

XTREM OFFSHORE BFOU P5/P12

Fire resistant offshore power 0,6/1kV

IEC 60092-353 / NEK TS 606



DESIGN

1. Conductor

Class 5 tinned copper, based on IEC 60228.

2/3 Insulation

Mica tape + Halogen Free Ethylene propylene, type EPR according to IEC 60092-351.

The standard identification is the following:

- 1 conductor natural
- 2 conductors blue + brown
- 3 conductors brown + black + grey
- 4 conductors brown + black + grey + blue
- 5 or more conductors white numbered.

4. Bedding

Halogen Free compound.

5. Braid / Armour

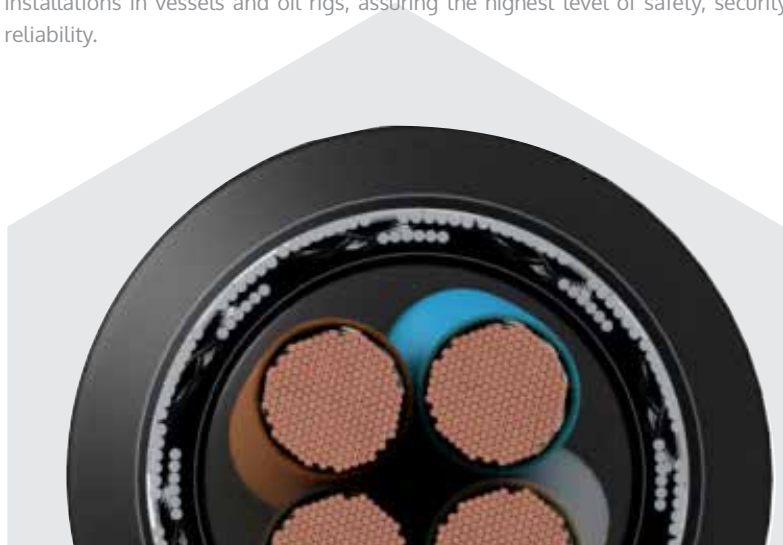
Tinned copper wire braid.

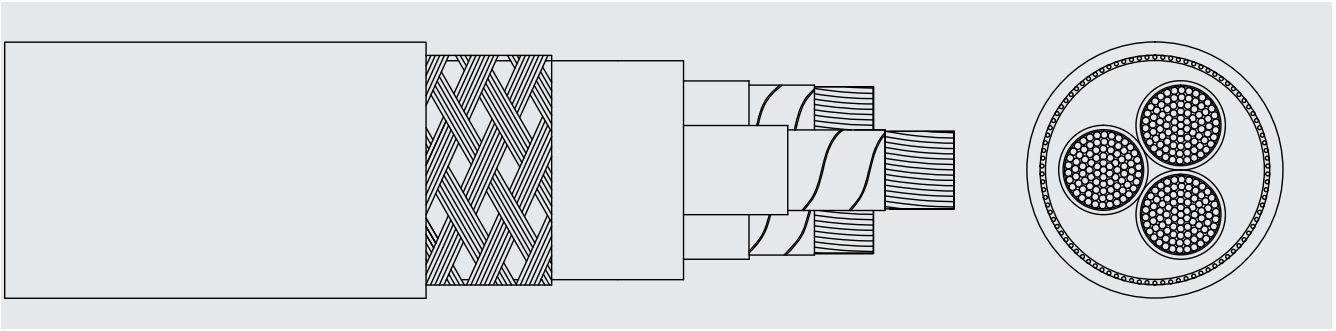
6. Outer sheath

Mud resistant thermosetting compound, black colour, low smoke and halogen free, type SHF MUD.

APPLICATIONS

Fire resistant offshore power 0,6/1kV cables. These fire resistant cables are specially designed to transmit electric power in the presence of fire, assuring electric supply to emergency circuits, like signalling lights, smoke extractors, acoustic alarms, water pumps, etc. In case of fire, they do not emit toxic or corrosive gases, thereby protecting public health and avoiding any possible damage to electronic equipment. They are also heavy duty, mud resistant cables for Offshore applications. Halogen free, flame and fire non propagator. Excellent resistance to oils, abrasion, petrochemical fluids, moisture and salt water. Based on IEC 60092-353 and NEK TS 606. Suitable for fixed installations in vessels and oil rigs, assuring the highest level of safety, security and reliability.





CHARACTERISTICS



Electrical performance

LOW VOLTAGE 0,6/1 kV



Standards

IEC 60092-353 / NEK TS 606



Approvals

DNV-GL
ABS
CE
ROHS



Thermal performance

Maximum service temperature: 90°C
Maximum short-circuit temperature: 250°C (maximum 5s)
Minimum service temperature: fixed -40°C mobile -25°C



Fire performance

Flame non-propagation based on UNE-EN 60332-1 and IEC 60332-1.
Fire non-propagation based on UNE-EN 60332-3-22 and IEC 60332-3-22.
LSZH (Low Smoke Zero Halogen) based on UNE-EN 60754-1 and IEC 60754-1.
Low smoke emission based on UNE-EN 61034 and IEC 61034.: Light transmittance > 60%
Low corrosive gases emission based on UNE-EN 60754-2 and IEC 60754-2.
Fire resistant: according to IEC 60331-21 (90 min. at 750 °C) | according to IEC 60331-2 / EN 50200 for Ø cable < 20 mm (120 min. at 840 °C) | according to IEC 60331-1 / EN 50362 for Ø cable > 20 mm (120 min. at 840 °C)



Mechanical performance

Mechanical stress impact: AG3. High severity
Minimum bending radius: 6 x cable diameter



Chemical performance

Chemical & oil resistance: excellent



Water performance

Water resistance: AD6 waves.



