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|---------------------------|-----------------------|---|
| 0015703                   | <b>DATA SHEET</b>     |  |
| valid from:<br>01.01.2019 | <b>ÖLFLEX® 150 CY</b> |   |

## Application

ÖLFLEX® 150 CY cables are oil resistant power and control cables designed for the European, North American and Canadian market, for occasional flexible use and fixed installation subject to normal mechanical load conditions. 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.

ÖLFLEX® 150 CY cables are increased resistant to oils and at room temperature largely resistant to acids and alkalis. 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.

Application range: Plant engineering, industrial machinery, heating and air-conditioning systems

HAR: DIN EN 50565-1 resp. VDE 0298-565-1 and DIN EN 50565-2 resp. VDE 0298-565-2

acc. to UL: PVC-sheathed cables for external interconnection or internal wiring of electric and electronic equipment,

Use when getting in contact with oil not above +60 °C (60 °C oil rating)

acc. CSA: CSA AWM I A/B II A/B, cables for internal or external interconnection with or without mechanical load

## Design

|                          |  |
|--------------------------|--|
| Design                   | <p>≤ 60 cores: acc. to EN 50525-2-51 resp. VDE 0285-525-2-51</p> <p>≥ 61 cores: based on EN 50525-2-51 resp. VDE 0285-525-2-51</p> <p>UL AWM Style 21098, UL 758, CSA C22.2 No. 210-15</p>   |
| Certification            | <p>UL AWM Style 21098 (File No. E63634), UL 758</p> <p>CSA AWM I A/B II A/B (File No. LL 53776)</p> <p>≤ 60 cores: acc. to H05VVC4V5 acc. to EN 50525-2-51 resp. VDE 0285-525-2-51</p> <p>≥ 61 cores: based on EN 50525-2-51 resp. VDE 0285-525-2-51</p> |
| Conductor                | fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 5  |
| Insulation               | PVC compound T12 acc. to DIN EN 50363-3 resp. VDE 0207-363-3 (UL/CSA 90°C rating)  |
| Core identification code | acc. to VDE 0293-1, with or without GN/YE ground conductor<br>black cores with white numbers acc. to DIN EN 50334 resp. VDE 0293-334   |
| Inner sheath             | PVC compound TM 2 acc. to DIN EN 50363-4-1 resp. VDE 0207-363-4-1 (UL/CSA 90°C rating)   |
| Screen                   | braid of tinned copper, coverage = 85% (nominal value)   |
| Outer sheath             | PVC compound TM5 acc. to DIN EN 50363-4-1 resp. VDE 0207-363-4-1 (UL/CSA 90°C rating)<br>colour: silver grey, similar RAL 7001   |

## Electrical properties at 20°C

|               |   |
|---------------|---|
| Rated voltage | <p>U<sub>0</sub> / U in acc. to HAR: 300 / 500 V</p> <p>U acc. to UL / CSA: 600 V</p> |
| Test voltage  | <p>core / core: 3000 V AC</p> <p>core / screen: 3000 V AC</p>                         |

## Mechanical and thermal properties

|                        |  |
|------------------------|--|
| Minimum bending radius | <p>occasional flexing: 20 x outer diameter</p> <p>fixed installation: 6 x outer diameter</p>   |
| Temperature range      | <p>occasional flexing: acc. to HAR -5 °C up to +70 °C max. conductor temp.<br/>acc. to UL / CSA -5 °C up to +90 °C max. conductor temp.</p> <p>fixed installation: acc. to HAR -40 °C up to +70 °C max. conductor temp.<br/>acc. to UL / CSA up to +90 °C max. conductor temp.</p> |
| Flammability           | <p>HAR: acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2</p> <p>UL: vertical flame test VW-1</p> <p>CSA: FT 1</p>  |
| Oil resistance         | <p>TM 5 acc. to DIN EN 50363-4-1 resp. VDE 0207-363-4-1</p> <p>UL: 80 °C rating acc. to UL 758</p> <p>CSA: CSA 22.2 No. 210-15</p>   |
| Tests                  | acc. to IEC 60811, EN 50395, EN 50396, UL 1581 and CSA 22.2  |
| General requirements   | These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)  |

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