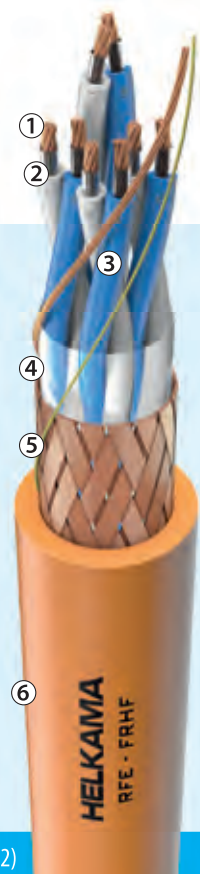


# RFE-FRHF

## Fire-resistant armoured pair instrumentation and communication cable 250V



DESIGN:	STANDARDS:
<b>1. Conductor</b>	IEC 60092-376, design IEC 60228, class 2
- stranded copper conductor	
- tinned stranded copper conductor on request	
<b>2. Insulation</b>	IEC 60092-360
- Mica tape	
- XLPE plastic	
<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. Armour</b>	IEC 60092-350
- drain wire (in all sizes)	
- copper wire braid, coverage > 94%	
- tinned copper wire braid on request	
- the armour serves as a collective screen	
<b>6. Sheath</b>	IEC 60092-360
- polyolefine plastic, SHF1, standard colour orange	
- on request thermosetting polyolefine, SHF2, standard colour black	
- other colours on request	
- rip cord under sheath	

● 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.

### Main characteristics

Rated voltage	<b>150/250V (300V)</b>
Flame-retardant	<b>IEC 60332-1-2</b> -test for single insulated wire and cable <b>IEC 60332-3-22</b> -test for bunched wires and cables, category A
Fire-resistant	<b>IEC 60331-1 or IEC 60331-2</b>
Halogen-free	<b>IEC 60754</b> series
Smoke emission	<b>IEC 61034</b> series
Oil resistance (only SHF2)	<b>IEC 60811-404</b> 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

<b>RFE-FRHF 250V</b>	<b>Number of conductors &amp; cross-section n x mm<sup>2</sup></b>	<b>Nominal outer diameter mm</b>	<b>Approx- imate weight kg/km</b>	<b>Min. bending radius fixed installation mm</b>
<b>Part number</b>				
20520	1x2x0,75	9,0	115	55
20522	2x2x0,75 Quad	11,0	170	65
20524	2x2x0,75	14,0	200	85
20526	4x2x0,75	16,0	285	95
20528	7x2x0,75	19,5	445	115
20530	8x2x0,75	21,0	495	125
20532	10x2x0,75	24,0	615	145
20534	12x2x0,75	25,0	685	150
20536	14x2x0,75	26,5	765	160
20538	19x2x0,75	30,5	970	180
20540	24x2x0,75	34,0	1205	205
<hr/>				
20575	1x2x1,5	10,5	155	65
20577	2x2x1,5 Quad	12,0	215	70
20579	2x2x1,5	16,0	300	95
20574	3x2x1,5	17,0	355	100
20581	4x2x1,5	18,5	425	110
20583	7x2x1,5	22,5	650	135
20585	8x2x1,5	24,0	715	145
20587	10x2x1,5	27,0	875	160
20589	12x2x1,5	28,5	1000	170
20591	14x2x1,5	30,5	1125	180
20593	16x2x1,5	32,5	1280	195
20595	19x2x1,5	35,0	1460	210

Other sizes on request.

Part number for oil resistant SHF2 cable:

4 + code from above table → 4xxxxx