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

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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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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
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.

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PRODUCT INFORMATION

Article number	Number of cores and mm² 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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