

RFA-FRHF (i)

Collectively and individually screened instrumentation and communication cable 250 V

DESIGN:	STANDARDS:
1. Conductor	IEC 60092-376, design IEC 60228, class 2
- stranded copper conductor	
- tinned stranded copper conductor on request	
2. Insulation	IEC 60092-360
- Mica tape	
- XLPE plastic	
3. Twisted pair & individual screen	
- two insulated cores twisted together to form a pair	
- plastic coated aluminium tape and a tinned copper drain wire	
4. Bedding	
- separator tape	
5. Collective screen	IEC 60092-350
- drain wire tinned copper	
- aluminium polyester tape coverage 100 %	
6. Sheath	
- polyolefine plastic, SHF1, standard colour orange	IEC 60092-360
- on request thermosetting polyolefine, SHF2, standard colour black	
- other colours on request	
- rip cord under sheath	



● Flame-retardant ● Fire-resistant ● Halogen-free ● Low smoke emission ● Oil resistant (only SHF2)

Application: For fixed installation in most areas and on open deck in ships and offshore units. 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)
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 60331-1 or IEC 60331-2
Halogen-free	IEC 60754 series
Smoke emission	IEC 61034 series
Oil resistance (only SHF2)	IEC 60811-404 conditions according to 60092-360/SHF2
For details see general information section	

Electrical data:

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

Temperature rating:

Maximum conductor temperature **+ 90 °C**
 Fixed installation **-40 °C to +80 °C**
 Minimum recommended installation temperature **-15 °C**

For details see general information section

RFA-FRHF (i) 250V Part number	Number of conductors & cross-section n x mm²	Nominal outer diameter mm	Approx- imate weight kg/km	Min. bending radius fixed installation mm
20664	1x2x0,75	8,5	80	50
20666	2x2x0,75 Quad	9,5	110	55
20667	2x2x0,75	13,0	145	80
20668	3x2x0,75	14,0	190	85
20669	4x2x0,75	15,5	235	90
20671	7x2x0,75	18,5	365	110
20673	8x2x0,75	20,0	415	120
20675	10x2x0,75	23,0	525	140
20677	12x2x0,75	24,0	600	145
20679	14x2x0,75	25,5	680	155
20681	16x2x0,75	27,5	775	165
20683	19x2x0,75	29,5	890	175
20685	24x2x0,75	33,5	1135	200
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21550	1x2x1,5	9,0	105	55
21552	2x2x1,5 Quad	11,0	170	65
21553	2x2x1,5	14,5	210	90
21554	3x2x1,5	16,0	280	95
21555	4x2x1,5	17,5	345	105
21557	7x2x1,5	21,0	545	125
21559	8x2x1,5	23,0	635	135
21561	10x2x1,5	26,5	800	160
21563	12x2x1,5	27,5	920	165
21565	14x2x1,5	29,5	1050	175
21567	16x2x1,5	31,5	1205	190
21569	19x2x1,5	34,0	1415	205

Other sizes on request.

Part number for oil resistant SHF2 cable:
4 + code from above table → 4xxxxx