1135752	DATA SHEET	LAPP
valid from: 01.01.2019	ÖLFLEX® CLASSIC 110 CY	

Application

ÖLFLEX® CLASSIC 110 CY cables are VDE approved power and control cables for occasional flexible use and fixed installation for medium mechanical stresses. They are among others designed for use in dry, damp and wet conditions. 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 screening braid protects against interference from electrical fields.

Application range:
As power and connecting cable for control systems in machine tools, plant engineering and construction, industrial machin-ery, heating and air-conditioning systems, conveyor systems, production and assembly lines as well as in measuring and control technology and data processing systems.

Design

Design	based on EN 50525-2-51 resp. VDE 0285-525-2-51
Certification	⊲ VDE-REG 7030 ⊳
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 5
Insulation	PVC compound TI2 acc. to EN 50363-3 resp. VDE 0207-363-3 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 DIN EN 50334 resp. VDE 0293-334
Stranding	cores are stranded in layers
Inner sheath	PVC compound TM2 acc. to EN 50363-4-1 resp. VDE 0207-363-4-1 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 resp. VDE 0207-363-4-1 colour: transparent

Electrical properties at 20°C

Transfer impedance	max. 250 mΩ/m (at 30 MHz)
Rated voltage	U_0 /U: 300/500V
Test voltage	core / core: 4000 V AC core / screen: 4000 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.
Flammability	flame retardant acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2
Tests	acc. to IEC 60811, EN 50395, EN 50396
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)