

1123557	<b>DATA SHEET</b>	
valid from: 14.11.2018	<b>ÖLFLEX® CLASSIC 128 CH BK 0.6/1 kV</b>	

## 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/mm<sup>2</sup> 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 resp. VDE 0285-525-3-11
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 up to 5 cores: acc. to VDE 0293-308 from 6 cores: black with white numbers acc. to DIN EN 50334 resp. VDE 0293-334
Stranding	cores are stranded in layers
Screen	braid of tinned copper, coverage = 85 % (nominal value)
Outer sheath	halogen free compound TM7, polyolefin based, acc. to EN 50363-8 resp. VDE 0207-363-8, with increased requirements 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)
Rated voltage	U <sub>0</sub> /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. VDE 0482-332-1-2 no flame propagation 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, VDE 0482-754-2
Smoke density	acc. to IEC 61034-2, EN 61034-2
Toxicity	EN 50306-1 (≤ 3)
UV resistance	Acc. to EN 50525-1 (VDE 0285-525-1) cables with black sheath are suitable for permanent outdoor use. acc. to EN 50618 resp. VDE 0283-618 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
Tests	acc. to IEC 60811, EN 50395, EN 50396
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)

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