



BFOI-RFE-EMC

Fire resistant, armoured

EMC-screened communication cable

$n \times 2 \times (0.75 - 1.5) \text{mm}^2$

250V

DNV-GL

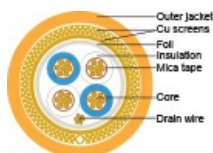
Application

Fire resistant instrumentation and communication cable for fixed installation in most areas and on open deck in ships and offshore structures. If the cable is exposed to direct sun light protective covering or cable with black outer sheath is recommended. Design to meet requirements for improved EMC screening properties.



Construction

Conductor	0.75 or 1.5 [mm ²] Stranded Bare Cu class 2 (IEC 60228) Tinned Cu on request
Insulation	XLPE (IEC 60092-360)
Fire barrier each conductor	Mica tape
No. of pairs	See table , two insulated cores twisted together to form a pair. For quad, see table
Filler	Filler tape
Screen	Cu-wire + Cu-folie 100 [% coverage]
Armour	Cu-braid > 94 % [% optical cover] (IEC 60092-350), the armour serves as a collective screen
Rip cord	Yes
Jacket	Orange Polyolefine SHF1 (IEC 60092-360), other material and colour on request



Specifications

Operating temperature	-40 – +80 [°C]
Temperature @ installation	-15 – +50 [°C]
Max. conductor temp.	+90 [°C]
Operating voltage	150/250 [V] (300V)
Loop inductance, nom.	0.75mm ² : 0,6 / 1.5mm ² : 0,7 mH/km
Insulation resistance	≥ 1500 [MΩ x km]
Capacitance pair	0.75mm ² : 45 / 1.5mm ² : 55 [nF/km]
Loop resistance	pair max. 0.75mm ² : 52 / 1.5mm ² : 24,4 [Ω/km]



Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754
Design and testing standards	IEC 60092-376
Flame retardant	IEC 60332-3-22, IEC 60332-1-2
Fire resistant	IEC 60331-1, -2
Oil and fuel, hydrocarbons resistant	IEC 60811-404
Smoke emission	IEC 61034



Core (mm ²)	O.D. (mm)	Min. bending diam. (mm)	Weight (kg/km)
1 x 2 x 0.75	11,0	65	145
2 x 2 x 0.75 Quad	12,5	75	195
2 x 2 x 0.75	15,0	90	240
3 x 2 x 0.75	15,5	90	270
4 x 2 x 0.75	16,5	100	310
7 x 2 x 0.75	19,5	115	460
8 x 2 x 0.75	20,5	125	510
10 x 2 x 0.75	23,0	140	615
12 x 2 x 0.75	24,0	145	675
14 x 2 x 0.75	25,0	150	745
16 x 2 x 0.75	25,5	155	820
19 x 2 x 0.75	27,5	165	920
24 x 2 x 0.75	31,0	185	1130
27 x 2 x 0.75	32,5	195	1230
30 x 2 x 0.75	34,0	205	1345
32 x 2 x 0.75	35,0	210	1410
1 x 2 x 1.5	13,0	80	210
2 x 2 x 1.5 Quad	14,0	85	275
2 x 2 x 1.5	18,0	110	400
3 x 2 x 1.5	19,0	115	450
4 x 2 x 1.5	20,5	125	500
7 x 2 x 1.5	24,0	145	730
8 x 2 x 1.5	25,5	150	800
10 x 2 x 1.5	28,0	170	965
12 x 2 x 1.5	29,0	175	1080
14 x 2 x 1.5	31,0	185	1210
16 x 2 x 1.5	33,0	200	1370
19 x 2 x 1.5	35,5	215	1560