



DATA SHEET	0027550
ÖLFLEX® FD 855 P 12 G 0,75 mm²	valid from : 09.06.2008

Application

ÖLFLEX® FD 855 P cables are especially high flexible oil resistant control- and supply cables special for use in power chains, automatic manipulators, in permanently moved machine parts, also for long travel lengths and high speeds. They are for use in dry, damp and wet rooms and outside as well. Usage on motor drum guidance or under a strain of more than 15 N / mm² is not allowed.

ÖLFLEX® FD 855 P cables are increased oil resistant and at room temperature generally resistant against acids and caustic solutions. The outer sheath of Polyurethane is resistant against high mechanical abuse, particularly to abrasion cuts, microbe-proof and hydrolysis resistant. The used materials are halogen-free.

Design

Design	in support to HD 21.13 S1 resp. VDE 0281-13, HD 22.10 S2 resp. VDE 0282-10
Conductor	superfine 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 gn/ye ground conductor black cores with white numbers acc. to DIN EN 50334 resp. VDE 0293 part 334
Outer sheath	Polyurethane-compound TPU in acc. to HD 22.10 S2 resp. VDE 0282-10, additional flame retardant and halogen free

Electrical properties at 20 °C

Nominal voltage	300 / 500 V
Test voltage	3000 V AC

Mechanical and thermal properties

Temperature range	for flex. applications -40 °C up to +80 °C max. conductor temperature fixed installation -50 °C up to +80 °C max. conductor temperature
Min. bending radius	3 x cable diameter for fixed installation 5 x cable diameter for flex. applications
Flammability	flame retardant in acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2
Oil resistance	acc. to IEC 60811-2-1 resp. VDE 0473 part 811-2-1
Tests	acc. to IEC 60811-x-x resp. VDE 0473 part 811-x-x and VDE 0472
EC directive	this cable confirms to ECD 2006/95/EC (low voltage directive).

Dimension 12 G 0,75 mm²

The following nominal values we can specify for the capacity and inductance at 800 Hz:

Capacity A/A	77 nF/km
Inductance	0,50 mH/km
Conductor resistance	max. 26,0 ohm/km, at 20 °C