

1314000	DATA SHEET	
valid from: 05.05.2020	ÖLFLEX® CLASSIC 415 CP	

Application

ÖLFLEX® CLASSIC 415 CP cables are oil resistant 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 415 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

Design

Design	based on EN 50525-2-51 EN 50525-2-21
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	acc. to VDE 0293-1, with or without GN/YE ground conductor black cores with white numbers acc. to EN 50334
Stranding	cores are stranded in layers
Taping	plastic foil
Screen	braid of tinned copper, coverage = 85% (nominal value)
Outer sheath	Polyurethane compound TPU acc. to EN 50363-10-2 colour: silver grey, similar RAL 7001

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: 300 / 500 V
Test voltage	core / core: 4000 V AC core / screen: 2000 V AC

Mechanical and thermal properties

Minimum bending radius	occasional flexing: 20 x cable diameter fixed installation: 6 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.
UV resistance	acc. to EN 50618 acc. to EN 50620 acc. to EN ISO 4892-2-2013, method A (change of colour allowed)
Oil resistance	acc. to EN 50363-10-2
Tests	acc. to IEC 60811, EN 50395, EN 50396
General requirements	This cable is conform to the EU-Directives 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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