



ÖLFLEX® PETRO C HFFR

Chemically and mechanically robust cables for harsh environmental conditions - 0.6/1 kV

Info

- Oil and mud-resistant according to IEC 61892-4, Annex D
- Highly flame retardant
- UL/cUL approved for North America



Benefits

- Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media
- Reduced flame spreading increase the protection against damage to persons and property in the event of a fire
- The copper braiding serves as an electromagnetic screen and can also be used as armouring (Braid Armour)
- Can be used in many applications from different industries, as it has remarkable mechanical, thermal and chemical properties

Application range

- Onshore and offshore applications
- For electrical connection of drilling units, pumping stations, compressors or generators in harsh environmental conditions

Product features

- Oil-resistant acc. to NEK TS 606:2009
- Oil and mud-resistant according to IEC 61892-4, Annex D
- Fire behaviour:
 - Halogen-free (VDE 0472-815)
 - Flame-retardant (IEC 60332-1-2)
 - No flame propagation (IEC 60332-3-22 Cat. A)
- UV-resistant according to ISO 4892-2
- Ozone-resistant according to EN 50396
- Salt water-resistant according to UL 1309

Norm references / Approvals

- Single-core versions:
 - USA: UL AWM Style 10587
 - Canada: cUL AWM II A/B
- Multi-core versions:
 - USA: UL AWM Style 20234
 - Canada: cUL AWM II A/B

Product make-up

- Fine-wire, tinned-copper conductor
- Core insulation: polyolefin compound
- Cores twisted in layers
- Inner sheath: halogen-free compound
- Tinned copper screen braiding
- Outer sheath made of robust special polymer, colour black

Technical data

- Classification**
ETIM 5.0 Class-ID: EC000057
ETIM 5.0 Class-Description: Low voltage power cable
- Core identification code**
Colours according to VDE 0293-308, refer to Appendix T9
From 6 cores: black with white numbers
- Fire test**
Flame-retardant acc. to IEC 60332-1-2, UL VW-1, Cable Flame Test, CSA FT 1
No flame-propagation according to IEC 60332-3-22 category A
- Conductor stranding**
Fine wire acc. to VDE 0295, class 5 / IEC 60228 class 5 from 0.5 mm²
- Minimum bending radius**
Occasional flexing: 20 x outer diameter
Fixed installation: 6 x outer diameter
- Nominal voltage**
IEC U₀/U: 600/1000 V
Up to 1.0mm² 300/500 V
- Test voltage**
4000 V
- Temperature range**
Occasional flexing: -40°C to +90°C
According to UL/AWM: -40°C to +80°C
Fixed installation: -50°C to +90°C
according to UL/AWM: -50°C to +80°C

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® PETRO C HFFR black - single core				
0023249	1 X 70	19.3	737.0	948
0023250	1 X 95	21.6	1,002.0	1155
0023251	1 X 120	24.5	1,254.0	1463
0023248	1 X 150	26.1	1,553.0	1767
0023233	1 X 185	28.4	1,912.0	2349
0023234	1 X 240	32.6	2,475.0	2869
0023279	1 X 300	34.7	3,075.0	3817
ÖLFLEX® PETRO C HFFR black - multi-core				
0023275	3 G 0.5	10.1	36.0	140
0023274	2 X 1.0	10.5	41.0	149
0023252	2 X 1.5	11.5	57.0	183
0023253	3 G 1.5	12.0	72.0	212
0023254	4 G 1.5	12.8	90.0	249
0023255	5 G 1.5	14.0	115.0	307
0023256	7 G 1.5	15.9	151.0	401
0023239	12 G 1.5	18.8	238.0	573
0023257	18 G 1.5	22.3	350.0	846
0023240	25 G 1.5	26.6	490.0	1183
0023278	3 G 2.5	13.5	105.0	276
0023242	4 G 2.5	14.6	147.0	347
0023244	5 G 2.5	15.7	171.0	401
0023245	7 G 2.5	18.3	233.0	547
0023258	12 G 2.5	22.3	378.0	840

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
0023260	4 G 4	16.2	212.0	457
0023266	5 G 4	17.6	250.0	540
0023261	4 G 6	17.7	288.0	558
0023268	5 G 6	19.9	367.0	710
0023280	4 G 10	22.3	474.0	882
0023272	5 G 10	24.3	582.0	1069
0023281	4 G 16	24.9	716.0	1208
0023269	5 G 16	27.6	881.0	1483
0023267	4 G 25	30.2	1,096.0	1785
0023270	5 G 25	33.4	1,371.0	2206
0023262	4 G 35	33.6	1,515.0	2314
0023282	5 G 35	37.1	1,875.0	2847
0023246	4 G 50	39.3	2,140.0	3264
0023271	5 G 50	43.4	2,620.0	4002
ÖLFLEX® PETRO C HFFR blue - multi-core				
0023276	3 G 0.5	10.1	36.0	140
0023273	2 X 1.0	10.5	41.0	147
0023263	2 X 1.5	11.5	57.0	183
0023283	3 G 1.5	12.0	72.0	212
0023237	4 G 1.5	12.8	90.0	249
0023284	5 G 1.5	14.0	115.0	307
0023238	7 G 1.5	15.9	151.0	401
0023264	12 G 1.5	18.8	238.0	573
0023265	25 G 1.5	26.6	490.0	1183

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 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.