



ÖLFLEX® PETRO C HFFR 0,6/1 kV

Chemically and mechanically robust cable for harsh environmental conditions - UL/cUL and GL/DNV certified

Info

- Resistant to oil and drilling fluids according to NEK TS 606:2016 (Oil & Mud)
- Highly flame retardant
- UL/cUL certified for North America



Technical data

Classification ETIM 5/6
ETIM 5.0/6.0 Class-ID: EC000104
ETIM 5.0/6.0 Class-Description: Control 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
UL/CSA: 1000 V

Test voltage
4000 V

Temperature range
Occasional flexing: -40°C to +90°C (UL/CSA: +80°C)
Fixed installation: -50°C to +90°C (UL/CSA: +80°C)

- 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
 - Wide temperature range for applications in harsh climatic environments
 - Copper braiding screens the cable against electromagnetic interference
 - Can be used in many applications from different industries due to its 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
 - Particularly in wet areas of machine tools and transfer lines
 - Chemical and petrochemical industry
 - For indoor and outdoor use

- Product features**
- Resistant to oil and drilling fluids according to NEK TS 606:2016 and IEC 61892-4
 - Fire behaviour:
 - Halogen-free according to VDE 0472-815
 - Flame-retardant according to IEC 60332-1-2
 - No flame propagation according to 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 11624
 - Canada: cUL AWM II A/B
 - Multi-core versions:
 - USA: UL AWM Style 20234
 - Canada: cUL AWM II A/B
 - GL/DNV certified characteristics

- 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

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	948
0023250	1 X 95	21.6	1002	1155
0023251	1 X 120	24.5	1254	1463
0023248	1 X 150	26.1	1553	1767
0023233	1 X 185	28.4	1912	2349
0023234	1 X 240	32.6	2475	2869
0023279	1 X 300	34.7	3075	3817
ÖLFLEX® PETRO C HFFR black - multi-core				
0023252	2 X 1.5	11.5	57	183
0023253	3 G 1.5	12.0	72	212
0023254	4 G 1.5	12.8	90	249
0023255	5 G 1.5	14.0	115	307
0023256	7 G 1.5	15.9	151	401
0023239	12 G 1.5	18.8	238	573
0023257	18 G 1.5	22.3	350	846
0023240	25 G 1.5	26.6	490	1183
0023278	3 G 2.5	13.5	105	276
0023242	4 G 2.5	14.6	147	347
0023244	5 G 2.5	15.7	171	401
0023245	7 G 2.5	18.3	233	547
0023258	12 G 2.5	22.3	378	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	457
0023266	5 G 4	17.6	250	540
0023261	4 G 6	17.7	288	558
0023268	5 G 6	19.9	367	710
0023280	4 G 10	22.3	474	882
0023272	5 G 10	24.3	582	1069
0023281	4 G 16	24.9	716	1208
0023269	5 G 16	27.6	881	1483
0023267	4 G 25	30.2	1096	1785
0023270	5 G 25	33.4	1371	2206
0023262	4 G 35	33.6	1515	2314
0023282	5 G 35	37.1	1875	2847
0023246	4 G 50	39.3	2140	3264
0023271	5 G 50	43.4	2620	4002
ÖLFLEX® PETRO C HFFR blue - multi-core				
0023263	2 X 1.5	11.5	57	183
0023283	3 G 1.5	12.0	72	212
0023237	4 G 1.5	12.8	90	249
0023284	5 G 1.5	14.0	115	307
0023238	7 G 1.5	15.9	151	401
0023264	12 G 1.5	18.8	238	573
0023265	25 G 1.5	26.6	490	1183

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.
Copper price basis: EUR 150/100 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 and graphics are not to scale and do not represent detailed images of the respective products.