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| U.I. Lapp GmbH | PRODUCT INFORMATION |  |
| | ÖLFLEX® PETRO FD 865 CP | 07.11.2014 |

Screened, TPE-insulated, numbered, TPE inner and special polymer outer sheath
 Suitable for long horizontal drag chain travel distances
 Reduced outer diameters enable space and weight saving installation
 Suitable for contact with oil- and ester-based drilling muds as well as calcium bromide solutions usually used on drilling rigs
 Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media
 Copper braiding screens the cable against electromagnetic interference



Halogen-free



Mechanical resistance



Oil-resistant



Power chain



Interference signals



UV-resistant

Info

Resistant to oil and drilling fluids acc. to NEK TS 606:2009 (Oil & Mud)
 Extended Line for heavy duty in power chain applications


Application range

Permanently moved power chains or machine parts in harsh environment
 Onshore and offshore applications
 In wet areas within machinery and production or assembly lines

Product Make-up

Extra-fine wire strand made of bare copper
 Core insulation: TPE
 Cores twisted in short lay lengths
 Non-woven wrapping
 Inner sheath made of TPE
 Tinned copper screen braiding
 Outer sheath made of robust special polymer, colour black

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Norm references / Approvals

Based on VDE 0250 / 0285

Resistant against oil and drilling fluids according NEK TS 606:2009 and IEC 61892-4

Salt water-resistant according to UL 1309

For use in power chains: Please comply with the assembly guidelines listed in Appendix T3

Product features

Good notch and abrasion resistance

Good weather, ozone, UV and oil resistance

Halogen-free and flame-retardant

(IEC 60332-1-2)

Resistant to hydrolysis and microbes

Designed for 10 million alternating bending cycles and horizontal travel distances up to 100 meter

Remark

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request. Copper price basis: EUR 150/100 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.

Technical Data

| | |
|---------------------------|---|
| Core identification code: | Black with white numbers acc. to VDE 0293-1 |
| Classification: | ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable |
| Conductor stranding: | Extra-fine wire acc. to VDE 0295, class 6/ IEC 60228 class 6 |
| Minimum bending radius: | For flexible use: 7.5 x outer diameter Fixed installation: 4 x outer diameter |
| Nominal voltage: | U ₀ /U: 300/500 V |
| Test voltage: | 3000 V |
| Protective conductor: | G = with GN-YE protective conductor X = without protective conductor |
| Temperature range: | Flexing: -50 °C to +80 °C Fixed installation: -60 °C to +90 °C |

