



XTREM OFFSHORE RFOU (i) S1/S5

Offshore instrumentation 250 V individually 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

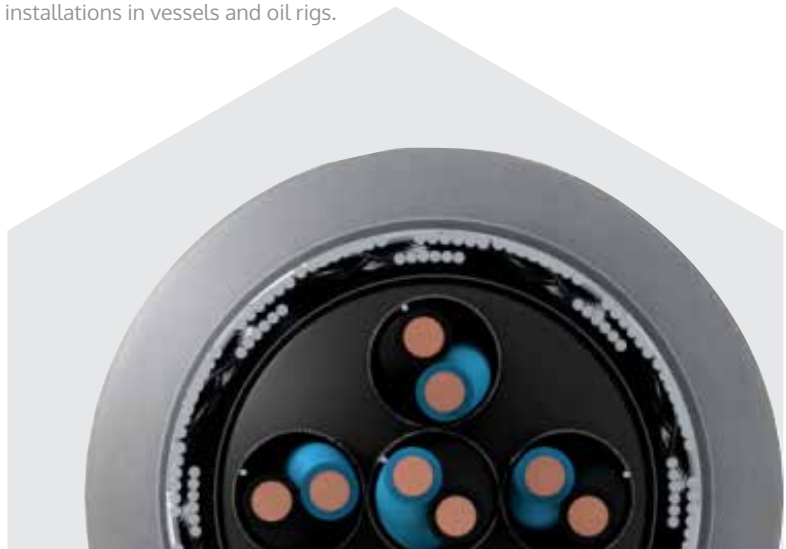
Tinned copper wire braid.

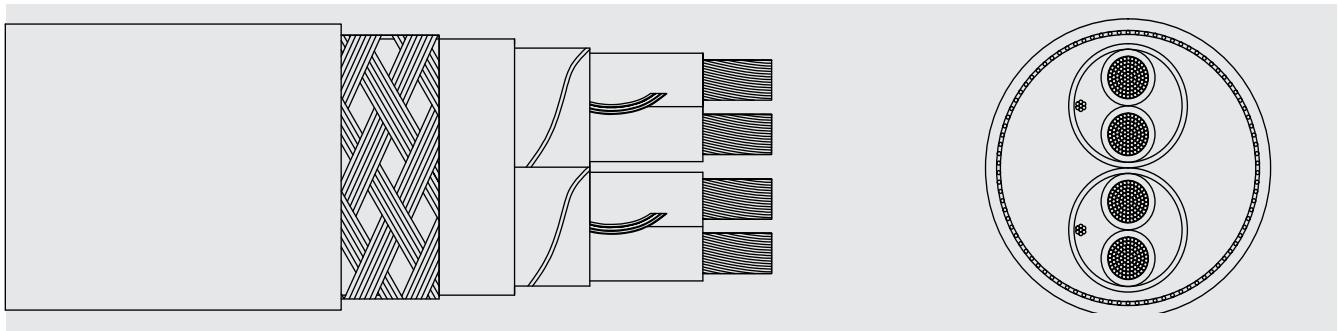
6. Outer sheath

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

APPLICATIONS

Offshore instrumentation 250 V individually screened cable. Heavy duty, mud resistant, instrumentation 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 60092-376 and NEK TS 606. These cables offer excellent performance in the harsh environments encountered offshore. Suitable for fixed installations in vessels and oil rigs.





CHARACTERISTICS



Electrical performance

INSTRUMENTATION 250V



Standards

IEC 60092-376 / 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

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 2 x 0,75	10,4	155	17,1	62,5	28,3
2 x 2 x 0,75	15,0	310	13,7	62,5	28,3
4 x 2 x 0,75	17,4	415	11,2	62,5	28,3
8 x 2 x 0,75	21,7	645	8,9	62,5	28,3
12 x 2 x 0,75	26,3	865	7,7	62,5	28,3
16 x 2 x 0,75	29,0	1.000	7,0	62,5	28,3
19 x 2 x 0,75	30,4	1.170	6,5	62,5	28,3
24 x 2 x 0,75	35,7	1.400	6,5	62,5	28,3
1 x 2 x 1,5	11,6	190	23,0	32,0	14,5
2 x 2 x 1,5	17,8	390	18,4	32,0	14,5
4 x 2 x 1,5	20,4	585	15,0	32,0	14,5
7 x 2 x 1,5	23,5	800	12,4	32,0	14,5
8 x 2 x 1,5	25,9	930	12,0	32,0	14,5
12 x 2 x 1,5	31,1	1.265	10,3	32,0	14,5
16 x 2 x 1,5	33,2	1.600	9,4	32,0	14,5
19 x 2 x 1,5	37,3	1.885	9,0	32,0	14,5
24 x 2 x 1,5	41,7	2.400	8,5	32,0	14,5