

# RFA-HF (i)

## Collectively and individually screened instrumentation and communication cable 250 V

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



● Flame-retardant ● 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, especially when lightweight cables are needed. If the cable is exposed to direct sun light protective covering or cable with black outer sheath is recommended.

### Main characteristics

Rated voltage	<b>150/250V (300V)</b>
Flame-retardant	<b>IEC 60332-1-2</b> -test for single insulated wire and cable <b>IEC 60332-3-22</b> -test for bunched wires and cables, category A
Halogen-free	<b>IEC 60754</b> series
Smoke emission	<b>IEC 61034</b> series
Oil resistance (only SHF2)	<b>IEC 60811-404</b> conditions according to 60092-360/SHF2

Electrical data:	0,5mm <sup>2</sup>	0,75mm <sup>2</sup>	1,5mm <sup>2</sup>	Unit
Loop resistance of pair, max. / +20°C	80	52	24,4	ohm/km
Pair capacitance, nom. / 1 KHz	55	70	90	nF/km
Loop inductance, nom.	0,6	0,6	0,7	mH/km
Insulation resistance / +20°C	≥1500	≥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-HF (i) 250V Part number	Number of conductors & cross-section n x mm <sup>2</sup>	Nominal outer diameter mm	Approx- imate weight kg/km	Min. bending radius fixed installation mm
–	1x2x0,5	6,0	50	35
–	1x3x0,5	6,0	55	35
–	2x2x0,5 Quad	6,5	65	40
20940	2x2x0,5	8,5	80	50
20942	4x2x0,5	10,0	130	60
20944	7x2x0,5	12,0	200	70
20946	8x2x0,5	12,5	225	75
20948	10x2x0,5	14,5	280	85
20950	12x2x0,5	15,0	320	90
20952	14x2x0,5	16,0	360	95
20954	16x2x0,5	17,0	405	100
20956	19x2x0,5	18,5	475	110
20958	24x2x0,5	20,5	600	125
20960	32x2x0,5	23,5	775	140
20962	37x2x0,5	25,0	880	150
21058	1x2x0,75	6,5	60	40
21058	1x2x0,75	6,5	60	40
–	1x3x0,75	7,0	70	40
–	2x2x0,75 Quad	7,5	85	45
21059	2x2x0,75	10,0	110	60
21100	3x2x0,75	10,5	135	65
21061	4x2x0,75	11,5	170	70
21115	5x2x0,75	13,0	205	75
21063	7x2x0,75	14,0	260	85
21065	8x2x0,75	15,0	300	90
21067	10x2x0,75	17,0	370	105
21069	12x2x0,75	18,0	425	110
21071	14x2x0,75	19,0	480	115
21073	16x2x0,75	20,5	560	125
21075	19x2x0,75	22,0	645	135
21077	24x2x0,75	24,5	795	150
21375	1x2x1,5	8,5	95	50
21281	1x3x1,5	8,5	100	50
21377	2x2x1,5 Quad	10,0	155	60
21378	2x2x1,5	13,5	190	80
21379	3x2x1,5	14,0	240	85
21380	4x2x1,5	16,0	310	95
21381	7x2x1,5	19,0	485	115
21382	8x2x1,5	20,5	565	125
21383	10x2x1,5	23,5	695	140
21384	12x2x1,5	25,0	805	150
21385	14x2x1,5	26,5	915	160
21386	16x2x1,5	28,5	1045	170
21387	19x2x1,5	30,5	1210	185
21388	24x2x1,5	34,5	1535	205
21389	27x2x1,5	36,5	1715	220

Other sizes on request.

Part number for oil resistant SHF2 cable:

4 + code from above table → 4xxxxx