ÖLFLEX® CLASSIC 110 CH

DB 10035030
valid from: 2013-11-08

Application

ÖLFLEX® CLASSIC 110 CH are screened, 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, damp and wet rooms. Considering the temperature range, a temporary outdoor use is possible. Continuous busy movements, compulsory guidance respectively usage on cable drums or pulleys or under a strain of more than 15 N / mm² is not allowed. ÖLFLEX® CLASSIC 110 CH 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. The screen is a protection against electrical interference.

Application range:
public buildings; airport, railway station; plant engineering, industrial machinery; heating and air conditioning systems, stage applications; in EMC sensitive environments (electromagnetic compatibility)

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

Design

Design	gem. UL AWM 758, Style 21089 and acc. to EN 50525-3-11 resp. VDE 0285-525-3-11
Approval	UL AWM 758, Style 21089 (File No. E63634)
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 5
Core insulation	halogen free compound TI6, polyolefin based, acc. to EN 50363-7 resp. VDE 0207-363-7, with increased requirements
Core identification	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
Inner sheath	halogen-free compound HM2, polyolefin based, acc. to DIN VDE 0250-214, with increased requirements, colour: silver grey, similar RAL 7001
Screen	braid of tinned copper, coverage = 85% (nominal value)
Outer sheath	halogen free compound HM2, polyolefin based, acc. to DIN VDE 0250-214, with increased requirements, LAPP LP Ultraflex FR colour: silver grey, similar RAL 7001

Electrical properties

Nominal voltage	VDE: U_0 / U	300 / 500 V
	UL:	600 V
Test voltage	Core / Core	4000 V AC
	Core / Screen	4000 V AC

Mechanical and thermal properties

Min. bending radius	occasional flexing:	15 x outer diameter
	fixed installation:	6 x outer diameter

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Temperature range	occasional flexing (VDE): -30 °C up to +70 °C max. conductor temp. occasional flexing (UL): -30 °C up to +75 °C max. conductor temp fixed installation (VDE): -40 °C up to +80 °C max. conductor temp. fixed installation (UL): -40 °C up to +75 °C max. conductor temp.
Flammability	flame retardant acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2 UL: Cable flame test no flame propagation acc. to IEC 60332-3-24 resp. EN 60332-3-24 resp. VDE 0482-332-3-24 or acc. to IEC 60332-3-25 resp. EN 60332-3-25 resp. VDE 0482-332-3-25
Halogen free	acc. to IEC 60754-1 resp. DIN EN 50267-2-1 resp. VDE 0482-267-2-1
Corrosivity	acc. to IEC 60754-2 resp. DIN EN 50267-2-2 resp. VDE 0482-267-2-2
Toxicityindex	acc. to NES 713 issue 3, EN 50306-1 (≤ 3)
Smoke density	acc. to IEC 61034-2
Oil resistance	acc. to EN 50363-4-1 resp. VDE 0207-363-4-1 (TM5) UL OIL RES I and OIL RES II
UV resistance	acc. to EN ISO 4892-2-2006, method A (change of colour allowed)
Ozone resistance	acc. to EN 50396 resp. VDE 0473-396, method B
Tests	acc. to IEC 60811, EN 50395, EN 50396, UL 1581
EC-Directives	This cable is conform to the EC-Directives 2006/95/EC (Low Voltage Directive) and 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).