

ÖLFLEX® FD 855 P

DB 0027530

valid from: 18.04.2016

Application

ÖLFLEX® FD 855 P cables are oil-resistant, low capacitance control and supply cables designed for the European and North American market, with an outer sheath of Polyurethane for especially high flexible use and fixed installation under normal mechanical load conditions. They are among others designed for use in dry, damp or wet conditions. Considering the indicated temperature range an outdoor use is possible.

ÖLFLEX® FD 855 P cables are increased oil resistant and at room temperature widely resistant to acids and caustic solutions. The outer sheath is resistant to high mechanical load, particularly to abrasion and scouring, is cut resistant, microbe-proof and hydrolysis resistant. Usage on cable drums or pulleys or under a tensile strain of more than 15 N/mm² conductor cross-section is not allowed. The used materials are halogen-free.

Application range:

Power chains, also for long travel distance, moving machine parts, machine tools and transfer lines, mechanical engineering, construction machinery, in all kinds of machines.

USE acc. to UL: PUR sheathed cable for internal wiring

USE acc. to cRU: PUR sheathed cable for internal or external use with or without mechanical abuse

Design

Design	according to UL AWM 758, Style 21576 and based on EN 50525-2-51 resp. VDE 0285-525-2-51 and EN 50525-2-21 resp. VDE 0285-525-2-21
Approvals	UL AWM 758, Style 21576 (File No. E63634) cRU AWM I/II A (File No. E63634)
Conductor	extra fine wire strands of bare copper acc. to IEC 60228 resp. VDE 0295, Class 6
Core insulation	TPE (Thermoplastic Elastomer)
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 part 334
Outer sheath	Polyurethane-compound Tmpu acc. to EN 50363-10-2 resp. VDE 0207-363-10-2 Colour: Grey, similar RAL 7001

Electrical properties

Nominal voltage	VDE U ₀ /U: 300/500 V UL/cRU: 1000V
Test voltage	Core/Core: 3000 V AC

Mechanical and thermal properties

Min. bending radius	flexing: 5 x cable diameter fixed installation: 3 x cable diameter
Number of bending/unbending cycles	10 mio. cycles
Travel distance	100 m Please refer to the assembly guidelines listed in Appendix T3 in our catalogue.
Temperature range	flexing: -40 °C up to +80 °C max. conductor temp. fixed installation: -50 °C up to +80 °C max. conductor temp.



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Flammability	flame retardant acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2 CSA: FT2
Oil resistance	acc. to EN 50363-10-2 resp. VDE 0207-363-10-2
MUD resistance	acc. to IEC 61892-4 Annex D
Halogen free	acc. to VDE 0472-815
UV resistance	acc. to EN ISO 4892-2-2006, method A (change of colour allowed)
Ozone resistance	acc. to EN 50396 resp. VDE 0473-396, method B
Tests	acc. to IEC 60811 resp. VDE 0473 part 811, VDE 0472, EN 50395, EN 50396, UL 1581, CSA C22.2
EC directive	These cables are conform to the EU-Directives 2014/35/EU (Low Voltage Directive) and 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).