


| | | |
|-------------------|----------------------------|--|
| U.I. Lapp GmbH | PRODUCT INFORMATION |  |
| | ÖLFLEX® ROBUST 210 | 12.09.2012 |

Proven all-weather control cables – resistant to a wide range of chemical media
 Outstanding weather, ozone and UV resistance together with the wide temperature range enable versatile use for both 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



Info

Excellent weather resistance
 High chemical resistance
 Reduced outer diameter

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
 For indoor and outdoor use

Design

Fine-wire strand made of bare copper wires
 Core insulation made of modified PP
 Cores twisted in layers
 Outer sheath made of special TPE
 Sheath colour: black (RAL 9005)

Product features

Halogen-free materials
 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
 Number-coded cores

Remark

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

Copper price basis: EUR 150/100kg. Refer to 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).

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

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

| | | |
|--------------------|----------------------------|-------|
| Product Management | Document: LAPP_PRO30EN.pdf | 1 / 5 |
|--------------------|----------------------------|-------|

| | | |
|-------------------|----------------------------|--|
| U.I. Lapp GmbH | PRODUCT INFORMATION |  |
| | ÖLFLEX® ROBUST 210 | 12.09.2012 |

Technical Data

| | |
|---------------------------|---|
| Core identification code: | Black with white numbers acc. to VDE 0293 |
| Based on: | VDE 0250/0281 |
| 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: | U ₀ /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 |

| | | |
|--------------------|----------------------------|-------|
| Product Management | Document: LAPP_PRO30EN.pdf | 2 / 5 |
|--------------------|----------------------------|-------|

ÖLFLEX® ROBUST 210

12.09.2012

| Part 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 | 10.0 | 27 |
| 0021881 | 3 G 0,5 | 5,2 | 15.0 | 33 |
| 0021882 | 3 X 0,5 | 5,2 | 15.0 | 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 | 24.0 | 49 |
| 0021886 | 5 X 0,5 | 6,3 | 24.0 | 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 | 48.0 | 92 |
| 0021891 | 12 G 0,5 | 9,1 | 58.0 | 106 |
| 0021892 | 18 G 0,5 | 10,8 | 86.4 | 151 |
| 0021893 | 25 G 0,5 | 12,7 | 120.0 | 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 | 36.0 | 66 |
| 0021903 | 5 X 0,75 | 6,9 | 36.0 | 66 |
| 0021904 | 7 G 0,75 | 7,5 | 50.0 | 85 |
| 0021905 | 7 X 0,75 | 7,5 | 50.0 | 85 |
| 0021907 | 12 G 0,75 | 10,1 | 86.0 | 144 |
| 0021908 | 18 G 0,75 | 12,0 | 130.0 | 208 |
| 0021909 | 25 G 0,75 | 14,1 | 180.0 | 288 |
| 0021910 | 34 G 0,75 | 16,3 | 245.0 | 386 |
| 0021911 | 41 G 0,75 | 17,8 | 296.0 | 464 |
| 0021912 | 50 G 0,75 | 19,6 | 360.0 | 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 |

ÖLFLEX® ROBUST 210

12.09.2012

| Part number | Number of cores and mm ² per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|-------------|---|---------------------|----------------------|----------------|
| 0021916 | 4 G 1,0 | 6,6 | 38.4 | 63 |
| 0021917 | 4 X 1,0 | 6,6 | 38.4 | 63 |
| 0021918 | 5 G 1,0 | 7,3 | 48.0 | 78 |
| 0021919 | 5 X 1,0 | 7,3 | 48.0 | 78 |
| 0021920 | 7 G 1,0 | 8,1 | 67.0 | 107 |
| 0021921 | 10 G 1,0 | 10,4 | 96.0 | 154 |
| 0021922 | 12 G 1,0 | 10,7 | 115.0 | 178 |
| 0021923 | 18 G 1,0 | 12,9 | 173.0 | 262 |
| 0021924 | 25 G 1,0 | 15.0 | 240.0 | 357 |
| 0021925 | 34 G 1,0 | 17,5 | 326.0 | 484 |
| 0021926 | 41 G 1,0 | 19,2 | 394.0 | 582 |
| 0021927 | 50 G 1,0 | 21.0 | 480.0 | 703 |
| 0021928 | 2 X 1,5 | 6,4 | 29.0 | 56 |
| 0021929 | 3 G 1,5 | 6,8 | 43.0 | 72 |
| 0021930 | 3 X 1,5 | 6,8 | 43.0 | 72 |
| 0021931 | 4 G 1,5 | 7,4 | 58.0 | 91 |
| 0021932 | 4 X 1,5 | 7,4 | 58.0 | 91 |
| 0021933 | 5 G 1,5 | 8,3 | 72.0 | 108 |
| 0021934 | 5 X 1,5 | 8,3 | 72.0 | 108 |
| 0021936 | 7 G 1,5 | 9.0 | 101.0 | 149 |
| 0021937 | 7 X 1,5 | 9.0 | 101.0 | 149 |
| 0021938 | 10 G 1,5 | 11,8 | 143.0 | 215 |
| 0021940 | 12 G 1,5 | 12,2 | 173.0 | 234 |
| 0021941 | 18 G 1,5 | 14,6 | 259.0 | 369 |
| 0021942 | 25 G 1,5 | 17,2 | 360.0 | 510 |
| 0021943 | 34 G 1,5 | 19,8 | 490.0 | 683 |
| 0021945 | 50 G 1,5 | 24.0 | 720.0 | 999 |
| 0021946 | 2 X 2,5 | 7,6 | 48.0 | 86 |
| 0021947 | 3 G 2,5 | 8,3 | 72.0 | 115 |
| 0021949 | 4 G 2,5 | 9.0 | 96.0 | 131 |
| 0021951 | 5 G 2,5 | 10,1 | 120.0 | 178 |
| 0021953 | 7 G 2,5 | 11,2 | 168.0 | 241 |

ÖLFLEX® ROBUST 210

12.09.2012

| Part number | Number of cores and mm ² per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|-------------|---|---------------------|----------------------|----------------|
| 0021954 | 12 G 2,5 | 15,1 | 288.0 | 405 |
| 0021963 | 3 G 4 | 10,1 | 115.0 | 180 |
| 0021964 | 4 G 4 | 11,1 | 157.0 | 228 |
| 0021965 | 5 G 4 | 12,4 | 192.0 | 280 |
| 0021966 | 7 G 4 | 13,6 | 269.0 | 377 |
| 0021967 | 4 G 6 | 13,3 | 230.0 | 332 |
| 0021968 | 5 G 6 | 14,8 | 288.0 | 407 |
| 0021969 | 4 G 10 | 16,5 | 384.0 | 541 |
| 0021970 | 5 G 10 | 18,4 | 480.0 | 620 |
| 0021971 | 4 G 16 | 18,8 | 614.4 | 806 |
| 0021972 | 4 G 25 | 23,5 | 960.0 | 1218 |
| 0021973 | 4 G 35 | 26,4 | 1344.0 | 1658 |