

0011113	DATA SHEET	
valid from: 09.03.2021	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 acc. 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 acc. 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
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. EN 60228, 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 EN 50334
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
Nominal voltage	U ₀ / U in acc. to EN: 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: 15 x outer diameter fixed installation: 4 x outer diameter
Temperature range	occasional flexing: acc. to EN -5 °C up to +70 °C max. conductor temperature acc. to UL/CSA -5 °C up to +90 °C max. conductor temperature fixed installation: acc. to EN -40 °C up to +70 °C max. conductor temperature acc. to UL/CSA up to +90 °C max. conductor temperature
Flammability	flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2 UL: Cable flame test, VW-1 CSA: FT1
Oil resistance	EN: EN 50363-4-1 UL: 80 °C rating acc. to. UL 758 CSA: acc. to CSA C22.2 No. 210-15
Tests	acc. to IEC 60811 resp. EN 60811, EN 50395, EN 50396
General requirements	This cable is 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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