

1 123557	DATA SHEET	
valid from: 21.05.2024	ÖLFLEX® CLASSIC 128 CH BK 0.6/1 kV	

Application

ÖLFLEX® CLASSIC 128 CH BK 0.6/1 kV are screened, halogen free, flame retardant power and control cables for occasional flexible use and fixed installation subject to medium 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.

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: Public buildings, airports, railway stations, plant engineering and construction, air conditioning systems and particularly where as well human and animal life as valuable property are exposed to high risk of fire hazards. In the event of a fire minimal toxic and no corrosive gases occur.

Design

Design	based on EN 50525-3-11
Certification	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. EN 60228, Class 5
Insulation	halogen free compound TI6 acc. to EN 50363-7
Core identification code	acc. to VDE 0293-1, with or without GN/YE ground conductor up to 5 cores: acc. to HD 308 S2 from 6 cores: black with white numbers acc. to EN 50334
Stranding	cores are stranded in layers
Screen	braid of tinned copper, coverage = 85% (nominal value)
Outer sheath	halogen free compound TM7, acc. to EN 50363-8 colour: black, similar RAL 9005

Electrical properties at 20 °C

Specific volume resistivity	> 20 GΩ x cm
Transfer impedance	max. 250 mΩ/m (at 30 MHz)
Nominal voltage	U ₀ /U: 600/1000 V
Test voltage	core/core: 4000 V AC core/screen: 2000 V AC

Mechanical and thermal properties

Minimum bending radius	occasional flexing: 20 x outer diameter fixed installation: 6 x outer 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. EN 60332-1-2 no flame-propagation acc. to IEC 60332-3-24 resp. EN 60332-3-24 or acc. to IEC 60332-3-25 resp. EN 60332-3-25
Halogen free	acc. to IEC 60754-1 resp. EN 60754-1
Corrosivity of gases	acc. to IEC 60754-2 resp. EN 60754-2
Smoke density	acc. to IEC 61034-2 resp. EN 61034-2
Toxicity	acc. to EN 50306-1 (≤ 6)
UV resistance	acc. to EN 50525-1 cables with black sheath are suitable for permanent outdoor use. acc. to EN 50618 acc. to EN 50620 acc. to EN ISO 4892-2-2013, method A (change of colour allowed)
Ozone resistance	acc. to EN 50396, method B

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Tests	acc. to IEC 60811 resp. EN 60811, EN 50395, EN 50396
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).
Environmental information	These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

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