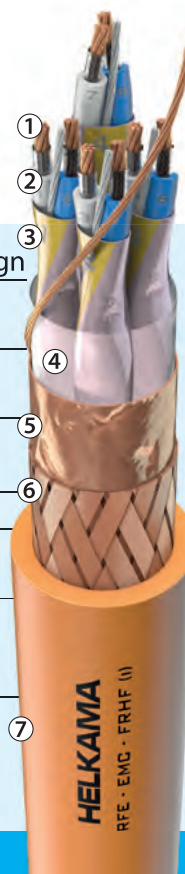


# RFE-EMC-FRHF(i)

**Armoured and individually screened instrumentation and communication cable with improved EMC screening 250V**

DESIGN:	STANDARDS: IEC 60092-376, design	
<b>1. Conductor</b>	- stranded copper conductor - tinned stranded copper conductor on request	IEC 60228, class 2
<b>2. Insulation</b>	- Mica tape - XLPE plastic	IEC 60092-360
<b>3. Twisted pair &amp; individual screen</b>	- two insulated cores twisted together to form a pair - plastic coated aluminium tape and a tinned copper drain wire	
<b>4. Bedding</b>	- filler tape	
<b>5. Screen</b>	- drain wire copper (in all sizes) - copper tape 100%	
<b>6. Armour</b>	- 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	<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</b> or <b>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	55	75	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(i) 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
Part number				
22858	1x2x0,75	10,5	145	65
22860	2x2x0,75 Quad	12,5	200	75
22861	2x2x0,75	15,5	250	90
22862	3x2x0,75	16,0	295	95
22863	4x2x0,75	18,0	385	105
22864	7x2x0,75	21,0	540	125
22865	8x2x0,75	22,0	590	135
22866	10x2x0,75	25,5	730	150
22867	12x2x0,75	26,5	825	160
22868	14x2x0,75	28,5	920	170
22869	16x2x0,75	30,0	1030	180
22870	19x2x0,75	32,0	1170	195
22871	24x2x0,75	36,0	1445	215
22877	1x2x1,5	12,0	190	70
22879	2x2x1,5 Quad	13,5	260	80
22880	2x2x1,5	17,5	385	105
22881	3x2x1,5	18,0	425	110
22882	4x2x1,5	20,0	515	120
22883	7x2x1,5	23,5	755	140
22884	8x2x1,5	25,5	850	150
22885	10x2x1,5	28,5	1030	170
22886	12x2x1,5	30,5	1190	180
22887	14x2x1,5	32,0	1340	195
22888	16x2x1,5	34,0	1500	205
22889	19x2x1,5	36,5	1715	220

Other sizes on request.

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