

## ÖLFLEX® PETRO FD 865 CP

Halogen-free, highly flexible and screened control cable with abrasion and MUD-resistant PUR sheath - certified

ÖLFLEX® PETRO FD 865 CP - Screened, halogenfree power and control cable for power chain application, oil- and mud resistant according to NEK 606

### Info

Extended Line Performance - Long travel lengths or high acceleration

Resistant to oil and drilling fluids  
according to NEK TS 606:2016 (Oil & Mud)

EMC compliant copper screening



Suitable for outdoor use



Halogen-free



Cold-resistant



Mechanical resistance



Oil-resistant



Power chain



Interference signals



UV-resistant

Last Update (09.12.2022)

©2022 Lapp Group - Technical changes reserved

Product Management [www.lappkabel.de](http://www.lappkabel.de)

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

PN 0456 / 02\_03.16

## ÖLFLEX® PETRO FD 865 CP

### Benefits

Especially suitable for contact with oil- and ester-based drilling muds as well as calcium bromide solutions  
Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media  
Suitable for long horizontal drag chain travel distances  
Additional robustness thanks to inner sheath  
Wide temperature range for applications in harsh climatic environments  
Copper braiding screens the cable against electromagnetic interference

### 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  
For use in assembling & pick-and-place machinery  
For indoor and outdoor use

### Product features

Salt water-resistant according to UL 1309  
Halogen-free and flame-retardant  
(IEC 60332-1-2)  
Good weather, ozone, UV and oil resistance  
Good notch and abrasion resistance  
Flexible at low temperatures  
EMC-compliant

### Norm references / Approvals

DNV GL approved  
Resistant to oil and drilling fluids according to NEK TS 606:2016 and IEC 61892-4  
For use in power chains: Please comply with assembly guideline Appendix T3

### 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

### 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:	Extra-fine wire acc. to VDE 0295, class 6/ IEC 60228 class 6
Minimum bending radius:	Flexing: up from 7.5 x outer diameter Fixed installation: 4 x outer diameter
Nominal voltage:	U0/U: 300/500 V
Test voltage:	3000 V

Last Update (09.12.2022)

©2022 Lapp Group - Technical changes reserved

Product Management [www.lappkabel.de](http://www.lappkabel.de)

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

PN 0456 / 02\_03.16

## ÖLFLEX® PETRO FD 865 CP

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 +80°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](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 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.

**ÖLFLEX® PETRO FD 865 CP**

Article 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	67
0023301	3 G 0.5	7.1	40	79
0023302	4 G 0.5	7.6	47	84
0023303	5 G 0.5	8.2	53	107
0023304	7 G 0.5	9.5	67	132
0023305	12 G 0.5	10.9	97	190
0023306	18 G 0.5	12.9	131	245
0023307	20 G 0.5	13.5	156	281
0023308	25 G 0.5	15.6	190	367
0023309	30 G 0.5	15.8	222	408
0023310	36 G 0.5	16.9	251	459
0023311	2 X 0.75	7.2	40	79
0023312	3 G 0.75	7.6	47	96
0023313	4 G 0.75	8.3	58	112
0023314	5 G 0.75	8.9	65	126
0023315	7 G 0.75	10.6	85	165
0023316	12 G 0.75	12.1	127	231
0023317	18 G 0.75	14.6	198	330
0023318	20 G 0.75	15.5	213	354
0023319	25 G 0.75	17.7	259	459
0023320	30 G 0.75	17.7	296	480
0023321	36 G 0.75	19.5	348	605
0023322	2 X 1.0	7.6	45	93
0023323	3 G 1.0	8.1	55	109
0023324	4 G 1.0	8.8	68	126
0023325	5 G 1.0	9.6	81	147
0023326	7 G 1.0	11.3	106	196
0023327	12 G 1.0	13.2	175	292
0023328	18 G 1.0	15.9	242	418
0023329	20 G 1.0	16.6	269	427
0023330	25 G 1.0	19.2	329	575
0023331	30 G 1.0	19.6	377	635
0023332	36 G 1.0	21.2	467	758

Last Update (09.12.2022)

©2022 Lapp Group - Technical changes reserved

 Product Management [www.lappkabel.de](http://www.lappkabel.de)

 You can find the current technical data in the corresponding data sheet:  
 PN 0456 / 02\_03\_16

**ÖLFLEX® PETRO FD 865 CP**

Article number	Number of cores and mm <sup>2</sup> per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
0023333	2 X 1.5	8.3	58	115
0023334	3 G 1.5	8.9	76	139
0023335	4 G 1.5	9.8	91	156
0023336	5 G 1.5	10.8	111	198
0023337	7 G 1.5	12.5	145	254
0023338	12 G 1.5	14.9	242	416
0023339	18 G 1.5	17.4	346	564
0023340	20 G 1.5	18.3	377	562
0023341	25 G 1.5	21.4	486	811
0023342	30 G 1.5	21.4	568	821
0023343	36 G 1.5	23.4	655	1066
0023344	2 X 2.5	9.8	73	129
0023345	3 G 2.5	10.7	110	194
0023346	4 G 2.5	11.7	136	234
0023347	5 G 2.5	12.8	180	293
0023348	7 G 2.5	15.6	246	418
0023349	12 G 2.5	18	377	629
0023350	18 G 2.5	21.5	569	912
0023351	20 G 2.5	22.7	582	850
0023352	25 G 2.5	26.5	765	1266
0023353	4 G 4.0	13.9	205	311
0023354	5 G 4.0	15.4	250	381
0023355	4 G 6.0	16.2	289	423
0023356	5 G 6.0	17.8	354	512
0023357	4 G 10.0	20.4	475	672
0023358	5 G 10.0	22.3	582	814

Last Update (09.12.2022)

©2022 Lapp Group - Technical changes reserved

 Product Management [www.lappkabel.de](http://www.lappkabel.de)

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

PN 0456 / 02\_03\_16