

## ÖLFLEX® ROBUST FD C

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

ÖLFLEX® ROBUST FD C - Screened, halogenfree power and control cable for power chain application in harsh environmental conditions

### Info

Extended Line Performance - Long travel lengths or high acceleration

Good weather resistance

Good chemical resistance please see Appendix T1



Suitable for outdoor use



Halogen-free



Cold-resistant



Oil-resistant



Power chain



Interference signals



UV-resistant

### Benefits

Outstanding weather, ozone and UV resistance together with the wide temperature range enable versatile use for indoor and outdoor applications

Last Update (16.12.2022)

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Product Management [www.lappkabel.de](http://www.lappkabel.de)

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02\_03.16

## ÖLFLEX® ROBUST FD C

Resistant to contact with organic oils and the related emulsions as well as a multitude of plant, animal or synthetic-based greases and waxes

Good resistance to ammonia compounds and bio-gases

Good resistance to cold and hot water as well as water-soluble cleaning and cooling agents

Well-suited to steam cleaning

Copper screening complies with EMC requirements and protects against electromagnetic interference

### 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

Assembly lines, production lines, in all kinds of machines

For indoor and outdoor use

### Product features

Ozone, UV and weather-resistant according to EN 50396 and HD 605 S2

Highly resistant to oil and chemicals

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

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

Inner sheath made of TPE

Tinned-copper braiding

Robust outer sheath made of special halogen-free TPE, black (similar RAL 9005)

### Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000104 ETIM 6.0 Class-Description: Control cable
Core identification code:	Black cores with printed white numbers (VDE 0293-334)
Conductor stranding:	Extra-fine wire acc. to VDE 0295, class 6/ IEC 60228 class 6
Minimum bending radius:	Flexing: up from 7.5 x outer diameter (at temperatures < 70 °C) up from 10 x outer diameter (at max. temperature of 105 °C) Fixed installation: 4 x Outer diameter
Nominal voltage:	U0/U: 300/500 V
Test voltage:	4000 V

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## ÖLFLEX® ROBUST FD C

Protective conductor:	G = with GN-YE protective conductor X = without protective conductor
Temperature range:	Flexing: -40 °C to +105 °C Fixed installation: -50 °C to +105 °C
Bending cycles & operation parameters:	See Selection Table A2-1 in the appendix of our online catalogue

### Note

Unless specified otherwise, the shown product values are nominal values at room temperature. 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](http://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 and graphics are not to scale and do not represent detailed images of the respective products.

Prices are net prices without VAT and surcharges. Sale to business customers only.

**ÖLFLEX® ROBUST FDC**

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
0026701	3 G 0.75	9.1	49.6	110
0026702	4 G 0.75	10.1	60.9	137
0026703	5 G 0.75	10.8	72.8	160
0026704	7 G 0.75	12.6	107.2	238
0026705	12 G 0.75	15	151.5	312
0026706	18 G 0.75	17.7	205.5	448
0026707	25 G 0.75	21.7	299.1	657
0026709	3 G 1.0	9.8	61.1	125
0026716	7 G 1.0	13.9	132.3	278
0026717	12 G 1.0	16.1	189.1	370
0026721	3 G 1.5	10.9	79.8	163
0026722	4 G 1.5	12.1	99.2	210
0026723	5 G 1.5	13.6	129.7	264
0026724	7 G 1.5	15.8	175.2	370
0026725	12 G 1.5	18.4	257.1	498
0026726	18 G 1.5	22.1	378.9	749
0026727	25 G 1.5	27.1	555.5	1042
0026731	4 G 2.5	14.4	161.5	307
0026732	5 G 2.5	15.5	188.3	361
0026733	7 G 2.5	18.3	252.6	512
0026734	12 G 2.5	21.9	406.5	730
0026741	4 G 4.0	16.2	227.3	412
0026751	4 G 6.0	17.2	306.7	519
0026761	4 G 10.0	23.3	513.6	853
0026771	4 G 16.0	27.2	809.6	1273

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