

0011113	DATA SHEET	
valid from: 01.01.2019	ÖLFLEX® 191	

Application

ÖLFLEX® 191 cables are 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 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/mm² of conductor cross-section during installation and operation. Compulsory guidance is not permitted.

Application range: Plant engineering, industrial machinery, heating and air-conditioning systems and machine tools
 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 (80°C oil rating)
 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 based on DIN EN 50525-2-51 resp. VDE 0285-525-2-51
 Certification UL AWM Style 21098 (File No. 63634)
 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
 black cores with white numbers acc. to DIN EN 50334 resp. VDE 0293-334
 Outer sheath PVC compound (UL / CSA 90°C Rating)
 colour: silver grey, similar RAL 7001

Electrical properties at 20°C

Specific volume resistivity > 20 G Ω x cm
 Rated voltage U₀ / U in acc. to VDE 300 / 500 V
 U acc. to UL/ CSA 600 V
 Test voltage core / core >4000 V AC

Mechanical and thermal properties

Minimum bending radius occasional flexing: 20 x outer diameter
 fixed installation: 6 x outer diameter
 Temperature range occasional flexing: acc. to VDE -5 °C up to +70 °C max. conductor temp.
 acc. To UL/CSA -5 °C up to +90 °C max. conductor temp.
 fixed installation: acc. To VDE -40 °C up to +70 °C max. conductor temp.
 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
 UL: Cable flame test, VW-1
 CSA: FT1
 Oil resistance VDE: EN 50363-4-1 resp. VDE 0472-363-4-1
 UL: 80°C rating acc. to. UL 758
 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).

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