Other

Metre by metre marking



Installation conditions

Open air
Wall attached
On tray
In conduit



Applications

Oil rigs
Marine use
Public places



Mud resistance

According to NEK TS 606



DIMENSIONS

Cross section (mm ²)	Diameter (mm)	Weight (Kg/km)	Open Air 45°C (A)	Voltage drop (V/A-km)	Max conductor resistance at 20°C (Ohm/Km)
1x16	12,7	325	86	2,74	1,2400
1x25	15,0	470	117	1,76	0,7950
1x35	16,3	600	147	1,25	0,5650
1x50	18,7	795	180	0,87	0,3930
1x70	19,7	1.090	233	0,61	0,2770
1x95	22,3	1.380	285	0,46	0,2100
1x120	24,3	1.650	333	0,36	0,1640
1x150	26,0	1.970	386	0,29	0,1320
1x185	28,3	2.450	444	0,24	0,1080
1x240	31,0	3.000	528	0,18	0,0817
1x300	34,9	3.700	612	0,14	0,0654
2x1,5/4	13,4	270	23	30,30	13,7000
2x2,5/4	14,5	305	31,0	18,10	8,2100
2x4/6	15,2	400	43	11,24	5,0900
2x6/6	16,7	450	55	7,48	3,3900
2x10/10	18,8	620	75	4,30	1,9500
2x16/16	21,3	750	100	2,74	1,2400
2x25/16	24,9	1.110	130	1,76	0,7950
3x1,5/4	14,3	310	20	30,30	13,7000
3x2,5/6	15,4	350	28	18,10	8,2100
3x4/6	15,9	430	37	11,24	5,0900
3x6/6	17,6	530	47	7,48	3,3900
3x10/10	19,7	760	65	4,30	1,9500
3x16/16	22,9	1.000	87	2,74	1,2400
3x25/16	26,4	1.440	110	1,76	0,7950
3x35/16	29,2	1.931	137	1,25	0,5650
3x50/25	35,3	2.589	167	0,87	0,3930
3x70/35	37,4	3.300	214	0,61	0,2770
3x95/50	43,1	4.452	259	0,46	0,2100
3x120/60	47,8	5.400	301	0,36	0,1640
3x150/75	51,4	6.700	347	0,29	0,1320
3x185/95	56,7	8.200	397	0,24	0,1080
3x240/120	62,7	9.800	468	0,18	0,0817
4G2,5	16,4	425	25	18,10	8,2100

Cross section (mm ²)	Diameter (mm)	Weight (Kg/km)	Open Air 45°C (A)	Voltage drop (V/A-km)	Max conductor resistance at 20°C (Ohm/Km)
4G4	17,0	460	34	11,24	5,0900
4G6	19,1	650	42	7,48	3,3900
4G10	21,5	960	57	4,30	1,9500
4G16	24,6	1.400	77	2,74	1,2400
4G25	29,0	1.900	100	1,76	0,7950
4G35	32,6	2.250	120	1,25	0,5650
4G50	38,9	3.100	145	0,87	0,3930
4G70	41,2	4.000	180	0,61	0,2770
4G95	48,0	5.050	225	0,46	0,2100
4G120	52,8	6.300	260	0,36	0,1640
4G150	57,3	7.600	300	0,29	0,1320
4G185	62,7	9.000	340	0,24	0,1080
4G240	69,4	10.400	400	0,18	0,0817
4x1,5/4	15,6	385	18	30,30	13,7000
4x2,5/6	16,5	440	25	18,10	8,2100
4x4/6	17,3	480	34	11,24	5,0900
4x6/6	19,2	680	42	7,48	3,3900
4x10/10	21,6	1.000	57	4,30	1,9500
4x16/16	24,6	1.450	77	2,74	1,2400
4x25/16	29,0	1.950	100	1,76	0,7950
4x35/16	32,6	2.500	120	1,25	0,5650
4x50/25	38,9	3.300	145	0,87	0,3930
4x70/35	41,2	4.200	180	0,61	0,2770
4x95/50	48,0	5.300	225	0,46	0,2100
4x120/60	52,8	6.600	260	0,36	0,1640
4x150/75	57,3	8.000	300	0,29	0,1320
4x185/95	62,7	9.500	340	0,24	0,1080
4x240/120	69,4	11.000	400	0,18	0,0817
5G2,5	17,7	520	23	18,10	8,2100
5G4	18,5	690	34	11,24	5,0900
5G6	20,8	980	39	7,48	3,3900
5G10	23,4	1.265	53	4,30	1,9500
5G16	26,9	1.725	72	2,74	1,2400
5G25	31,9	2.300	93	1,76	0,7950
5G35	36,2	3.220	112	1,25	0,5650