

ÖLFLEX® 191 CY
DB 0011180
 valid from: 2013-11-08

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 among others designed for use in dry, damp and wet conditions. Outdoor use: They may only be installed with UV protection and considering the temperature range. ÖLFLEX® 191 CY cables are increased oil resistant and at room temperature widely resistant against acid and caustic solutions. They are suitable for non-continuously recurring movement without tensile load. Continuous operational movements, restricted guidance, usage of these cables in moving cable carriers or on motor drum guidance or under a strain of more than 15 N/mm² are not allowed.

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 758; Style 10012 and 21098 CSA AWM C22.2 No. 210-11
	based on	DIN EN 50525-2-51 resp. VDE 0285-525-2-51
Approval	UL	UL AWM, Style 10012 and 21098 or 2587(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
Core insulation		PVC compound (UL/CSA 90°C rating)
Core identification		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
Inner sheath		PVC compound (UL/CSA 90°C rating)
Screen		braid of tinned copper wires, coverage = 85% (nominal value)
Outer sheath		PVC compound ((UL / CSA 90°C Rating) Colour: silver grey, similar RAL 7001

Electrical properties

Nominal voltage	VDE:	U ₀ /U	300 / 500 V
	UL/CSA		600 V
Test voltage	C / C; C / S		≥4000 V AC
Specific insulation resistance			> 20 GΩ x cm

Mechanical and thermal properties

Min. bending radius	occasional flexing:	20 x outer diameter
	fixed installation:	6 x outer diameter

Originator:	KASC/ PDC	Document:	DB0011180EN	page 1 of 2
Approved:	HAPF / PDC			



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Temperature range	occasional flexing (VDE):	-5 °C up to +70 °C max. conductor temp.
	occasional flexing (UL / CSA):	-5 °C up to +90 °C max. conductor temp.
	fixed installation (VDE):	-40 °C up to +70 °C max. conductor temp.
	fixed installation (UL/CSA):	-40 °C up to +90 °C max. conductor temp.
Oil resistance	VDE:	EN 50363-4-2 resp. VDE 0472-363-4-1
	UL:	80°C rating acc. to. UL 758
	CSA:	acc. to CSA C22.2 No. 210-11
Flammability	flame retardant in acc. with IEC 60332-1-2 resp. VDE 0482-332-1-2	
	UL: Cable flame test, VW-1	
	CSA: FT1	
Tests	acc. to IEC 60811, EN 50395, EN 50396	
EC-Directives	This cable is conform to the EC-Directives 2006/95/EC (Low Voltage Directive) and 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).	

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