

BFOU P5/P12

Fire resistant offshore power 0,6/1kV



DESIGN

Conductor

Flexible conductor tinned copper, based on IEC 60228.

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 conductorswhite numbered.

Bedding

Halogen Free compound.

Braid / Armour

Tinned copper wire braid.

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 signaling 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

Flexible conductor	Minimum bending radius: 6 x cable diameter	LSZH	Mechanical stress impact: AG3. High severity	Oil rigs	In conduit
Minimum service temperature: fixed -40°C mobile -25°C	Flame non-propagation	Low smoke emission: Light transmittance > 60%	Outdoor installation: permanent	Marine use	Wall attached
Maximum service temperature: 90°C	Fire non-propagation	Low corrosive gases emission	Water resistance: AD4 splashes	Public places	On tray
Maximum short-circuit temperature: 250°C (maximum 5 s)	Fire Resistant	Mud resistance NEK TS 606	Chemical & oil resistance: excellent	Open air	

INSTALLATION CONDITIONS

PROPERTIES

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)
1 x 16	12,7	325	86	2,74	1,2400
1 x 25	15,0	470	117	1,76	0,7950
1 x 35	16,3	600	147	1,25	0,5650
1 x 50	18,7	795	180	0,87	0,3930
1 x 70	19,7	1.090	233	0,61	0,2770
1 x 95	22,3	1.380	285	0,46	0,2100
1 x 120	24,3	1.650	333	0,36	0,1640
1 x 150	26,0	1.970	386	0,29	0,1320
1 x 185	28,3	2.450	444	0,24	0,1080
1 x 240	31,0	3.000	528	0,18	0,0817
1 x 300	34,9	3.700	612	0,14	0,0654
2 x 1,5/4	13,4	270	23	30,30	13,7000
2 x 2,5/4	14,5	305	31,0	18,10	8,2100
2 x 4/6	15,2	400	43	11,24	5,0900
2 x 6/6	16,7	450	55	7,48	3,3900
2 x 10/10	18,8	620	75	4,30	1,9500
2 x 16/16	21,3	750	100	2,74	1,2400
2 x 25/16	24,9	1.110	130	1,76	0,7950
3 x 1,5/4	14,3	310	20	30,30	13,7000
3 x 2,5/6	15,4	350	28	18,10	8,2100
3 x 4/6	15,9	430	37	11,24	5,0900
3 x 6/6	17,6	530	47	7,48	3,3900
3 x 10/10	19,7	760	65	4,30	1,9500
3 x 16/16	22,9	1.000	87	2,74	1,2400
3 x 25/16	26,4	1.440	110	1,76	0,7950
3 x 35/16	29,2	1.931	137	1,25	0,5650
3 x 50/25	35,3	2.589	167	0,87	0,3930
3 x 70/35	37,4	3.300	214	0,61	0,2770
3 x 95/50	43,1	4.452	259	0,46	0,2100
3 x 120/60	47,8	5.400	301	0,36	0,1640
3 x 150/75	51,4	6.700	347	0,29	0,1320
3 x 185/95	56,7	8.200	397	0,24	0,1080
3 x 240/120	62,7	9.800	468	0,18	0,0817
4G2,5	16,4	425	25	18,10	8,2100
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
4 x 1,5/4	15,6	385	18	30,30	13,7000
4 x 2,5/6	16,5	440	25	18,10	8,2100
4 x 4/6	17,3	480	34	11,24	5,0900
4 x 6/6	19,2	680	42	7,48	3,3900
4 x 10/10	21,6	1.000	57	4,30	1,9500
4 x 16/16	24,6	1.450	77	2,74	1,2400
4 x 25/16	29,0	1.950	100	1,76	0,7950
4 x 35/16	32,6	2.500	120	1,25	0,5650
4 x 50/25	38,9	3.300	145	0,87	0,3930
4 x 70/35	41,2	4.200	180	0,61	0,2770
4 x 95/50	48,0	5.300	225	0,46	0,2100
4 x 120/60	52,8	6.600	260	0,36	0,1640
4 x 150/75	57,3	8.000	300	0,29	0,1320
4 x 185/95	62,7	9.500	340	0,24	0,1080
4 x 240/120	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

For further technical data please request this cable's technical datasheet.

Top Cable reserves the right to carry out any modification whatsoever without giving previous notice.

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PROPERTIES

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)
5G50	42,8	4.600	135	0,87	0,3930
5G70	45,9	6.440	170	0,61	0,2770
5 x 1,5	16,7	445	17	30,30	13,7000
5 x 2,5	17,9	535	23	18,10	8,2100
7 x 1,5	18,2	505	15	30,30	13,7000
7 x 2,5	19,7	635	20	18,10	8,2100
12 x 1,5	23,2	775	13	30,30	13,7000
12 x 2,5	24,9	935	17	18,10	8,2100
19 x 1,5	27,0	1.755	11	30,30	13,7000
19 x 2,5	28,8	2.095	14	18,10	8,2100
27 x 1,5	32,8	2.685	10	30,30	13,7000
27 x 2,5	35,2	3.120	12,0	18,10	8,2100
37 x 1,5	36,6	4.030	9,0	30,30	13,7000
37 x 2,5	39,7	4.650	10	18,10	8,2100

For further technical data please request this cable's technical datasheet.

