

ÖLFLEX® FD ROBUST
TPE-insulated, numbered, TPE-sheath



Info

- Robust and weatherproofed
- High chemical resistance
- Temperature range: -40°C up to +105°C

Benefits

- Well-proven, reliable
- Wide range use
- All-weather control cable
- For indoor and outdoor use

Application range

- In power chains or moving machine parts
- Machine tool manufacture, medical technology, laundries, car washing equipment, chemical industry, composting plants, sewage works
- Food and beverage industry, especially for production and processing equipment of milk and meat products
- Especially in wet areas of machine tools and transfer lines subject to average mechanical stress
- In environments where exposed to oils, fats, waxes (vegetable or animal based or synthetic) or their emulsions

Product features

- Low adhesive surface

- Largely resistant to oil and chemicals
- Hydrolysis resistant against warm and hot water
- In dry, damp or wet interiors under medium mechanical load conditions
- Designed for up to 5 million bending change cycles in the power chain

Approvals (Norm references)



- For travel distances up to 100 m (horizontal)
- Usage in Power Chains: Please comply with the assembly guidelines Appendix T3

Design

- Superfine wire, tinned copper strands
- Core insulation: TPE
- Cores twisted together in extremely short lay lengths
- Nonwoven wrapping
- Robust outer sheath made of special halogen-free TPE, black (RAL 9005)

Technical data

- Core identification code**
Black cores with printed white numbers (VDE 0293)
- Based on**
VDE 0250/0281/0282
- Specific insulation resistance**
> 20 GOhm x cm
- Conductor stranding**
Extra fine wire according to VDE 0295 Class 6 / IEC 60228 Class 6
- Minimum bending radius**
For flexible applications:
7.5 x cable diameter (at temperatures < 70 °C)
10 x cable diameter (at temperatures max. 105 °C)
Static:
4 x cable diameter
- Rated voltage**
U₀/U:
300/500 V
- Test voltage**
3000 V
- Protective conductor**
G = with protective conductor GN/YE
X = without protective conductor
- Range of temperature**
Flexing: -40°C up to +105°C
Fixed installation: -50°C up to +110°C
Briefly up to +120°C

Part number	Number of cores and mm ² per conductor	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.
ÖLFLEX® FD ROBUST				
0026501	3 G 0.75	7.2	21.6	51
0026502	4 G 0.75	8.3	28.8	69
0026503	5 G 0.75	9.2	36.0	87
0026504	7 G 0.75	11.1	50.4	127
0026505	12 G 0.75	12.9	86.4	182
0026506	18 G 0.75	15.8	129.6	277
0026507	25 G 0.75	19.6	180.0	421
0026509	3 G 1	7.5	28.8	63
0026510	4 G 1	8.5	38.4	82
0026511	5 G 1	9.5	48.0	105
0026516	7 G 1	12.1	67.2	157
0026517	12 G 1	13.9	115.2	226
0026518	18 G 1	17.2	172.8	345
0026521	3 G 1.5	9.1	43.2	90
0026522	4 G 1.5	10.3	57.6	118
0026523	5 G 1.5	11.5	72.0	149
0026524	7 G 1.5	14.1	100.8	233
0026525	12 G 1.5	16.3	172.8	322
0026526	18 G 1.5	20.0	259.2	494
0026527	25 G 1.5	24.6	360.0	695
0026531	4 G 2.5	12.3	96.0	181
0026532	5 G 2.5	13.7	120.0	228
0026533	7 G 2.5	16.4	168.0	329
0026534	12 G 2.5	19.2	288.0	491
0026541	4 G 4	14.1	153.6	261
0026551	4 G 6	15.6	230.4	356
0026561	4 G 10	20.0	384.0	596
0026571	4 G 16	24.3	614.4	910

Copper price basis: EUR 150 / 100 kg; For utilization and definition of 'Metal price basis' and 'Metal index' see Appendix T17
Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum
Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

Comparable products

- ÖLFLEX® FD 855 P see page 119

Accessories

- SILVYN® CHAIN Cable protection and guiding systems