

RFA-HF

Screened pair instrumentation and communication cable

250V



DESIGN:

- Conductor**
 - stranded copper conductor IEC 60228, class 2
 - tinned stranded copper conductor on request
- Insulation**
 - 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 IEC 60092-350
 - coverage 100%
- 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. / 800Hz	55	50	60	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 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				
20910	1x2x0,5	5,5	40	35
20912	2x2x0,5 Quad	6,5	60	40
20914	2x2x0,5	8,0	70	50
20906	3x2x0,5	9,0	90	55
20916	4x2x0,5	9,5	110	60
20918	7x2x0,5	11,5	155	70
20920	8x2x0,5	12,5	180	75
20922	10x2x0,5	14,0	220	85
20924	12x2x0,5	14,5	250	90
20926	14x2x0,5	15,5	280	95
20928	16x2x0,5	16,5	310	100
20930	19x2x0,5	18,0	365	105
20932	24x2x0,5	20,0	460	120
20934	32x2x0,5	23,0	590	135
20936	37x2x0,5	24,5	665	145
20970	1x2x0,75	6,5	55	40
20972	2x2x0,75 Quad	7,5	75	45
20974	2x2x0,75	10,0	95	60
20976	4x2x0,75	11,5	145	70
20978	7x2x0,75	14,0	220	85
20980	8x2x0,75	15,0	250	90
20982	10x2x0,75	17,0	310	100
20984	12x2x0,75	17,5	355	105
20986	14x2x0,75	19,0	400	115
20988	16x2x0,75	20,5	465	120
20990	19x2x0,75	22,0	530	130
20992	24x2x0,75	24,0	655	145
20994	32x2x0,75	27,5	845	165
20996	37x2x0,75	30,0	980	180
21356	1x2x1,5	8,5	85	50
21358	2x2x1,5 Quad	10,0	140	60
21359	2x2x1,5	13,5	170	80
21360	3x2x1,5	14,0	215	85
21361	4x2x1,5	15,5	265	90
21362	7x2x1,5	18,5	415	110
21363	8x2x1,5	20,0	475	120
21364	10x2x1,5	23,0	600	140
21365	12x2x1,5	24,5	685	145
21366	14x2x1,5	26,0	795	155
21367	16x2x1,5	27,5	890	165
21368	19x2x1,5	30,0	1045	180
21369	24x2x1,5	33,5	1305	200
21370	27x2x1,5	35,5	1465	215
21371	30x2x1,5	37,5	1600	225
21372	32x2x1,5	38,5	1715	230
21373	37x2x1,5	41,0	1945	245

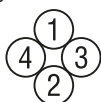
Other sizes on request.

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



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