

1002140	DATA SHEET	 LAPP
Valid from: 24.10.2018	ÖLFLEX® CLASSIC 110 H SF	

Application

ÖLFLEX® CLASSIC 110 H SF cables are halogen-free, oil resistant, highly flame retardant power and control cables for occasional flexible use and fixed installation subject to normal mechanical load conditions. They are also suitable for use in dry or damp areas. They are suitable for outdoor use if the indicated temperature range is observed. ÖLFLEX® CLASSIC 110 H SF cables are suitable for free and limited continuously recurring movement without tensile load or compulsory guidance. The maximum tensile load is 15 N/mm² of conductor cross-section during installation and operation.

Application range: Public buildings, airports, railway stations, plant engineering and construction, air conditioning systems, stage applications and particularly where human and animal life as well as valuable property are exposed to high risk of fire hazards.

Design

Design	based on EN 50525-3-11 resp. VDE 0285-525-3-11 EN 50525-2-51 resp. VDE 0285-525-2-51
Classification	EN 45545-2: Hazard Level HL1; HL2; HL3
Conductor	extra fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 6
Core isolation	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
Outer sheath	halogen free compound HM2, polyolefin based, acc. to DIN VDE 0250-214, with increased requirements colour: black, similar RAL 9005

Electrical properties at 20°C

Specific insulation resistance	> 20 G Ω x cm
Nominal voltage	U ₀ / U: 300 / 500 V
Test voltage	core / core: 4000 V AC

Mechanical and thermal properties

Min. bending radius	occasional flexing: 10 x cable diameter fixed installation: 4 x cable diameter
Power chain	Min. bending radius 12,5 x cable diameter Travelling distance up to 5 m 200.000 - 500.000 bending cycles
Temperature range	occasional flexing: -30 °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 flame propagation acc. to d ≥ 12 mm: IEC 60332-3-24 resp. VDE 0482-332-3-24 (Cat. C) or 6mm < d < 12 mm: IEC 60332-3-25 resp. VDE 0482-332-3-25 (Cat. D) resp. EN 50305, 9.1.1 or d ≤ 6mm: EN 50305, 9.1.2

AbN
automation

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Halogen-free	acc. to IEC 60754-1 resp. EN 60754-1
Ozone resistance	acc. to EN 50396 resp. VDE 0473-396, method B
UV resistance	acc. to EN 50620 resp. VDE 0285-620 acc. to EN ISO 4892-2-2013, method A (change of colour allowed)
Oil resistance	acc. to EN 50363-4-1 resp. VDE 0207-363-4-1, TM5
Smoke density	acc. to IEC 61034-2 resp. EN 61034-2
Toxicity (≤ 3)	acc. to NES 713 issue 3, EN 50306-1
Corrosivity	acc. to IEC 60754-2 resp. EN 60754-2
Tests	acc. to IEC 60811, EN 50395, EN 50396
EU directive	These cables are conform to the EU-Directives 2014/35/EU (Low Voltage Directive).