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| 1 123520 | DATA SHEET |  |
| valid from: 21.05.2024 | ÖLFLEX® CLASSIC 128 H BK 0.6/1 kV | |

Application

ÖLFLEX® CLASSIC 128 H BK 0.6/1 kV are 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.

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

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| 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 |
| Outer sheath | halogen free compound TM7, acc. to EN 50363-8 colour: black, similar RAL 9005 |

Electrical properties at 20 °C


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| Specific volume resistivity | > 20 GΩ x cm |
| Nominal voltage | U ₀ /U: 600/1000 V |
| Test voltage | 4000 V AC |

Mechanical and thermal properties

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| Minimum bending radius | occasional flexing: 15 x outer diameter fixed installation: 4 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 |

Tests acc. to IEC 60811 resp. EN 60811, EN 50395, EN 50396

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General requirements

These cables 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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