

RFA-FRHF

Fire-resistant screened pair instrumentation and communication cable 250V



DESIGN:

- Conductor**
 - stranded copper conductor IEC 60228, class 2
 - tinned stranded copper conductor on request
- Insulation**
 - Mica tape
 - XLPE plastic IEC 60092-360
- Twisted pair**
 - two insulated cores twisted together to form a pair
 - See next page for Quad
- Collective screen**
 - drain wire tinned copper
 - aluminium polyester tape, coverage 100% IEC 60092-350
- Sheath**
 - polyolefine plastic, SHF1, standard colour orange IEC 60092-360
 - on request thermosetting polyolefine, SHF2, standard colour black
 - other colours on request

STANDARDS:
IEC 60092-376, design

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)	
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 60331-1 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. / 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, manufacturer's name, production month and meter marking printed on the sheath



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RFA-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				
20635	1x2x0,75	8,0	70	50
20637	2x2x0,75 Quad	9,5	105	55
20639	2x2x0,75	13,0	135	75
20641	4x2x0,75	15,0	210	90
20643	7x2x0,75	18,0	315	110
20645	8x2x0,75	19,5	355	115
20647	10x2x0,75	22,5	435	135
20649	12x2x0,75	23,5	500	140
20651	14x2x0,75	25,5	590	150
20653	16x2x0,75	27,0	655	160
20655	19x2x0,75	29,0	770	175
20657	24x2x0,75	32,5	950	195
21521	1x2x1,5	9,0	95	55
21524	2x2x1,5 Quad	14,5	185	85
21525	2x2x1,5	14,5	190	85
21526	3x2x1,5	15,5	245	90
21527	4x2x1,5	17,0	310	105
21529	7x2x1,5	20,5	485	125
21531	8x2x1,5	22,5	560	135
21533	10x2x1,5	26,0	695	155
21535	12x2x1,5	27,0	800	160
21537	14x2x1,5	29,0	925	175
21539	16x2x1,5	31,0	1035	185
21541	19x2x1,5	33,5	1230	200
21542	24x2x1,5	37,5	1535	225
21543	27x2x1,5	39,5	1695	235
21544	30x2x1,5	42,0	1900	250
21545	32x2x1,5	43,0	2005	260
21547	37x2x1,5	46,0	2295	275

Other sizes on request.

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



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



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