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| Part number | Number of cores and mm ² per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|-------------------------|---|---------------------|----------------------|----------------|
| ÖLFLEX® PETRO FD 865 CP | | | | |
| 0023300 | 2 X 0,5 | 6.7 | 32.0 | 67 |
| 0023301 | 3 G 0,5 | 7.1 | 40.0 | 79 |
| 0023302 | 4 G 0,5 | 7.6 | 47.0 | 84 |
| 0023303 | 5 G 0,5 | 8.2 | 53.0 | 107 |
| 0023304 | 7 G 0,5 | 9.5 | 67.0 | 132 |
| 0023305 | 12 G 0,5 | 10.9 | 97.0 | 190 |
| 0023306 | 18 G 0,5 | 12.9 | 131.0 | 245 |
| 0023307 | 20 G 0,5 | 13.5 | 156.0 | 281 |
| 0023308 | 25 G 0,5 | 15.6 | 190.0 | 367 |
| 0023309 | 30 G 0,5 | 15.8 | 222.0 | 408 |
| 0023310 | 36 G 0,5 | 16.9 | 251.0 | 459 |
| 0023311 | 2 X 0,75 | 7.2 | 40.0 | 79 |
| 0023312 | 3 G 0,75 | 7.6 | 47.0 | 96 |
| 0023313 | 4 G 0,75 | 8.3 | 58.0 | 112 |
| 0023314 | 5 G 0,75 | 8.9 | 65.0 | 126 |
| 0023315 | 7 G 0,75 | 10.6 | 85.0 | 165 |
| 0023316 | 12 G 0,75 | 12.1 | 127.0 | 231 |
| 0023317 | 18 G 0,75 | 14.6 | 198.0 | 330 |
| 0023318 | 20 G 0,75 | 15.5 | 213.0 | 354 |
| 0023319 | 25 G 0,75 | 17.7 | 259.0 | 459 |
| 0023320 | 30 G 0,75 | 17.7 | 296.0 | 480 |
| 0023321 | 36 G 0,75 | 19.5 | 348.0 | 605 |
| 0023322 | 2 X 1,0 | 7.6 | 45.0 | 93 |
| 0023323 | 3 G 1,0 | 8.1 | 55.0 | 109 |
| 0023324 | 4 G 1,0 | 8.8 | 68.0 | 126 |
| 0023325 | 5 G 1,0 | 9.6 | 81.0 | 147 |
| 0023326 | 7 G 1,0 | 11.3 | 106.0 | 196 |
| 0023327 | 12 G 1,0 | 13.2 | 175.0 | 292 |
| 0023328 | 18 G 1,0 | 15.9 | 242.0 | 418 |
| 0023329 | 20 G 1,0 | 16.6 | 269.0 | 427 |
| 0023330 | 25 G 1,0 | 19.2 | 329.0 | 575 |
| 0023331 | 30 G 1,0 | 19.6 | 377.0 | 635 |
| 0023332 | 36 G 1,0 | 21.2 | 467.0 | 758 |

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| Part number | Number of cores and mm ² per conductor | Outer diameter (mm) | Copper index (kg/km) | Weight (kg/km) |
|-------------|---|---------------------|----------------------|----------------|
| 0023333 | 2 X 1,5 | 8.3 | 58.0 | 115 |
| 0023334 | 3 G 1,5 | 8.9 | 76.0 | 139 |
| 0023335 | 4 G 1,5 | 9.8 | 91.0 | 156 |
| 0023336 | 5 G 1,5 | 10.8 | 111.0 | 198 |
| 0023337 | 7 G 1,5 | 12.5 | 145.0 | 254 |
| 0023338 | 12 G 1,5 | 14.9 | 242.0 | 416 |
| 0023339 | 18 G 1,5 | 17.4 | 346.0 | 564 |
| 0023340 | 20 G 1,5 | 18.3 | 377.0 | 562 |
| 0023341 | 25 G 1,5 | 21.4 | 486.0 | 811 |
| 0023342 | 30 G 1,5 | 21.4 | 821.0 | 821 |
| 0023343 | 36 G 1,5 | 23.4 | 655.0 | 1066 |
| 0023344 | 2 X 2,5 | 9.8 | 73.0 | 129 |
| 0023345 | 3 G 2,5 | 10.7 | 110.0 | 194 |
| 0023346 | 4 G 2,5 | 11.7 | 136.0 | 234 |
| 0023347 | 5 G 2,5 | 12.8 | 180.0 | 293 |
| 0023348 | 7 G 2,5 | 15.6 | 246.0 | 418 |
| 0023349 | 12 G 2,5 | 18.0 | 377.0 | 629 |
| 0023350 | 18 G 2,5 | 21.5 | 569.0 | 912 |
| 0023351 | 20 G 2,5 | 22.7 | 582.0 | 850 |
| 0023352 | 25 G 2,5 | 26.5 | 765.0 | 1266 |
| 0023353 | 4 G 4 | 13.9 | 205.0 | 311 |
| 0023354 | 5 G 4 | 15.4 | 250.0 | 381 |
| 0023355 | 4 G 6 | 16.2 | 289.0 | 423 |
| 0023356 | 5 G 6 | 17.8 | 354.0 | 512 |
| 0023357 | 4 G 10 | 20.4 | 475.0 | 672 |
| 0023358 | 5 G 10 | 22.3 | 582.0 | 814 |