

RFE-FRHF (i)

Armoured and individually screened instrumentation and communication cable 250V

DESIGN:	STANDARDS: IEC 60092-376, design	
1. Conductor	- stranded copper conductor - tinned stranded copper conductor on request	IEC 60228, class 2
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% - tinned copper wire braid on request	IEC 60092-350
6. Sheath	- polyolefine plastic, SHF1, standard colour orange - on request thermosetting polyolefine, SHF2, standard colour black - other colours on request - rip cord under sheath	IEC 60092-360



● 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

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

RFE-FRHF (i) 250V Part number	Number of conductors & cross-section n x mm ²	Nominal outer diameter mm	Approx- imate weight kg/km	Min. bending radius fixed installation mm
20546	1x2x0,5	9,5	120	55
20548	2x2x0,75 Quad	11,0	170	65
20550	2x2x0,75	14,0	215	85
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
20563	16x2x0,75	29,0	970	175
20564	19x2x0,75	31,0	1105	185
20566	24x2x0,75	35,0	1370	210
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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
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.

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