

ÖLFLEX® CLASSIC 100 H

DB 0014150

valid from: 01.07.2015

Application

ÖLFLEX® CLASSIC 100 H are halogen free, highly flame retardant, oil resistant power cables for occasional flexible use and fixed installation subject to normal mechanical load conditions. They are among others designed for use in dry, humid or wet conditions. Outdoor use: They may only be installed with UV protection and considering the temperature range. They are suitable for non-continuously recurring movement without tensile load. Continuous operational movements, restricted guidance, usage of these cables in moving cable carriers or on motor drum guidance or under a strain of more than 15 N/mm² are not allowed.

Application range:

Public buildings, airport, railway station, plant engineering, industrial machinery, heating and air-conditioning systems and particularly where human and animal life as well as valuable property are exposed to high risk of fire hazards.

Design

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| Design | based on EN 50525-3-11 resp. VDE 0285-525-3-11, EN 50525-2-31 resp. VDE 0285-525-2-31, EN 50525-2-51 resp. VDE 0285-525-2-51 |
| Conductor | fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 5 |
| Core insulation | halogen free compound TI6 acc. to EN 50363-7 resp. VDE 0207-363-7 |
| Core identification | acc. to VDE 0293-1, with or without GN/YE ground conductor up to 5 cores: coloured acc. to VDE 0293-308 resp. HD 308 S2 |
| Outer sheath | halogen free compound TM7 acc. to EN 50363-8 resp. VDE 0207-363-8 color: silver grey, similar RAL 7001 |

Electrical properties

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| Nominal voltage | U ₀ / U: | 450 / 750 V |
| | fixed and protected installation: | 600 / 1000 V |
| Test voltage | Core / Core: | 4000 V AC |

Mechanical and thermal properties

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| Min. bending radius | occasional flexing: | 15 x outer diameter |
| | fixed installation: | 4 x outer diameter |
| Torsion movement in WTG | TW-0 (5.000 cycles at ≥ + 5 °C) TW-2 (2.000 cycles at ≥ -40 °C) ± 150° /m at 1 revolution per minute | |
| Temperature range | occasional flexing (VDE): | -30 °C up to +70 °C max. conductor temp. |
| | fixed installation (VDE): | -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 IEC 60332-3-24 resp. VDE 0482-332-3-24 or IEC 60332-3-25 resp. VDE 0482-332-3-25 | |
| Smoke density | acc. to IEC 61034-2 | |
| Toxicity | acc. to NES 713-3, EN 50306-1 (≤ 3) | |

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| Halogen-free | acc. to IEC 60754-1, EN 50267-2-1 |
| Corrosivity | acc. to IEC 60754-2, EN 50267-2-2 |
| Oil resistance | acc. to EN 50363-4-1 resp. VDE 0207-363-4-1 (TM5) UL OIL RES I und OIL RES II |
| Ozone resistance | acc. to EN 50396 resp. VDE 0473-396, method B |
| Tests | acc. to IEC 60811, EN 50395, EN 50396 |
| EC-Directives | This cable is conform to the EC-Directives 2006/95/EC (Low Voltage Directive) and 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances). |