CABLE SOLUTIONS WORLDWIDE LTD

XTREM OFFSHORE RFOU MV

Offshore power medium voltage

IEC 60092-354 / NEK TS 606

DESIGN

1. Conductor

Class 5 tinned copper, based on IEC 60228.

2. Semiconducting

Semiconducting halogen free compound.

3. Insulation

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

4. Insulation screen

Semiconducting halogen free compound + tinned copper wire braid.
The standard identification is the following:
1 conductor ..... Natural
3 conductors .....off-white + black + red (other colors available as option)

5. Inner sheath

Halogen Free compound.

6. Braid / Armour

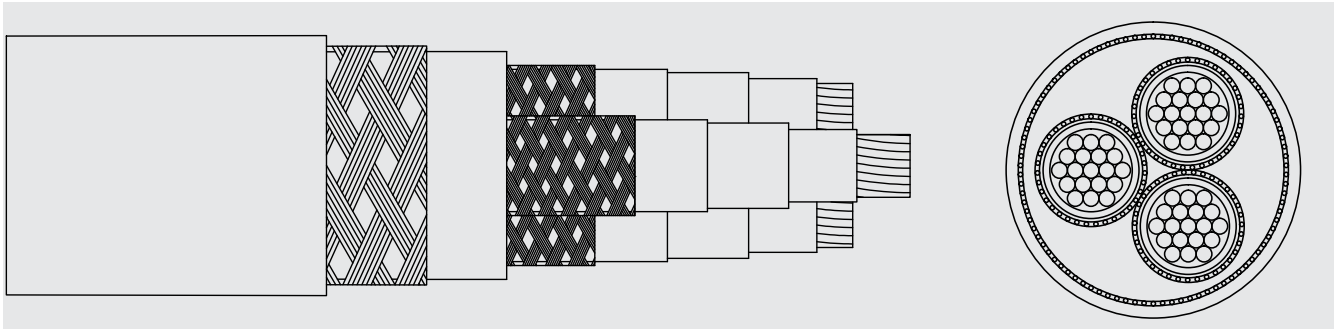
Tinned copper wire braid.

7. Outer sheath

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

APPLICATIONS

Offshore power Medium Voltage cables. Medium voltage 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 60092-354 and NEK TS 606. Suitable for fixed installations in vessels and oil rigs. TS 606. Xtrem RFOU cables are suitable for power distribution in fixed installations in vessels and oil rigs.



CHARACTERISTICS

Electrical performance

MEDIUM VOLTAGE 3,6/6kV, 6/10kV, 8,7/15kV, 12/20kV, 18/30kV

Standards

IEC 60092-354 / NEK TS 606

Thermal performance

Maximum service temperature: 90°C
Maximumshort-circuittemperature:250°C(maximum5s)
Minimumservicetemperature: fixed-40°Cmobile-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: 15 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

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DIMENSIONS RFOU P2/P9 3,6/6 kV

Cross section (mm2)	Overall Diameter	Weight (Kg/ km)	Ampacity Open Air 45°C (A)	Conductor resistance at 20°C (Ohm/Km)
1 x 50	26,5	1.330	196	0,3930
1 x 70	28,5	1.610	242	0,2770
1 x 95	30,6	1.920	293	0,2100
1 x 120	32,0	2.255	339	0,1640
1 x 150	33,7	2.570	389	0,1320
1 x 185	35,8	3.035	444	0,1080
1 x 240	39,5	3.745	522	0,0817
3 x 50/25	51,3	4.540	137	0,3930
3 x 70/35	55,4	5.590	169	0,2770
3 x 95/50	59,3	6.810	205	0,2100
3 x 120/60	63,8	8.150	237	0,1640

DIMENSIONS RFOU P4/P11 8,7/15 kV

Cross section (mm2)	Overall Diameter	Weight (Kg/ km)	Ampacity Open Air 45°C (A)	Conductor resistance at 20°C (Ohm/Km)
1 x 50	30,7	1.630	196	0,3930
1 x 70	32,5	1.940	242	0,2770
1 x 95	34,6	2.270	293	0,2100
1 x 120	37,0	2.700	339	0,1640
1 x 150	38,7	3.100	389	0,1320
1 x 185	40,6	3.585	444	0,1080
1 x 240	43,7	4.300	522	0,0817
3 x 50/25	60,5	5.980	137	0,3930
3 x 70/35	64,6	7.065	169	0,2770
3 x 95/50	68,7	8.370	205	0,2100
3 x 120/60	72,9	9.750	237	0,1640

DIMENSIONS RFOU P3/P10 6/10 kV

Cross section (mm2)	Overall Diameter	Weight (Kg/ km)	Ampacity Open Air 45°C (A)	Conductor resistance at 20°C (Ohm/Km)
1 x 50	28,5	1.470	196	0,3930
1 x 70	30,2	1.730	242	0,2770
1 x 95	32,0	2.090	293	0,2100
1 x 120	34,1	2.410	339	0,1640
1 x 150	35,6	2.750	389	0,1320
1 x 185	38,2	3.250	444	0,1080
1 x 240	41,2	4.030	522	0,0817
3 x 50/25	55,2	5.200	137	0,3930
3 x 70/35	59,2	6.150	169	0,2770
3 x 95/50	63,6	7.490	205	0,2100
3 x 120/60	67,7	8.795	237	0,1640

DIMENSIONS RFOU P19/P21 12/20 kV

Cross section (mm2)	Overall Diameter	Weight (Kg/ km)	Ampacity Open Air 45°C (A)	Conductor resistance at 20°C (Ohm/Km)
1 x 50	33,0	1.810	196	0,3930
1 x 70	34,8	2.080	242	0,2770
1 x 95	37,4	2.490	293	0,2100
1 x 120	39,1	2.830	339	0,1640
1 x 150	41,1	3.280	389	0,1320
1 x 185	43,4	3.795	444	0,1080
1 x 240	46,2	4.530	522	0,0817
3 x 50/25	65,5	6.745	137	0,3930
3 x 70/35	69,5	7.810	169	0,2770
3 x 95/50	73,6	9.170	205	0,2100
3 x 120/60	77,8	10.650	237	0,1640