



XTREM OFFSHORE RFOU P1/P8

Offshore power 0,6/ 1kV

IEC 60092-353 / NEK TS 606

DESIGN

1. Conductor

Class 5 tinned copper, based on IEC 60228.

2. Insulation

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

3. Bedding

Halogen Free compound.

4. Braid / Armour

Tinned copper wire braid.

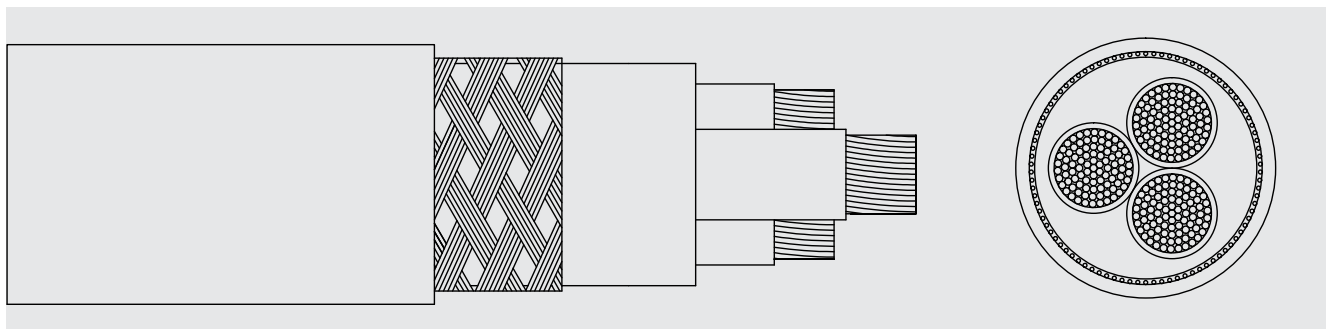
5. Outer sheath

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

APPLICATIONS

Offshore power 0,6/1kV cable. These cables have been specially designed to operate reliably in the harshest oil rig conditions. Heavy duty, mud resistant, power and control 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. Xtrem RFOU cables are suitable for power distribution in fixed installations in vessels and oil rigs.





CHARACTERISTICS



Electrical performance

LOW VOLTAGE 0,6/1kV



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.



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
Public places
Marine use
On tray
In conduit
Wall attached



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)	Conductor resistance at 20°C (Ohm/Km)
1 x 16	13,26	310	86	2,74	1,2400
1 x 25	15,64	450	117	1,76	0,7950
1 x 35	16,83	570	147	1,25	0,5650
1 x 50	18,77	760	180	0,87	0,3930
1 x 70	20,39	1.040	233	0,61	0,2770
1 x 95	22,77	1.310	285	0,46	0,2100
1 x 120	24,30	1.590	333	0,36	0,1640
1 x 150	26,66	1.920	386	0,29	0,1320
1 x 185	28,92	2.340	444	0,24	0,1080
1 x 240	31,95	2.965	528	0,18	0,0817
1 x 300	35,19	3.660	612	0,14	0,0654
2 x 1,5/4	12,18	235	23	30,30	13,7000
2 x 2,5/4	13,70	275	31,0	18,10	8,2100
2 x 4/6	14,78	365	43	11,24	5,0900
2 x 6/6	16,10	4.047	55	7,48	3,3900
2 x 10/10	18,02	585	75	4,30	1,9500
2 x 16/16	20,18	725	100	2,74	1,2400
2 x 25/16	24,06	1.060	130	1,76	0,7950
3 x 1,5/4	12,93	265	20	30,30	13,7000
3 x 2,5/6	14,23	315	28	18,10	8,2100
3 x 4/6	15,68	420	37	11,24	5,0900
3 x 6/6	16,78	495	47	7,48	3,3900
3 x 10/10	19,10	725	65	4,30	1,9500
3 x 16/16	21,45	990	87	2,74	1,2400
3 x 25/16	25,49	1.440	110	1,76	0,7950
3 x 35/16	28,04	1.850	137	1,25	0,5650
3 x 50/25	32,66	2.430	167	0,87	0,3930
3 x 70/35	36,57	3.220	214	0,61	0,2770
3 x 95/50	41,68	4.295	259	0,46	0,2100
3 x 120/60	45,59	5.245	301	0,36	0,1640
3 x 150/75	50,47	6.475	347	0,29	0,1320
3 x 185/95	55,78	7.990	397	0,24	0,1080
3 x 240/120	62,28	9.615	468	0,18	0,0817
4G2,5	15,34	320	25	18,10	8,2100

Cross section (mm ²)	Diameter (mm)	Weight (Kg/km)	Open Air 45°C (A)	Voltage drop (V/A·km)	Conductor resistance at 20°C (Ohm/Km)
4G4	16,77	380	34	11,24	5,0900
4G6	18,20	590	42	7,48	3,3900
4G10	20,67	880	57	4,30	1,9500
4G16	23,28	1.250	77	2,74	1,2400
4G25	27,96	1.720	100	1,76	0,7950
4G35	30,82	2.200	120	1,25	0,5650
4G50	36,37	2.900	145	0,87	0,3930
4G70	40,28	3.700	180	0,61	0,2770
4G95	46,44	4.650	225	0,46	0,2100
4G120	50,34	5.700	260	0,36	0,1640
4G150	56,24	7.000	300	0,29	0,1320
4G185	61,70	8.300	340	0,24	0,1080
4G240	68,99	9.750	400	0,18	0,0817
4 x 1,5/4	14,44	300	18	30,30	13,7000
4 x 2,5/6	15,52	340	25	18,10	8,2100
4 x 4/6	17,05	400	34	11,24	5,0900
4 x 6/6	18,37	610	42	7,48	3,3900
4 x 10/10	20,67	900	57	4,30	1,9500
4 x 16/16	23,28	1.300	77	2,74	1,2400
4 x 25/16	27,96	1.765	100	1,76	0,7950
4 x 35/16	30,82	2.300	120	1,25	0,5650
4 x 50/25	36,37	3.000	145	0,87	0,3930
4 x 70/35	40,28	3.800	180	0,61	0,2770
4 x 95/50	46,44	4.800	225	0,46	0,2100
4 x 120/60	50,34	20.264	260	0,36	0,1640
4 x 150/75	56,24	7.200	300	0,29	0,1320
4 x 185/95	61,70	8.500	340	0,24	0,1080
4 x 240/120	68,99	10.000	400	0,18	0,0817
5G2,5	16,57	450	23	18,10	8,2100
5G4	18,18	600	34	11,24	5,0900
5G6	19,78	850	39	7,48	3,3900
5G10	22,55	1.100	53	4,30	1,9500
5G16	25,47	1.500	72	2,74	1,2400
5G25	30,72	2.000	93	1,76	0,7950
5G35	34,36	2.800	112	1,25	0,5650