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|---------------------------|-----------------------|---|
| 0011180                   | <b>DATA SHEET</b>     |  |
| valid from:<br>01.01.2019 | <b>ÖLFLEX® 191 CY</b> |   |

## Application

ÖLFLEX® 191 CY cables are screened oil resistant control cables for the European, Northern 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® 191 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

USE according to UL: PVC sheathed cables for external interconnection or internal wiring of electronic equipment, appliances where exposed to oil at a temperature not exceeding 80° C

USE according to CSA: I A/B and II A/B. Cables for internal wiring or external interconnection with or without mechanical abuse

## Design

|                          |  |
|--------------------------|--|
| Design                   | acc. to UL AWM Style 21098, UL 758, CSA AWM C22.2 No. 210-15<br>based on DIN EN 50525-2-51 resp. VDE 0285-525-2-51                   |
| Certification            | UL AWM Style 21098 (File No. 63634)<br>CSA AWM I A/B, II A/B (File No. LL 53776)   |
| Conductor                | fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 5  |
| Insulation               | PVC compound (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 (UL / CSA 90°C Rating)<br>colour: silver grey, similar RAL 7001   |
| Screen                   | braid of tinned copper wires, coverage = 85% (nominal value)   |
| Outer sheath             | PVC compound (UL / CSA 90°C Rating)<br>colour: silver grey, similar RAL 7001   |

## Electrical properties at 20°C

|                             |  |
|-----------------------------|--|
| Specific volume resistivity | > 20 G Ω x cm  |
| Rated voltage               | U <sub>0</sub> / U in acc. to VDE 300 / 500 V<br>U acc. to UL/ CSA 600 V |
| Test voltage                | core / core: >4000 V AC<br>core / screen: >4000 V AC                     |

## Mechanical and thermal properties

|                        |   |
|------------------------|---|
| Minimum bending radius | occasional flexing: 20 x outer diameter<br>fixed installation: 6 x outer diameter   |
| Temperature range      | occasional flexing: acc. to VDE -5 °C up to +70 °C max. conductor temp.<br>acc. to UL / CSA -5 °C up to +90 °C max. conductor temp.<br>fixed installation: acc. to VDE -40 °C up to +70 °C max. conductor temp.<br>acc. to UL / CSA up to +90 °C max. conductor temp. |
| Flammability           | flame retardant in acc. with IEC 60332-1-2 resp. VDE 0482-332-1-2<br>UL: Cable flame test, VW-1<br>CSA: FT1   |
| Oil resistance         | VDE: EN 50363-4-1 resp. VDE 0472-363-4-1<br>UL: 80°C rating acc. to. UL 758<br>CSA: acc. to CSA C22.2 No. 210-15  |
| Tests                  | acc. to IEC 60811, EN 50395, EN 50396   |
| General requirements   | This cable is conform to the EU-Directive 2014/35/EU (Low Voltage Directive).   |

AbN  
automation

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