

U.I. Lapp GmbH	PRODUCT INFORMATION	
	ÖLFLEX® PETRO C HFFR	12.09.2012

Chemically and mechanically robust cables for harsh environmental conditions - 0.6/1 kV
Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media
Reduced formation of toxic gases and fire spreading in the event of fire increase the protection against damage to persons and property
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



Info

Oil and mud-resistant according to IEC 61892-4, Annex D
Improved characteristics in the event of a fire: Halogen-free - reduced toxic gases Flame-retardant - no flame propagation
UL/cUL approved for North America

Application range

Onshore and offshore applications such as drilling rigs and drillships
For electrical connection of drilling units, pumping stations, compressors, generators, emergency power supplies and emergency lighting in harsh environmental conditions

Design

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

Approvals (Norm references)

Oil-resistant according 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 fire 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

Product features

Cable outer sheath material complies with the requirements for drilling fluids as per IEC 61892-4, Annex D
Halogen-free and highly flame-retardant
Excellent UV and abrasion-resistance
Depending on the quantity, customised designs are also possible upon request

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Remark

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100kg. 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

Packaging size: coil \leq 30 kg or \leq 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:	Colours according to VDE 0293-308, refer to Appendix T9 From 6 cores: black with white numbers
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
Fire test:	Flame-retardant according 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 according to VDE 0295, class 5/ IEC 60228 class 5 from 0.5 mm ²
Minimum bending radius:	Occasional flexing: 20 x outer diameter Fixed installation: 6 x outer diameter
Nominal voltage:	IEC U ₀ /U: 600/1000V Up to 1.0mm ² 300/500 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

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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 C HFFR black - single core				
0023249	1 X 70	19,3	737.0	948
0023250	1 X 95	21,6	1002.0	1155
0023251	1 X 120	24,5	1254.0	1463
0023248	1 X 150	26,1	1553.0	1767
0023233	1 X 185	28,4	1912.0	2349
0023234	1 X 240	32,6	2475.0	2869
0023279	1 X 300	34,7	3075.0	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
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

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Part number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
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	1096.0	1785
0023270	5 G 25	33,4	1371.0	2206
0023262	4 G 35	33,6	1515.0	2314
0023282	5 G 35	37,1	1875.0	2847
0023246	4 G 50	39,3	2140.0	3264
0023271	5 G 50	43,4	2620.0	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