

Chemical and mechanical resistant cables for harsh environmental conditions - 0,6/1 kV

Product Description

Reduced formation of toxic gases and fire spreading in the event of fire increase the protection against damage to persons and property; Also suitable for moved applications due to especial cable design; The copper braiding serves as electromagnetic screening and could also normatively used as armouring (Braid Armour); Due to the mechanical, thermal and physical properties the product is useful for many industries and branches



Application range

- For on- and offshore applications as for instance stationary or mobile drilling rigs and marine vessels
- For electrical connection of drilling units, pumping stations, compressors, generators or also emergency power supply respectively emergency lighting in harsh environmental conditions

Benefits

- Reduced formation of toxic gases and fire spreading in the event of fire increase the protection against damage to persons and property
- Also suitable for moved applications due to especial cable design
- The copper braiding serves as electromagnetic screening and could also normatively used as armouring (Braid

Armour)

- Due to the mechanical, thermal and physical properties the product is useful for many industries and branches

Design

- Fine strands of tinned copper wires
- Core insulation of LSOH polyolefin polymer
- Cores twisted in layers
- Inner sheath of halogen free compound
- Tinned copper braiding
- Outer sheath of robust special polymer

Approvals (Norm references)

- Oil resistant according NEK 606:2004 Oil and drilling fluid (mud) resistant according IEC 61892-4, Annex D
- Fire behaviour: - Halogen free according VDE 0472-815 - Flame retardant according IEC 60332-1-2 - No flame propagation according IEC 60332-3-22 Cat. A
- UV-resistant according ISO 4892-2
- Ozone resistant according EN 50396
- Salt water resistant according UL 1309

Product features

- Cable sheath material complies with the requirements for drilling fluids as per IEC 61892-4, Annex D
- Halogen free and highly flame retardant
- Excellent moisture, UV- and mechanical abrasion resistance
- Considering economic minimum quantities also customized designs are possible



Technical Data

Core identification code

Colour coded according to VDE 0293-308, see Appendix T9

Starting at 6 cores: Black with white numbers

Approvals

Single core versions: USA: UL AWM Style 10587

Canada: cUL AWM II A/B

Multicore versions: USA: UL AWM Style 20234

Canada: cUL AWM II A/B

Fire test

Flame retardant according IEC 60332-1-2, UL VW-1, Cable Flame Test, CSA FT 1

No flame propagation according IEC 60332-3-22

Category A

Conductor stranding

Fine wire according to VDE 0295, Class 5 / IEC

60228 Cl. 5 from 0.5 mm²

Minimum bending radius

Occasional flexing: 20 x cable diameter

Fixed installed: 6 x outer diameter

Rated voltage

IEC: U0/U 600/1000 V / UL/cUL: 1000 V

Test voltage

4000 V

Range of temperature

Occasional flexing: -40 °C up to +90 °C according

UL/AWM: -40 °C up to +80 °C

Fixed installation: -50 °C up to +90 °C according UL/AWM:

-50 °C up to +80 °C

Article List

Part number	Number of cores and mm ² per conductor	Outer diameter in mm	Copper index kg/km	Weight kg/km
ÖLFLEX® PETRO C HFFR colour 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 colour black - multicore				
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
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 colour blue - multicore				
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

Footnote:

All product related values as shown are nominal values unless specified differently. Further values, e.g. tolerances we submit on request - if available and released for publication.

Copper price basis: EUR 150 / 100 kg; For utilization and definition of 'Metal price basis' and 'Metal index' see Appendix T17

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum



Please specify the desired packaging size (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.