



ÖLFLEX® FD 855 CP

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Application

ÖLFLEX® FD 855 CP cables are oil-resistant control and supply cables with an outer sheath of Polyurethane for especially high flexible use and fixed installation under medium mechanical load conditions. They are among others designed for use in dry, damp or wet rooms. Considering the indicated temperature range an outdoor use is possible. ÖLFLEX® FD 855 CP cables are increased oil resistant and at room temperature widely resistant to acids and caustic solutions. The Polyurethane outer sheath is resistant against high mechanical load, particularly to abrasion and scouring, cut resistant, microbe-proof and hydrolysis resistant. They are especially for use in power chains, also for long travel distance and high speed, handling tools and in permanently moved machine parts. Usage of these cables in moving cable carriers or on motor drum guidance or under a tensile strain of more than 15 N/mm² conductor cross-section is not allowed. The used materials are halogen-free. The screen is a protection against electrical interference.

Application range:

Power chains or moving machine parts, machine tools and transfer lines, mechanical engineering, construction machinery, control and regulation circuits, assembly lines, production lines, in all kinds of machines.

Design

Design	based on HD 21.13 S1 +A1 resp. VDE 0281-13 and HD 22.10 S2 resp. VDE 0282-10
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
Taping	nonwoven wrapping
Inner sheath	TPE (Thermoplastic Elastomer)
Screen	braid of tinned copper wires, coverage = 85% (nominal value)
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	U ₀ /U: 300/500 V
Test voltage	Core/Core and Core/Screen: 3000 V AC

Mechanical and thermal properties

Min. bending radius	flexing: 7.5 x cable diameter fixed installation: 4 x cable diameter
Temperature range	flexing: -40 °C up to +80 °C max. conductor temp. fixed installation: -50 °C up to +80 °C max. conductor temp.
Flammability	flame retardant in acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2
Oil resistance	acc. to EN 50363-10-2 resp. VDE 0207-363-10-2
Halogen free	acc. to VDE 0472-815
MUD resistance	acc to IEC 61892-4 Annex D
Travel distance	in power chains typical 50 m, max. 100 m (horizontal)
Tests	acc. to IEC 60811 resp. VDE 0473 part 811, VDE 0472, EN 50395
EC directive	This cable is conform to the EC-Directives 2006/95/EC (Low Voltage Directive) and 2002/95/EC (RoHS, Restriction of the use of certain hazardous substances).