

RFE-FRHF(i)+WSR/WJR

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

Cable types:	RFE-FRHF(i)+WSR (diameter ≤ 20 mm), RFE-FRHF(i)+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 with individual screen	- insulated, numbered cores twisted together to form a pair, triple or quad - plastic coated aluminium tape and a tinned copper drain wire	
4. Cabling and bedding	- fillers or dummy cores may be added to obtain symmetrical and round construction - filler tape	
5. Armour	- drain wire (in all sizes) - copper wire braid, coverage > 94% - tinned copper wire braid on request - the armour serves as a collective screen	IEC 60092-350
6. 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	55	75	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

RFE-FRHF (i) +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
620546	1x2x0,75	9,5	120	55
620548	2x2x0,75 Quad	11,0	170	65
620550	2x2x0,75	14,0	225	85
620552	4x2x0,75	16,5	345	100
620554	7x2x0,75	20,0	495	120
620556	8x2x0,75	21,0	545	125
620558	10x2x0,75	24,5	675	145
620560	12x2x0,75	25,5	770	155
620562	14x2x0,75	27,0	865	165
620563	16x2x0,75	29,0	970	175
620564	19x2x0,75	31,0	1105	185
620566	24x2x0,75	35,0	1370	210
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620603	1x2x1,5	10,5	160	65
620604	2x2x1,5 Quad	12,0	225	70
620605	2x2x1,5	16,0	335	95
620607	4x2x1,5	19,0	470	115
620609	7x2x1,5	22,5	710	135
620611	8x2x1,5	24,0	795	145
620513	10x2x1,5	27,5	970	165
620615	12x2x1,5	29,0	1130	175
620617	14x2x1,5	31,0	1275	185
620619	16x2x1,5	33,0	1430	200
620621	19x2x1,5	35,5	1640	215

Other sizes on request.

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