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10019900	DATA SHEET	LAPP
valid from: 01.01.2019	ÖLFLEX® CLASSIC 110 H	

Application

ÖLFLEX® CLASSIC 110 H cables are halogen-free, oil resistant, highly flame retardant, power and control cables designed for the European and North American market, for occasional flexible use and fixed installation subject to normal mechanical load conditions. They are among others for use in dry and damp rooms. Considering the temperature range, a temporary outdoor use is possible. 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.
ÖLFLEX® CLASSIC 110 H cables are particularly used in areas, where human and animal life as well as valuable property are exposed to high risk of fire hazards. In the event of a fire minimal toxic and no corrosive gases occur.

Application range:
public buildings like airports or railway stations; plant engineering, industrial machinery; heating and air conditioning systems, stage applications

USE according to UL: FRPE sheathed cable for internal wiring of appliances and external interconnection or internal wiring of electronic equipment

Design

Design	acc. to UL AWM Style 21089, UL 758 and based on EN 50525-3-11 resp. VDE 0285-525-3-11 EN 50525-2-51 resp. VDE 0285-525-2-51
Certification	UL AWM Style 21089 (File No. 63634), UL 758 GL-Germanischer Lloyd (Certificate No. 11119-14 HH) VDE certified: supply cable with improved characteristics in case of fire and increased oil resistance 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. VDE 0295, Class 5
Insulation	halogen free compound TI6, polyolefin based, acc. to EN 50363-7 resp. VDE 0207-363-7, with increased requirements
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
Taping	non-woven wrapping optional
Outer sheath	halogen free compound HM2, polyolefin based, acc. to DIN VDE 0250-214, with increased requirements LAPP special compound LP Ultraflex FR Colour: Silver Grey, similar RAL 7001

Electrical properties at 20°C

Rated voltage	VDE U_0 / U:	300 / 500 V
	UL:	600 V
Test voltage	core / core:	4000 V AC

Mechanical and thermal properties

Minimum bending radius	occasional flexing:	10 x outer diameter
	fixed installation:	4 x outer diameter
Temperature range	occasional flexing (VDE):	-30 °C up to +70 °C max. conductor temp.
	occasional flexing (UL):	up to +75 °C max. conductor temp.
	fixed installation (VDE):	-40 °C up to +80 °C max. conductor temp.
	fixed installation (UL):	up to +75 °C max. conductor temp.
Flammability	acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2 UL: Cable flame test no flame-propagation acc. to IEC 60332-3-22 resp. VDE 0482-332-3-22 acc. to IEC 60332-3-24 resp. VDE 0482-332-3-24 or acc. to IEC 60332-3-25 resp. VDE 0482-332-3-25	
Halogen free	acc. to IEC 60754-1 resp. VDE 0482-754-1	
Corrosivity of gases	acc. to IEC 60754-2 resp. VDE 0482-754-2	

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Smoke density	acc. to IEC 61034-2 resp. EN 61034-2
Toxicity	acc. to NES 713-3, EN 50306-1 (≤ 3)
UV resistance	acc. to EN 50620 resp. VDE 0285-620 acc. to EN ISO 4892-2-2013, method A (change of colour allowed)
Ozone resistance	acc. to EN 50396 resp. VDE 0473-396, method B
Oil resistance	acc. to EN 50363-4-1 resp. VDE 0207-363-4-1 (TM5) UL OIL RES I und OIL RES II
Tests	acc. to IEC 60811, EN 50395, EN 50396, UL 1581
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).

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