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| | 0035000 | DATA SHEET |  |
| | ÖLFLEX[®] CLASSIC 100 CY 450/750 V | | |

Application

ÖLFLEX[®] CLASSIC 100 CY 450/750 V cables are power- and control cables for occasional flexible use and fixed installation for medium mechanical use. They are also suitable for use in dry, damp or wet areas. If using outdoors, observe the indicated temperature range and use with UV protection. They are largely resistant to acids, alkalis and certain oils at room temperature.

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 screen is a protection against electrical interference.

Application range: ÖLFLEX[®] CLASSIC 100 CY 450/750 V cables are used as power- and control cables in industrial machinery, in plant engineering and in power stations, in heating and air conditioning systems.

Design

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| Design | based on EN 50525-2-11 EN 50525-2-51 IEC 60227-5 |
| Conductor | fine wire strands of bare copper, acc. to IEC 60228, Class 5 |
| Insulation | PVC based compound TI2 acc. to EN 50363-3 resp. VDE 0207-363-3 with increased requirements acc. to Lapp specification |
| Core identification code | acc. to. VDE 0293-1, with or without GN/YE protective conductor with up to 5 cores: acc. to VDE 0293-308 / HD 308 S2 more than 6 cores: acc. to LAPP-ÖLFLEX [®] color code |
| Inner sheath | PVC based compound TM2 acc. to EN 50363-4-1 resp. VDE 0207-363-4-1 colour: silver grey, similar RAL 7001 |
| Screen | braid of tinned copper, coverage = 85 % (nominal value) |
| Outer sheath | PVC based compound TM2 in acc. to EN 50363-4-1 resp. VDE 0207-363-4-1 colour: transparent |

Electrical properties at 20 °C

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

Mechanical and thermal properties

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| 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 |

Tests

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

General requirements

These cables conform to the EU-Directive 2014/35/EU (Low Voltage Directive)

Environmental information

These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

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