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| 0022700 | DATA SHEET |  |
| valid from: 18.12.2024 | ÖLFLEX® ROBUST 215 C | |

Application

ÖLFLEX® ROBUST 215 C cables are screened control cables for flexible use and fixed installation for a robust mechanical use. They are also suitable for use in dry, damp or wet areas.

They are suitable for outdoor use if the indicated temperature range is observed. At room temperature, they are increased resistant to the effects of acids, alkalis and oils, as well as greases and plant-, animal-, mineral- or synthetic-based waxes. They are suitable for constant use in fresh water to a depth of 10 m and at a maximum water temperature of 40°C acc. to EN 50565-2. The screening braid protects against interference from electrical fields.

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.

All materials used are halogen-free.

Application range

ÖLFLEX® ROBUST 215 C cables are used as flexible control cable in machine tool building, in medical technology, in laundries, in car washing equipment, in composting plants, in sewage, in submersible pumps and in EMC-sensitive environments (electromagnetic company). They are for use in the food and beverage industry, especially for production and processing equipment of milk and meat products.

Design

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| Design | based on EN 50525-2-5 1 |
| Conductor | fine wire strands of bare copper, acc. to IEC 60228 resp. EN IEC 60228, class 5 |
| Insulation | modified PP-compound |
| Core identification code | acc. to VDE 0293, with or without GN/YE ground conductor black cores with white numbers acc. to EN 50334 |
| Wrapping | insulating foil of plastic |
| Screen | braid of tinned copper, coverage = 85 % (nominal value) |
| Outer sheath | special TPE-compound colour: black, similar RAL 9005 |

Electrical properties at 20 °C

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| Nominal voltage | U ₀ / U: | 300 / 500 V |
| Test voltage | Core/Core: | 4000 V AC |
| | Core/Screen: | 2000 V AC |

Mechanical and thermal properties

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| Minimum bending radius | occasional flexing: 12,5 x outer diameter fixed installation: 6 x outer diameter |
| Temperature range | occasional flexing: -40 °C up to +80 °C max. conductor temperature fixed installation: -50 °C up to +80 °C max. conductor temperature |
| UV resistance | 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 |
| Oil resistance | TM5 acc. to EN 50363-4-1 |
| Water-resistance | acc. to EN 50525-2-21 |

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

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