

BFOU (i)

Ship and offshore cable, 250V
+90 °C service temperature, low smoke, zero halogen, fire retardant, fire resistant
NEK 606 and IEC 60092-353

Application

Fire resistant instrumentation cable for fixed installations on ships and offshore platforms. Instrumentation cables are used to transmit digital or analogue signals for measurement or process control applications. Suitable for use in all demanding marine environment conditions such as muddy, dry, wet or oily conditions meeting the requirements of NEK 606.

Construction



- | | |
|-----------------------|---|
| 1. Conductor: | Copper conductor, tinned, stranded (class 2) or on request flexible (class 5) |
| 2. Insulation: | Mica tape +EPR or XLPE according to IEC 60092-360 |
| Core identification: | Pairs: black, blue
Triples: black, blue, brown |
| 3. Individual screen: | Laminated Alu/PETP tape + tinned copper drain wire |
| 4. Core covering: | Halogen free |
| 5. Armoring: | Tinned copper wire braid |
| 6. Outer sheath: | Halogen free compound, mud resistant, grey or blue (SHF2) |

Technical information

Rated voltage	U ₀ /U	0,6/1 kV
Max. permissible temperature at conductor		90 °C
Max. short circuit temperature of the conductor		250 °C (max. 5 sec)
Min. installation temperature		-20 °C
Min. bending radius mm	fixed installation	8 x outer diameter in mm

Safety parameters

Flame spread	single cable	IEC 60332-1-2
	bunched cables	IEC 60332-3-22
Halogen free		IEC 60754-1 /-2
Smoke density		IEC 61034-1/ -2
Fire resistant		IEC 60331-1

Additional parameters

UV resistance	Good
Chemical resistance	Very good

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Number of pairs	Outer Ø nom. mm	Weight nom. kg/km	Outer Ø nom. mm	Weight nom. kg/km	Outer Ø nom. mm	Weight nom. kg/km
	0,75 mm ²		1,5 mm ²		2,5 mm ²	
1	11,6	210	13	240	14,4	290
2	17,1	330	19,6	430	21,4	560
4	19,6	450	22,6	610	24,7	1080
7	23	610	26,7	860	29,3	1850
8	27,7	730	32,8	1140	36,6	1920
9	27,7	810	32,8	1290	36,6	2040
10	27,7	930	32,8	1180	36,6	22310
12	29,8	960	35,4	1300		
14	31,2	1300	37,6	1510		
16	33,4	1450	39,7	1850		
19	35,1	1750	41,8	2210		
24	39,7	1710	47,2	2520		

Number of triples	Outer Ø nom. mm	Weight nom. kg/km	Outer Ø nom. mm	Weight nom. kg/km	Outer Ø nom. mm	Weight nom. kg/km
	0,75 mm ²		1,5 mm ²		2,5 mm ²	
1	12,1	230	14	270	15,1	410
2	18,7	390	21,6	510	23,6	760
4	21,5	540	25	760	27,4	1580
7	25,4	800	29,7	1,25	32,6	2480
8	30,7	910	37	1090	40,7	2770
9	30,7	1210	37	1850	40,7	3080
10	30,7	1380	37	1700	40,7	3480
12	33,6	1680	39,9	1900		
14	35,2	1950	41,9	2280		
16	37,6	1600	44,8	2600		
19	39,6	2510	47,1	2990		
24	44,7	2190	52,8	2720		

La version française de cette fiche technique est disponible sur demande,
De technische gegevens zijn op aanvraag in het Nederlands beschikbaar,