



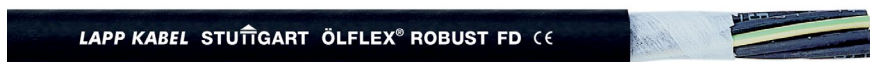
ÖLFLEX® ROBUST FD

Highly flexible, all-weather control cable with TPE sheath - resistant to a wide range of chemical media



Info

- Extended Line for heavy duty in power chain applications
- Good chemical resistance



Benefits

- Outstanding weather, ozone and UV resistance together with the wide temperature range enable versatile use for indoor and outdoor applications
- Resistant to contact with plant, animal or synthetic-based organic oils, greases, waxes and the related emulsions
- Good resistance to ammonia compounds and bio-gases
- Good resistance to cold and hot water as well as water-soluble cleaning agents
- Well-suited to frequent steam cleaning
- Low particle emission at moved chain application

Application range

- In power chains or moving machine parts
- Machine tool building, 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
- For indoor and outdoor use

Product features

- Designed for 10 million alternating bending cycles and horizontal travel distances up to 100 meter
- Highly resistant to oil and chemicals
- Ozone, UV and weather-resistant according to EN 50396 and HD 605 S2
- Hydrolysis-resistant to warm and hot water
- Good chemical resistance to ester-based hydraulic fluids
- Flexible down to -40°C

Norm references / Approvals

- Based on VDE 0250 / 0285
- Clean room classification for individual items on request
- Certified resistance to disinfection and cleaning solutions used in food and beverage industry
- For use in power chains: Please comply with assembly guideline Appendix T3

Product Make-up

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

Technical data



Classification

ETIM 5.0 Class-ID: EC000104
ETIM 5.0 Class-Description:
Control cable



Core identification code

Black cores with printed white numbers (VDE 0293-1)



Conductor stranding

Extra-fine wire according to VDE 0295, class 6/IEC 60228 class 6



Minimum bending radius

For flexible use:
7.5 x cable diameter
(at temperatures < 70 °C)
10 x cable diameter
(at a max. temperature of 105 °C)
Fixed installation: 4 x outer diameter



Nominal voltage

U₀/U: 300/500 V



Test voltage

4000 V



Protective conductor

G = with GN-YE protective conductor
X = without protective conductor



Alternating bending cycles

10 mio. cycles



Temperature range

Flexing: -40 °C to +105 °C
Fixed installation: -50 °C to +110 °C
Short-term: up to +120 °C

| Article number | Number of cores and mm² per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|--------------------------|---------------------------------------|---------------------|----------------------|----------------|
| ÖLFLEX® ROBUST FD | | | | |
| 0026501 | 3 G 0.75 | 6.9 | 21.6 | 51 |
| 0026502 | 4 G 0.75 | 7.7 | 28.8 | 69 |
| 0026503 | 5 G 0.75 | 8.6 | 36 | 87 |
| 0026504 | 7 G 0.75 | 10.4 | 50.4 | 127 |
| 0026505 | 12 G 0.75 | 12.2 | 86.4 | 182 |
| 0026506 | 18 G 0.75 | 14.9 | 129.6 | 277 |
| 0026507 | 25 G 0.75 | 18.5 | 180 | 421 |
| 0026509 | 3 G 1.0 | 7.4 | 28.8 | 63 |
| 0026510 | 4 G 1.0 | 8.2 | 38.4 | 82 |
| 0026511 | 5 G 1.0 | 9.2 | 48 | 105 |
| 0026516 | 7 G 1.0 | 11.1 | 67.2 | 157 |
| 0026517 | 12 G 1.0 | 13.3 | 115.2 | 226 |
| 0026518 | 18 G 1.0 | 15.9 | 172.8 | 345 |
| 0026521 | 3 G 1.5 | 8.9 | 43.2 | 90 |

| Article number | Number of cores and mm² per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|----------------|---------------------------------------|---------------------|----------------------|----------------|
| 0026522 | 4 G 1.5 | 9.9 | 57.6 | 118 |
| 0026523 | 5 G 1.5 | 11 | 72 | 149 |
| 0026524 | 7 G 1.5 | 13.4 | 100.8 | 233 |
| 0026525 | 12 G 1.5 | 15.8 | 172.8 | 322 |
| 0026526 | 18 G 1.5 | 18.9 | 259.2 | 494 |
| 0026527 | 25 G 1.5 | 23.5 | 360 | 695 |
| 0026531 | 4 G 2.5 | 11.8 | 96 | 181 |
| 0026532 | 5 G 2.5 | 12.9 | 120 | 228 |
| 0026533 | 7 G 2.5 | 15.7 | 168 | 329 |
| 0026534 | 12 G 2.5 | 18.7 | 288 | 491 |
| 0026541 | 4 G 4 | 13.8 | 153.6 | 261 |
| 0026551 | 4 G 6 | 14.8 | 230.4 | 356 |
| 0026561 | 4 G 10 | 20.1 | 384 | 596 |
| 0026571 | 4 G 16 | 23.8 | 614.4 | 910 |

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150 / 100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging size: coil ≤ 30 kg or ≤ 250 m, otherwise drum

Please specify the preferred type of packaging (e.g. 1 x 500 m drum or 5 x 100 m coils).

Photographs are not to scale and do not represent detailed images of the respective products.

Similar products

- ÖLFLEX® FD 855 P refer to page 135

Accessories

- SILVYN® CHAIN cable protection and guiding systems