

RFE-FRHF+WSR/WJR

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

Cable types:	RFE-FRHF+WSR (diameter ≤ 20 mm) RFE-FRHF+WJR (diameter > 20 mm)
DESIGN:	STANDARDS: IEC 60092-376, design IEC 60228, class 2
1. Conductor	- stranded copper conductor 0,75–2,5 mm ² - tinned stranded copper conductor on request
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
4. Bedding	- filler tape
5. Armour	- drain wire (in all sizes) - copper wire braid, coverage > 94% IEC 60092-350 - tinned copper wire braid on request - the armour serves as a collective screen
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	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



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RFE-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
620520	1x2x0,75	9,0	115	55
620522	2x2x0,75 Quad	11,0	170	65
620524	2x2x0,75	14,0	200	85
620526	4x2x0,75	16,0	285	95
620528	7x2x0,75	19,5	445	115
620530	8x2x0,75	21,0	495	125
620532	10x2x0,75	24,0	615	145
620534	12x2x0,75	25,0	685	150
620536	14x2x0,75	26,5	765	160
620538	16x2x0,75	28,5	855	170
620538	19x2x0,75	30,5	970	180
620540	24x2x0,75	34,0	1205	205
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620575	1x2x1,5	10,5	155	65
620577	2x2x1,5 Quad	12,0	220	70
620579	2x2x1,5	16,0	300	95
620581	4x2x1,5	18,5	425	110
620583	7x2x1,5	22,5	650	135
620585	8x2x1,5	24,0	715	145
620587	10x2x1,5	27,0	875	160
620589	12x2x1,5	28,5	1000	170
620591	14x2x1,5	30,5	1125	180
620593	16x2x1,5	32,5	1280	195
620595	19x2x1,5	35,0	1460	210

Other sizes on request.

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