



# XTREM OFFSHORE BFOU (i) S3/S7

Fire resistant offshore instrumentation 250 V individually screened

IEC 60092-376 / NEK TS 606

## DESIGN

### 1. Conductor

Class 5 tinned copper, based on IEC 60228.

### 2/3 Insulation

Mica Tape + 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)

### 4. Screen

Individual polyester/copper tape with tinned copper drain wire.

### 5. Bedding

Halogen Free compound.

### 6. Braid / Armour

Tinned copper wire braid.

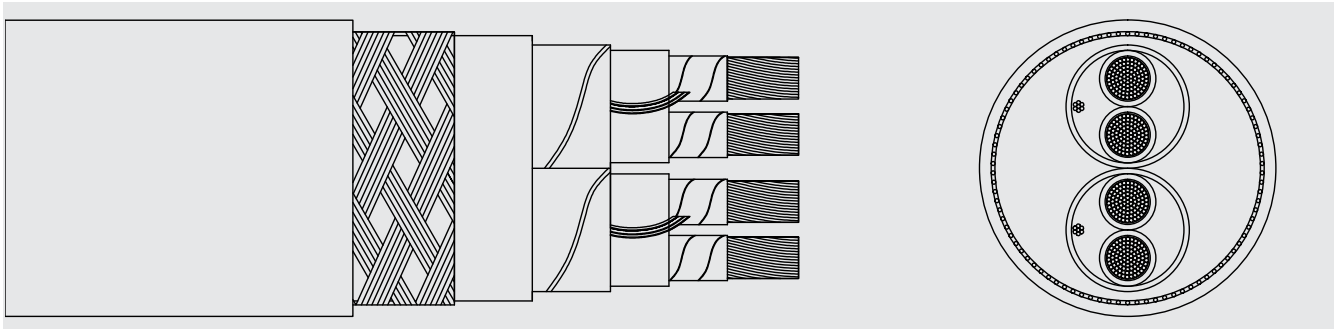
### 7. Outer sheath

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

## APPLICATIONS

Fire resistant offshore instrumentation 250 V individually screened cables. These fire resistant cables are specially designed to transmit data in the presence of fire. 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 60092-376 and NEK TS 606. Suitable for fixed installations in vessels and oil rigs, assuring the highest level of safety, security and reliability.





## 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.  
Fire resistant: according to IEC 60331-21 (90 min. at 750 °C) | according to IEC 60331-2 / EN 50200 for Ø cable < 20 mm (120 min. at 840 °C) | according to IEC 60331-1 / EN 50362 for Ø cable > 20 mm (120 min. at 840 °C)



### 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  
Wall attached  
On tray  
In conduit



### Applications

Oil rigs  
Marine use  
Public places



### Mud resistance

According to NEK TS 606



## DIMENSIONS

Cross section (mm <sup>2</sup> )	Inner diameter (mm)	Outer 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 2 x 0,75	7,5	11,3	170	17,1	62,5	28,3
2 x 2 x 0,75	12,7	17,3	355	13,7	62,5	28,3
4 x 2 x 0,75	15,0	19,6	500	11,2	62,5	28,3
8 x 2 x 0,75	19,3	24,3	790	8,9	62,5	28,3
12 x 2 x 0,75	22,6	28,0	1.020	7,7	62,5	28,3
16 x 2 x 0,75	26,4	32,2	1.350	7,0	62,5	28,3
19 x 2 x 0,75	28,5	34,5	1.750	6,5	62,5	28,3
24 x 2 x 0,75	32,0	38,6	2.200	6,5	62,5	28,3
1 x 2 x 1,5	8,5	12,3	210	23,0	32,0	14,5
2 x 2 x 1,5	14,1	18,7	440	18,4	32,0	14,5
4 x 2 x 1,5	17,4	22,4	675	15,0	32,0	14,5
7 x 2 x 1,5	19,5	24,5	950	12,4	32,0	14,5
8 x 2 x 1,5	20,3	25,3	1.060	12,0	32,0	14,5
12 x 2 x 1,5	23,9	29,7	1.475	10,3	32,0	14,5
16 x 2 x 1,5	28,0	34,0	1.850	9,4	32,0	14,5
19 x 2 x 1,5	32,0	38,5	2.400	9,0	32,0	14,5
24 x 2 x 1,5	36,5	43,2	3.000	8,5	32,0	14,5
1 x 3 x 1,5	8,9	12,7	230	23,0	32,0	14,5