

RFA-FRHF+WSR/WJR

Fire Resistant + Water Spray Resistant and/or Water Jet Resistant screened pair instrumentation and communication cable 250V

Cable types: RFA-FRHF+WSR (diameter ≤ 20 mm)
RFA-FRHF+WJR (diameter > 20 mm)

DESIGN:	STANDARDS: IEC 60092-376, design	
1. Conductor	- stranded copper conductor 0,75–2,5 mm ² - tinned stranded copper conductor on request	IEC 60228, class 2
2. Insulation	- special grade Mica tape(s) - XLPE plastic	IEC 60092-360
3. Twisted unit and cabling	- insulated, numbered cores twisted together to form a pair, triple or quad - cabling with optional fillers or dummy cores to obtain symmetrical and round construction - separator tape over cabling	
4. Collective screen	- drain wire tinned copper - aluminium polyester tape, coverage 100%	IEC 60092-350
5. Sheath	- polyolefine plastic, SHF1, standard colour orange IEC 60092-360 - oil resistant thermosetting black polyolefine, SHF2 on request - other colours on request - rip cord under sheath	



● Halogen-free ● Flame-retardant ● Low smoke emission ● Fire-resistant ● Water Spray and/or Water Jet Resistant

Application: For fixed installation in most areas and on open deck in ships and offshore units. Especially intended to ensure the availability of all critical transportation-, comfort- and safety systems, i.e. to meet the concepts of; **Orderly Evacuation** (3 hours burning time) and **Safe Return to Port** (Fire test with simultaneous Water Spray / Water Jet + mechanical shocks) to simulate the firefighting conditions.

If the cable is exposed to direct sunlight, we recommend cable with black outer sheath or a protective covering.

Main characteristics

Rated voltage	150/250V (300V)
Halogen-free	IEC 60754 series
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
Smoke emission	IEC 61034 series
Fire- and Water Spray Resistant	IEC 60331-2 (180 min test) + EN 50200:2015 Annex E (diameter ≤ 20 mm)
Fire- and Water Jet Resistant	IEC 60331-1 (180 min test) + BS 8491:2008 (diameter > 20 mm)
Oil resistance (only SHF2)	IEC 60811-404 conditions according to 60092-360/SHF2
For details see general information section	

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	45	55	nF/km
Loop inductance, nom.	0,6	0,7	mH/km
Insulation resistance / +20°C	≥1500	≥1500	Mohm/km

Recommended minimum bending radius (fixed installation): 4 x outer diameter of the cable

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-FRHF +WSR/WJR 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
620635	1x2x0,75	8,0	70	50
620637	2x2x0,75 Quad	9,5	105	55
620639	2x2x0,75	13,0	145	75
620641	4x2x0,75	15,0	210	90
620643	7x2x0,75	18,0	315	110
620645	8x2x0,75	19,5	355	115
620647	10x2x0,75	22,5	435	135
620649	12x2x0,75	23,5	500	140
620651	14x2x0,75	25,5	590	150
620653	16x2x0,75	27,0	655	160
620655	19x2x0,75	29,0	770	175
620657	24x2x0,75	32,5	950	195
620658	30x2x0,75	36,0	1175	215
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621521	1x2x1,5	9,0	95	55
621524	2x2x1,5 Quad	11,0	160	65
621525	2x2x1,5	14,5	210	85
621527	4x2x1,5	17,0	310	105
621529	7x2x1,5	20,5	485	125
621531	8x2x1,5	22,5	560	135
621533	10x2x1,5	26,0	695	155
621535	12x2x1,5	27,0	800	160
621537	14x2x1,5	29,0	925	175
621539	16x2x1,5	31,0	1035	185
621541	19x2x1,5	33,5	1230	200

Other sizes on request.

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