

Oil and drilling fluid (mud) resistant control cables for highly flexible outdoor applications

### Product Description

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



### Application range

- Permanently moved power chains or machine parts in harsh environment
- Onshore and offshore applications such as drilling rigs and drillships
- In wet areas within machinery and production or assembly lines

### Benefits

- 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

### Design

- 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



## Approvals

- Resistant against oil and drilling fluids according to 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

## Technical Data

### Core identification code

Black with white numbers acc. to VDE 0293

### Based on

VDE 0250/0281/0282

### Specific insulation resistance

> 20 GOhm x cm

### 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

U0/U: 300/500 V

### Test voltage

3000 V

### Protective conductor

G = with GN-YE protective conductor

X = without protective conductor

### Temperature range

Flexing: -40°C to +80°C

Fixed installation: -50°C to +90°C

## Article List

Part number	Number of cores and mm <sup>2</sup> 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
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

**Footnote:**

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