1313852	DATA SHEET	LAPP
valid from: 03.12.2020	ÖLFLEX® CLASSIC 400 CP	

Application

ÖLFLEX® CLASSIC 400 CP cables are oil resistant connection and control cables with a Polyurethan outer sheath, for flexible use and fixed installation for medium mechanical abuse. 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.
ÖLFLEX® CLASSIC 400 CP cables are increased resistant to oils and at room temperature largely resistant to acids and alkalis. The outer sheath withstands high mechanical stresses, in particular abrasion and dragging. It is also cut proof and resists microbes and hydrolysis. 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 screening braid protects against interference from electrical fields.

Application range:
Industrial machinery, machine tools, measurement-, control-, electrical applications, food production and packaging machinery.

Design

Design	based on EN 50525-2-51 EN 50525-2-21
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. EN 60228, cass 5
Insulation	LAPP special PVC compound P8/1, better than the PVC compound TI2, acc. to EN 50363-3
Core identification code	acc. to VDE 0293-1, with or without GN/YE ground conductor black cores with whit numbers acc. to EN 50334
Inner sheath	PVC compound TM2 acc. to EN 50363-4-1
Screen	braid of tinned copper, coverage = 85 % (nominal value)
Outer sheath	Polyurethane compound TMPU acc. to EN 50363-10-2 colour: silver grey, similar RAL 7001

Electrical properties at 20°C

Specific volume resistivity	> 20 GΩ x cm	
Transfer impedance	max. 250 mΩ/m (at 30 MHz)	
Nominal voltage	U_0 / U:	300 / 500 V
Test voltage	Core/Core: Core/Screen:	4000 V AC 4000 V AC

Mechanical and thermal properties

Minimum bending radius	occasional flexing: fixed installation:	20 x outer diameter 6 x outer diameter
Temperature range	occasional flexing: fixed installation:	- 5 °C up to +70 °C max. conductor temperature - 40 °C up to +80 °C max. conductor temperature
UV resistance	acc. to EN 50618 acc. to EN 50620 acc. to EN ISO 4892-2-2013, method A (change of colour allowed)	
Ozone resistance	acc. to EN 50396, method B	
Oil resistance	acc. to EN 50363-10-2	
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).	
Environmental information	These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).	