

ÖLFLEX® ROBUST 210

Proven all-weather control cable – resistant to a wide range of chemical media

ÖLFLEX® ROBUST 210 - Control cable, weather, bio oil, detergent and hot water resistant for use in food & beverage industry and composting plants

Info

Good weather resistance

Good chemical resistance please see Appendix T1

Reduced outer diameter



Suitable for outdoor use



Good chemical resistance



Halogen-free



Cold-resistant



UV-resistant



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 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

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

PN 0456 / 02_03.16

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

Application range

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
Agricultural equipment
For indoor and outdoor use

Product features

Good chemical resistance to ester-based hydraulic fluids
Ozone, UV and weather-resistant according to EN 50396 and HD 605 S2
Flexible down to -40 °C
Low-capacitance design
Number-coded cores

Norm references / Approvals

Based on VDE 0250 / 0285
Certified resistance to disinfection and cleaning solutions used in food and beverage industry
Suitable for use in fresh water down to 10 m depth at max. water temperature of +40 °C according to EN 50565-2

Product Make-up

Fine-wire, bare copper conductor
Core insulation made of modified PP
Cores twisted in layers
Outer sheath made of special TPE
Sheath colour: black

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 with white numbers acc. to VDE 0293-334 |
| Conductor stranding: | Fine wire according to VDE 0295, class 5/IEC 60228 class 5 |
| Minimum bending radius: | Occasional flexing: 15 x outer diameter 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 |
| Temperature range: | Occasional flexing: -40 °C to +80 °C Fixed installation: -50 °C to +80 °C |

Note

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

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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 \leq 30 kg or \leq 250 m, otherwise drum

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

Single lengths for sizes: \geq 4G16 max. 600 m; \geq 4G25 max. 300 m; \geq 4G50 max. 250 m

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.

The final resistance of the cable to the effects of chemicals and their compounds can only be assessed in real-life conditions, taking into account the totality of factors affecting the cable. Relevant factors can affect the performance and lifespan of the cable.



ÖLFLEX® ROBUST 210

| Article number | Number of cores and mm ² per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|--------------------|---|---------------------|----------------------|----------------|
| ÖLFLEX® ROBUST 210 | | | | |
| 0021880 | 2 X 0.5 | 4.9 | 10 | 27 |
| 0021881 | 3 G 0.5 | 5.2 | 15 | 33 |
| 0021882 | 3 X 0.5 | 5.2 | 15 | 33 |
| 0021883 | 4 G 0.5 | 5.8 | 19.2 | 41 |
| 0021884 | 4 X 0.5 | 5.8 | 19.2 | 41 |
| 0021885 | 5 G 0.5 | 6.3 | 24 | 49 |
| 0021886 | 5 X 0.5 | 6.3 | 24 | 49 |
| 0021888 | 7 G 0.5 | 6.9 | 33.6 | 64 |
| 0021889 | 7 X 0.5 | 6.9 | 33.6 | 64 |
| 0021890 | 10 G 0.5 | 8.8 | 48 | 92 |
| 0021891 | 12 G 0.5 | 9.1 | 58 | 106 |
| 0021892 | 18 G 0.5 | 10.8 | 86.4 | 151 |
| 0021893 | 25 G 0.5 | 12.7 | 120 | 210 |
| 0021897 | 2 X 0.75 | 5.5 | 14.4 | 35 |
| 0021898 | 3 G 0.75 | 5.8 | 21.6 | 43 |
| 0021899 | 3 X 0.75 | 5.8 | 21.6 | 43 |
| 0021900 | 4 G 0.75 | 6.3 | 28.8 | 49 |
| 0021901 | 4 X 0.75 | 6.3 | 28.8 | 49 |
| 0021902 | 5 G 0.75 | 6.9 | 36 | 66 |
| 0021903 | 5 X 0.75 | 6.9 | 36 | 66 |
| 0021904 | 7 G 0.75 | 7.5 | 50 | 85 |
| 0021905 | 7 X 0.75 | 7.5 | 50 | 85 |
| 0021907 | 12 G 0.75 | 10.1 | 86 | 144 |
| 0021908 | 18 G 0.75 | 12 | 130 | 208 |
| 0021909 | 25 G 0.75 | 14.1 | 180 | 288 |
| 0021910 | 34 G 0.75 | 16.3 | 245 | 386 |
| 0021911 | 41 G 0.75 | 17.8 | 296 | 464 |
| 0021912 | 50 G 0.75 | 19.6 | 360 | 560 |
| 0021913 | 2 X 1.0 | 5.8 | 19.2 | 42 |
| 0021914 | 3 G 1.0 | 6.1 | 28.8 | 49 |
| 0021915 | 3 X 1.0 | 6.1 | 28.8 | 49 |
| 0021916 | 4 G 1.0 | 6.6 | 38.4 | 63 |
| 0021917 | 4 X 1.0 | 6.6 | 38.4 | 63 |

