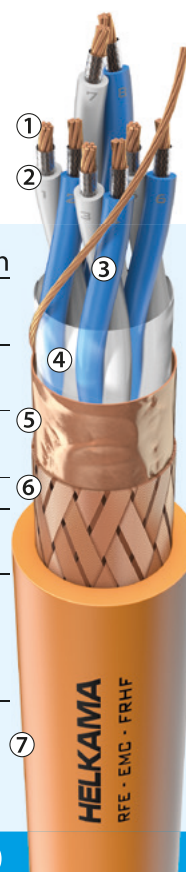


# RFE-EMC-FRHF

## Fire-resistant armoured pair instrumentation and communication cable with improved collective EMC screening 250V



DESIGN:	STANDARDS:
<b>1. Conductor</b> - stranded copper conductor - tinned stranded copper conductor on request	IEC 60092-376, design IEC 60228, class 2
<b>2. Insulation</b> - Mica tape - XLPE plastic	IEC 60092-360
<b>3. Twisted pair</b> - two insulated cores twisted together to form a pair See next page for Quad	
<b>4. Bedding</b> - filler tape	
<b>5. Screen</b> - drain wire copper (in all sizes) - copper tape 100%	
<b>6. Armour</b> - the armour serves as a collective screen - drain wire (in all sizes) - copper wire braid, coverage > 94% - tinned copper wire braid on request	IEC 60092-350
<b>7. Sheath</b> - polyolefine plastic, SHF1, standard colour orange - on request thermosetting polyolefine, SHF2, standard colour black - other colours on request - rip cord under sheath	IEC 60092-360

● 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. If the cable is exposed to direct sun light protective covering or cable with black outer sheath is recommended. Design to meet requirements for improved EMC screening properties.

### Main characteristics

Rated voltage	150/250V (300V)
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
Fire-resistant	IEC 60331-1 or IEC 60331-2
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:

	0,75mm <sup>2</sup>	1,5mm <sup>2</sup>	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

### 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-EMC-FRHF 250V	Number of conductors & cross-section n x mm <sup>2</sup>	Nominal outer diameter mm	Approx- imate weight kg/km	Min. bending radius fixed installation mm
22915	1x2x0,75	11,0	145	65
22917	2x2x0,75 Quad	12,5	195	75
22918	2x2x0,75	15,0	240	90
22919	3x2x0,75	15,5	270	90
22920	4x2x0,75	16,5	310	100
22921	7x2x0,75	19,5	460	115
22922	8x2x0,75	20,5	510	125
22923	10x2x0,75	23,0	615	140
22924	12x2x0,75	24,0	675	145
22925	14x2x0,75	25,0	745	150
22926	16x2x0,75	25,5	820	155
22927	19x2x0,75	27,5	920	165
22928	24x2x0,75	31,0	1130	185
22929	27x2x0,75	32,5	1230	195
22930	30x2x0,75	34,0	1345	205
22931	32x2x0,75	35,0	1410	210
22934	1x2x1,5	13,0	210	80
22936	2x2x1,5 Quad	14,0	275	85
22937	2x2x1,5	18,0	400	110
22938	3x2x1,5	19,0	450	115
22939	4x2x1,5	20,5	500	125
22940	7x2x1,5	24,0	730	145
22941	8x2x1,5	25,5	800	150
22942	10x2x1,5	28,0	965	170
22943	12x2x1,5	29,0	1080	175
22944	14x2x1,5	31,0	1210	185
22945	16x2x1,5	33,0	1370	200
22946	19x2x1,5	35,5	1560	215

Other sizes on request.

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