


RFE-FRHF

Fire-resistant armoured 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. Twisted pair	
- two insulated cores twisted together to form a pair See next page for Quad	
4. Armour	
- drain wire (in all sizes) - copper wire braid, coverage > 94%	IEC 60092-350
5. Sheath	
- 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	150/250V (300V)
Maximum conductor temperature	+ 90 °C
Flame-retardant	IEC 60332-1-2 -test for single insulated wire and cable IEC 60332-3-22 -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	45	55	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

RFE-FRHF 250V	Number of conductors & cross-section n x mm ²	Nominal outer diameter mm	Approximate weight kg/km	Min. bending radius fixed installation mm
Part number				
20520	1x2x0,75	9,5	115	55
20522	2x2x0,75 Quad	11,0	170	65
20524	2x2x0,75	14,0	210	85
20526	4x2x0,75	16,5	330	100
20528	7x2x0,75	20,0	470	120
20530	8x2x0,75	21,0	515	125
20532	10x2x0,75	24,5	640	145
20534	12x2x0,75	25,5	710	150
20536	14x2x0,75	27,0	810	165
20538	19x2x0,75	31,0	1025	185
20540	24x2x0,75	34,5	1260	205
20575	1x2x1,5	10,5	155	65
20577	2x2x1,5 Quad	12,0	220	70
20579	2x2x1,5	16,0	315	95
20581	4x2x1,5	18,5	430	110
20583	7x2x1,5	22,5	655	135
20585	8x2x1,5	24,0	725	145
20587	10x2x1,5	27,5	880	165
20589	12x2x1,5	29,0	1010	175
20591	14x2x1,5	30,5	1135	185
20593	16x2x1,5	33,0	1290	195

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

