


# RFA-FRHF

## Fire-resistant screened instrumentation and communication cable 250V



DESIGN:	STANDARDS:
	IEC 60092-376, design
<b>1. Conductor</b>	
- stranded copper conductor	IEC 60228, class 2
<b>2. Insulation</b>	
- Mica tape - XLPE plastic	IEC 60092-351
<b>3. Twisted pair</b>	
- two insulated cores twisted together to form a pair See next page for Quad	
<b>4. Screen</b>	
- drain wire tinned copper - aluminium polyester tape coverage 100%	IEC 60092-350
<b>5. Sheath</b>	
- polyolefine plastic, SHF1 - standard colour orange, other colours on request	IEC 60092-359

**Flame-retardant** ●

**Fire-resistant** ●

**Halogen-free** ●

**Low smoke emission** ●

**Application:** For fixed installation in most 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	<b>150/250V (300V)</b>	
Maximum conductor temperature	<b>+ 90 °C</b>	
Flame-retardant	<b>IEC 60332-1-2</b> <b>IEC 60332-3-22</b>	-test for single insulated wire and cable -test for bunched wires and cables, category A
Fire-resistant	<b>IEC 60331-21</b>	
Halogen-free	<b>IEC 60754</b> series	
Smoke emission	<b>IEC 61034</b> series	
For details see general information section		

### Electrical data

Loop resistance of pair, max. / +20°C	52	ohm/km
Pair capacitance, nom. / 800Hz	45	nF/km
Loop inductance, nom.	0,6	mH/km
Insulation resistance / +20°C	≥1500	Mohm*km.

0,75mm <sup>2</sup>	Unit
52	ohm/km
45	nF/km
0,6	mH/km
≥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

RFA-FRHF 250V	Number of conductors & cross-section n x mm <sup>2</sup>	Nominal outer diameter mm	Approximate weight kg/km	Min. bending radius fixed installation mm
Part number				
20635	1x2x0,75	8,5	75	50
20637	2x2x0,75 Quad	10,0	120	60
20639	2x2x0,75	13,0	135	80
20641	4x2x0,75	15,5	215	90
20643	7x2x0,75	18,5	330	110
20645	8x2x0,75	20,0	380	120
20647	10x2x0,75	23,0	480	140
20649	12x2x0,75	24,0	545	145
20651	14x2x0,75	25,5	620	155
20653	16x2x0,75	27,5	700	165
20655	19x2x0,75	29,5	805	175
20657	24x2x0,75	33,5	1030	200
20657	27x2x0,75	35,0	1135	210
21521	1x2x1,5	9,0	100	55

### Core identification

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

(Quad)cable is built up as a star quad with the following identification

1 core white  
2 core blue  
3 core white  
4 core blue

