

RFE-FRHF (i)

Armoured and individually screened instrumentation and communication cable 250V



DESIGN:

- 1. Conductor**
 - stranded copper conductor IEC 60228, class 2
 - tinned stranded copper conductor on request
- 2. Insulation**
 - Mica tape
 - XLPE plastic IEC 60092-360
- 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**
 - filler tape
- 5. Armour**
 - drain wire copper
 - copper wire braid, coverage > 94% IEC 60092-350
 - tinned copper wire braid on request
- 6. 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	

Electrical data

Loop resistance of pair, max. / +20°C
 Pair capacitance, nom. / 800Hz
 Loop inductance, nom.
 Insulation resistance / +20°C

0,75mm ²	1,5mm ²	Unit
52	24,4	ohm/km
55	75	nF/km
0,6	0,7	mH/km
≥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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RFE-FRHF(i) 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				
20550	2x2x0,75	14,0	215	85
20548	2x2x0,75 Quad	11,0	170	65
20552	4x2x0,75	16,5	345	100
20554	7x2x0,75	20,0	495	120
20556	8x2x0,75	21,0	545	125
20558	10x2x0,75	24,5	675	145
20560	12x2x0,75	25,5	770	155
20562	14x2x0,75	27,0	865	165
20564	19x2x0,75	31,0	1105	185
20566	24x2x0,75	35,0	1370	210
20568	32x2x0,75	39,5	1735	235
20603	1x2x1,5	10,5	160	65
20604	2x2x1,5 Quad	12,0	225	70
20605	2x2x1,5	16,0	315	95
20607	4x2x1,5	19,0	470	115
20609	7x2x1,5	22,5	710	135
20603	1x2x1,5	10,5	160	65
20605	2x2x1,5	16,0	315	95
20607	4x2x1,5	19,0	470	115
20609	7x2x1,5	22,5	710	135
20611	8x2x1,5	24,0	795	145
20613	10x2x1,5	27,5	970	165
20615	12x2x1,5	29,0	1130	175
20617	14x2x1,5	31,0	1275	185
20619	16x2x1,5	33,0	1430	200
20621	19x2x1,5	35,5	1640	215

Other sizes on request.

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....)

Part number for oil resistant SHF2 cable:

4 + code from above table → 4xxxxx



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