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| Article number | Number of cores and mm ² per conductor | Outer diameter [mm] | Copper index (kg/km) | Weight (kg/km) |
|----------------|---|---------------------|----------------------|----------------|
| 0021918 | 5 G 1.0 | 7.3 | 48 | 78 |
| 0021919 | 5 X 1.0 | 7.3 | 48 | 78 |
| 0021920 | 7 G 1.0 | 8.1 | 67 | 107 |
| 0021921 | 10 G 1.0 | 10.4 | 96 | 154 |
| 0021922 | 12 G 1.0 | 10.7 | 115 | 178 |
| 0021923 | 18 G 1.0 | 12.9 | 173 | 262 |
| 0021924 | 25 G 1.0 | 15 | 240 | 357 |
| 0021925 | 34 G 1.0 | 17.5 | 326 | 484 |
| 0021926 | 41 G 1.0 | 19.2 | 394 | 582 |
| 0021927 | 50 G 1.0 | 21 | 480 | 703 |
| 0021928 | 2 X 1.5 | 6.4 | 29 | 56 |
| 0021929 | 3 G 1.5 | 6.8 | 43 | 72 |
| 0021930 | 3 X 1.5 | 6.8 | 43 | 72 |
| 0021931 | 4 G 1.5 | 7.4 | 58 | 91 |
| 0021932 | 4 X 1.5 | 7.4 | 58 | 91 |
| 0021933 | 5 G 1.5 | 8.3 | 72 | 108 |
| 0021934 | 5 X 1.5 | 8.3 | 72 | 108 |
| 0021936 | 7 G 1.5 | 9 | 101 | 149 |
| 0021937 | 7 X 1.5 | 9 | 101 | 149 |
| 0021938 | 10 G 1.5 | 11.8 | 143 | 215 |
| 0021940 | 12 G 1.5 | 12.2 | 173 | 234 |
| 0021941 | 18 G 1.5 | 14.6 | 259 | 369 |
| 0021942 | 25 G 1.5 | 17.2 | 360 | 510 |
| 0021943 | 34 G 1.5 | 19.8 | 490 | 683 |
| 0021945 | 50 G 1.5 | 24 | 720 | 999 |
| 0021946 | 2 X 2.5 | 7.6 | 48 | 86 |
| 0021947 | 3 G 2.5 | 8.3 | 72 | 115 |
| 0021949 | 4 G 2.5 | 9 | 96 | 131 |
| 0021951 | 5 G 2.5 | 10.1 | 120 | 178 |
| 0021953 | 7 G 2.5 | 11.2 | 168 | 241 |
| 0021954 | 12 G 2.5 | 15.1 | 288 | 405 |
| 0021963 | 3 G 4.0 | 10.1 | 115 | 180 |
| 0021964 | 4 G 4.0 | 11.1 | 157 | 228 |
| 0021965 | 5 G 4.0 | 12.4 | 192 | 280 |

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|----------------|---|---------------------|----------------------|----------------|
| 0021966 | 7 G 4.0 | 13.6 | 269 | 377 |
| 0021967 | 4 G 6.0 | 13.3 | 230 | 332 |
| 0021968 | 5 G 6.0 | 14.8 | 288 | 407 |
| 0021969 | 4 G 10.0 | 16.5 | 384 | 541 |
| 0021970 | 5 G 10.0 | 18.4 | 480 | 620 |
| 0021971 | 4 G 16.0 | 18.8 | 614.4 | 806 |
| 0021972 | 4 G 25.0 | 23.5 | 960 | 1218 |
| 0021973 | 4 G 35.0 | 26.4 | 1344 | 1658 |

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