CABLE SOLUTIONS WORLDWIDE LTD

XTREM OFFSHORE
RFOU (c) S2/S6

Offshore instrumentation 250 V collectively screened

IEC 60092-376 / 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 per pair:
1 x ..... blue
2 x ..... black
Each pair is numbered.
3 x ..... brown (for triads)

3. Screen

Individual polyester/copper tape with tinned copper drain wire.

4. Bedding

Halogen Free compound.

5. Braid / Armour

LSZH polyolephine outer sheath SHF1 type. Black colour, non-toxic and fire retardant.

6. 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.

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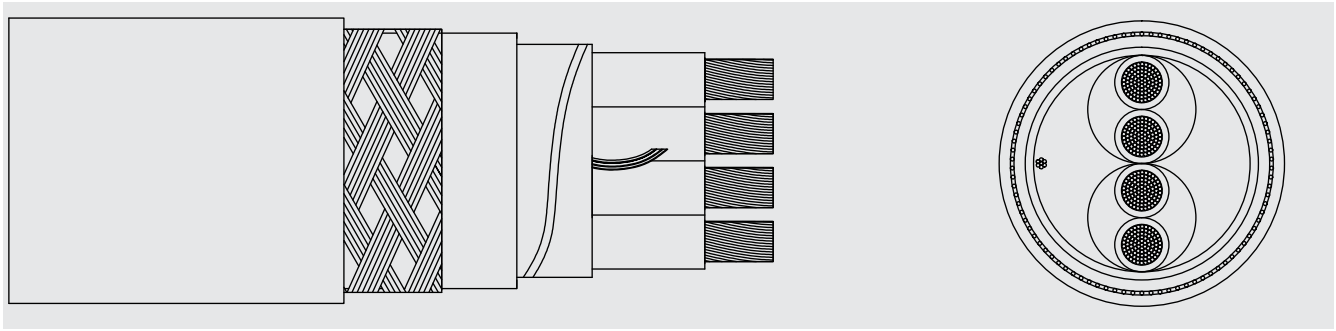

CHARACTERISTICS

Electrical performance

LOW VOLTAGE 0,6/1kV

Standards

IEC 60092-353 / NEK TS 606

Approvals

DNV-GL
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

MUD

According to NEK TS 606




DIMENSIONS

Cross section (mm2)	Diameter (mm)	Weight (Kg/km)	Open Air 45°C (A)	Voltage drop (V/A·km)	Conductor resistance at 20°C (Ohm/Km)
1 x 2 x 0,75	10,8	160	17,1	62,5	28,3
2 x 2x 0,75	16,0	325	13,7	62,5	28,3
4 x 2 x 0,75	18,1	390	11,2	62,5	28,3
8 x 2 x 0,75	22,5	650	8,9	62,5	28,3
12 x 2 x 0,75	26,8	810	7,7	62,5	28,3
16 x 2 x 0,75	29,9	980	7,0	62,5	28,3
19 x 2 x 0,75	31,4	1.100	6,5	62,5	28,3
24 x 2 x 0,75	36,8	1.320	6,5	62,5	28,3
1 x 2 x 1,5	12,0	200	23,0	32,0	14,5
2 x 2x 1,5	18,2	415	18,4	32,0	14,5
4 x 2 x 1,5	20,0	550	15,0	32,0	14,5
7 x 2 x 1,5	24,1	800	12,4	32,0	14,5
8 x 2 x 1,5	26,0	850	12,0	32,0	14,5
12 x 2 x 1,5	30,0	1.100	10,3	32,0	14,5
16 x 2 x 1,5	32,5	1.350	9,4	32,0	14,5
19 x 2 x 1,5	36,5	1.690	9,0	32,0	14,5
24 x 2 x 1,5	40,5	2.000	8,5	32,0	14,5