


RFE-FRHF (i) Fire-resistant armoured and pair screened instrumentation and communication cable 250V



DESIGN:	STANDARDS:
	IEC 60092-376, design
1. Conductor	
- stranded copper conductor	IEC 60228, class 2
2. Insulation	
- Mica tape - XLPE plastic	IEC 60092-351
3. Pair screen	
- plastic coated aluminium tape and a tinned copper drain wire	
4. Bedding	
- filler tape	
5. Armour	
- drain wire copper - copper wire braid, coverage > 90%	IEC 60092-350
6. Sheath	
- polyolefine plastic, SHF1 - standard colour green, other colours on request	IEC 60092-359

Flame-retardant ●

Fire-resistant ●

Halogen-free ●

Low smoke emission ●

Application: For fixed installation in all areas and on open deck in ships.
If the cable is exposed to direct sun light protective covering or cable with black outer sheath is recommended.

Main characteristics

Rated voltage	150/250V (300V)	
Maximum conductor temperature	+ 90 °C	
Flame-retardant	IEC 60332-1-2 IEC 60332-3-22	-test for single insulated wire and cable -test for bunched wires and cables, category A
Fire-resistant	IEC 60331-21	
Halogen-free	IEC 60754 series	
Smoke emission	IEC 61034 series	

Electrical data

	0,75mm ²	1,5mm ²	Unit
Loop resistance of pair, max. / +20°C	52	24,4	ohm/km
Pair capacitance, nom. / 800Hz	55	75	nF/km
Loop inductance, nom.	0,6	0,7	mH/km
Insulation resistance / +20°C	≥1500	≥1500	Mohm*km.

Minimum recommended installation temperature -15 °C
Lowest operation temperature -40 °C

Identification: Lot number, cable type, cable size, voltage, temperature, standards, production month, manufacturer's name and meter marking printed on the sheath

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Number of conductors & cross-section n x mm ²	Nominal outer diameter mm	Approximate weight kg/km	Min.bending radius fixed installation mm
2x2x0,75	14,0	225	85
4x2x0,75	17,0	325	105
7x2x0,75	21,0	525	130
8x2x0,75	22,0	580	135
10x2x0,75	24,5	700	150
12x2x0,75	26,0	805	160
14x2x0,75	28,5	905	175
19x2x0,75	32,5	1170	195
24x2x0,75	36,0	1420	220
2x2x1,5	17,0	340	105
4x2x1,5	19,0	520	115
7x2x1,5	23,0	790	140
8x2x1,5	25,0	875	150
10x2x1,5	30,5	1250	185
12x2x1,5	32,0	1420	195
14x2x1,5	33,5	1625	205
19x2x1,5	38,5	2120	235

Core identification

Each pair white - blue. Cores numbered 1, 2, 3, 4, 5....

The pairs are also covered by a numbered tape (1, 2, 3, 4, 5....)

