1002164 DATA SHEET

Valid from: 24.10.2018 ÖLFLEX® CLASSIC 115 CH 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. The screening braid protects against interference from electrical fields.

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

Approvals 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 Tl6, 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

Wrapping plastic foil

Screen Braid of tinned copper wires

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 $> 20 \text{ G }\Omega \text{ x cm}$

Nominal voltage U_0 / U: 300 / 500 V

Test voltage core / core: 4000 V

core / screen: 2000 V

Mechanical and thermal properties

Min. bending radius occasional flexing: 15 x cable diameter

fixed installation: 6 x cable diameter

Power chain Min. bending radius 15 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.

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Flammability flame retardant acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2

flame propagation acc. to

 $d \ge 12$ 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

 $d \le 6$ mm: EN 50305, 9.1.2

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 (\leq 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).

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