

RFA-HF (i)

Collectively and individually screened instrumentation and communication cable 250 V



DESIGN:

- 1. Conductor**
 - stranded copper conductor IEC 60228, class 2
 - tinned stranded copper conductor on request
- 2. Insulation**
 - 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**
 - separator tape
- 5. Collective screen**
 - drain wire tinned copper IEC 60092-350
 - aluminium polyester tape, coverage 100%
- 6. Sheath**
 - polyolefine plastic, SHF1 EC 60092-360
 - on request, thermosetting polyolefine, SHF2
 - standard colour grey, 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, 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	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
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

	0,5mm ²	0,75mm ²	1,5mm ²	Unit
Loop resistance of pair, max. / +20°C	80	52	24,4	ohm/km
Pair capacitance, nom.	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

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-HF(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				
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
21059	2x2x0,75	10,0	110	60
21100	3x2x0,75	10,5	140	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	485	115
21073	16x2x0,75	20,5	560	125
21075	19x2x0,75	22,0	645	135
21077	24x2x0,75	24,5	800	150
21375	1x2x1,5	8,5	95	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
21390	30x2x1,5	38,0	1885	230
21391	32x2x1,5	39,5	2030	235
21392	37x2x1,5	42,0	2305	250

Other sizes on request.

Core identification

Each pair white - blue. Cores numbered 1, 2, 3, 4, 5....

The pairs are covered by a numbered tape (1, 2, 3, 4, 5....)

Part number for oil resistant SHF2 cable:

4 + code from above table → 4xxxxx