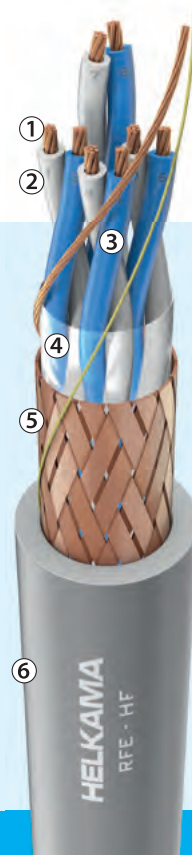


# 1 RFE-HF

## Armoured pair instrumentation and communication cable 250V

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



● Flame-retardant ● 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	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
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:	0,5mm <sup>2</sup>	0,75mm <sup>2</sup>	1,5mm <sup>2</sup>	Unit
Loop resistance of pair, max. / +20°C	80	52	24,4	ohm/km
Pair capacitance, nom. / 1 KHz	55	50	60	nF/km
Loop inductance, nom.	0,6	0,6	0,7	mH/km
Insulation resistance / +20°C	≥1500	≥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-HF 250V Part number	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
20362	1x2x0,5	6,5	75	40
–	1x3x0,5	7,0	85	40
20364	2x2x0,5 Quad	7,5	90	45
20363	2x2x0,5	9,5	120	55
20366	4x2x0,5	10,5	155	65
20368	7x2x0,5	12,5	220	75
20369	8x2x0,5	13,5	240	80
20370	10x2x0,5	15,5	315	90
20371	12x2x0,5	16,0	350	95
20372	14x2x0,5	17,0	390	100
20373	16x2x0,5	18,0	435	110
20374	19x2x0,5	19,0	490	115
20376	24x2x0,5	21,5	600	130
20377	32x2x0,5	24,0	750	145
20378	37x2x0,5	25,5	835	155
20382	1x2x0,75	7,5	90	45
–	1x3x0,75	8,0	100	45
20384	2x2x0,75 Quad	8,5	115	50
20383	2x2x0,75	11,0	150	65
20386	4x2x0,75	12,5	205	75
20388	7x2x0,75	15,0	290	90
20389	8x2x0,75	16,0	350	95
20390	10x2x0,75	18,0	425	110
20391	12x2x0,75	19,0	475	115
20392	14x2x0,75	20,0	530	120
20393	16x2x0,75	21,5	600	130
20394	19x2x0,75	23,0	680	140
20396	24x2x0,75	25,5	820	155
20398	32x2x0,75	29,0	1035	175
20399	37x2x0,75	31,0	1185	185
20490	1x2x1,5	10,0	140	60
–	1x3x1,5	10,0	160	60
20491	2x2x1,5 Quad	11,0	195	65
20492	2x2x1,5	14,5	235	85
20493	4x2x1,5	17,0	380	100
20494	7x2x1,5	20,0	555	120
20495	8x2x1,5	21,5	635	130
20496	10x2x1,5	24,5	770	150
20497	12x2x1,5	26,0	865	155
20498	14x2x1,5	27,5	975	165
20503	16x2x1,5	29,0	1095	175
20499	19x2x1,5	31,5	1250	190
20500	24x2x1,5	35,0	1555	210

Other sizes on request.

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