


10292510	DATA SHEET	
valid from: 23.03.2026	ÖLFLEX® ROBOT 928 D	

Application

ÖLFLEX® ROBOT 928 D cables are data cables designed for the European and North American market, for flexibel use and fixed installation under moderate mechanical stress in moderate conditions. They are suitable for linear, automated movements (power chains), as well as torsional applications in robots and automated handling machines. The maximum tensile load is 15 N/mm² of conductor cross-section during installation and operation. Compulsory guidance is not permitted. They are also suitable for use in dry, damp or wet areas. They are suitable for outdoor use if the indicated temperature range is observed. ÖLFLEX® ROBOT 928 D are largely resistant to acids, alkalis and certain oils at room temperature.

Design

Design	acc. to UL AWM Style 20601, UL 758 CSA C22.2 No. 210 based on EN 50525-2-51
Certification	UL: AWM Style 20601, UL 758 (File No. E63634) AWM I/II A/B (File No. E63634)
Conductor	extra fine wire strands of tinned copper wires
Insulation	PP
Core identification code	acc. to DIN 47100
Cable assembly	cores (pairs) stranded in layers with short lay length
Wrapping	nonwoven polyester tape
Screen	tinned copper conductor spinning
Outer sheath	PVC acc. to EN 50363-4-1, UL 758, CSA C22.2 No. 210 colour: black, similar RAL 9005

Electrical properties at 20 °C

Specific volume resistivity	> 2500 M Ω x km
Nominal voltage	EN: 48 V /peak operating voltage 350 V
Rated voltage	UL/CSA: 300 V
Test voltage	core / core: 1500 V AC core / screen: 1200 V AC

Mechanical and thermal properties

Minimum bending radius	flexing: 15 x outer diameter fixed installation: 4 x outer diameter
Temperature range	flexing EN: -5 °C up to +70 °C max. conductor temperature UL: -5 °C up to +80 °C max. conductor temperature fixed installation EN: -40 °C up to +70 °C max. conductor temperature UL: up to +80 °C max. conductor temperature
Bending cycles and power chain operation parameters	Travel distance: 5 m Acceleration: 3 m/s ² Velocity: 3 m/s Cycles: 2.000.000
Torsional stress	max. torsion angle: ± 180°/m cycles: 2.000.000
Flammability	flame retardand acc. to: IEC 60332-2-2 resp. EN 60332-2-2 UL: horizontal flame test acc. to UL 1581, Section 1090 CSA: FT2 acc. to CSA C22.2 No. 2556, § 9.1
UV resistance	Acc. to EN 50525-1 are cables with black sheath suitable for a permanent outdoor use.

Tests

acc. to IEC 60811, EN 50395, EN 50396, UL 758, UL 1581, CSA C22.2 No. 210

General requirements

These cables are conform to the EU-Directives 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).

Environmental information

These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

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