores: acc. to LAPP ÖLFLEX® color code
Stranding	cores are stranded in layers
Inner sheath	PVC based compound TM2 acc. to EN 50363-4-1 colour: silver grey, similar RAL 7001
Screen	braid of tinned copper, coverage = 85 % (nominal value)
Outer sheath	PVC compound TM2 acc. to EN 50363-4-1 colour: transparent

Electrical properties at 20 °C

Specific volume resistivity	> 20 G Ω x cm
Transfer impedance	max. 250 mΩ/m (at 30 MHz)
Nominal voltage	U_0 / U: 450 / 750 V fixed and protected installation: U_0 / U: 600 / 1000 V
Test voltage	core / core: 4000 V AC core / screen: 4000 V AC

Mechanical and thermal properties

Minimum bending radius	occasional flexing: 20 x outer diameter fixed installation: 6 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.
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 are conform to the EU-Directive 2014/35/EU (Low Voltage Directive). A part of these cables (see www.lappkabel.com/cpr) are classified in accordance with the EU-Regulation no. 305/2011 (CPR).
Environmental information	These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

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