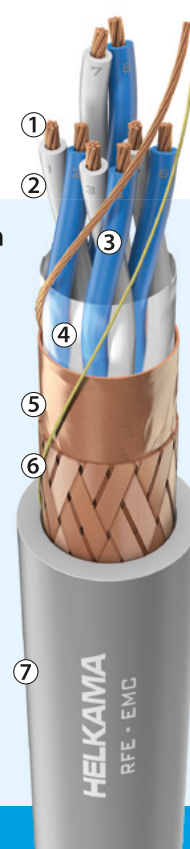


# RFE-EMC

## Armoured pair instrumentation and communication cable with improved collective 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>	- 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>	- copper wire braid, coverage >94% - tinned copper wire braid on request - the armour serves as a collective screen	IEC 60092-350
<b>7. 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. 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
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
Transfer impedance	<b>IEC 61196-1</b> (typical value 26dB over 1mΩ/m at 100MHz [20mΩ/m])

### 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-EMC 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
21968	1x2x0,5	8,5	95	50
21969	1x3x0,5	8,5	130	50
21970	2x2x0,5 Quad	9,0	140	55
21971	2x2x0,5	10,5	140	65
21972	3x2x0,5	11,0	155	65
21973	4x2x0,5	12,0	195	75
21974	7x2x0,5	14,0	250	85
21975	8x2x0,5	15,0	280	90
21976	10x2x0,5	16,0	325	95
21977	12x2x0,5	16,5	360	100
21978	14x2x0,5	18,0	405	105
21979	16x2x0,5	18,5	440	110
21980	19x2x0,5	20,0	495	120
21981	24x2x0,5	22,0	595	130
21982	27x2x0,5	23,5	670	140
21983	30x2x0,5	24,0	725	145
21984	32x2x0,5	25,0	755	150
21985	37x2x0,5	26,5	840	160
21987	1x2x0,75	9,0	110	55
21988	1x3x0,75	9,5	150	55
21989	2x2x0,75 Quad	10,0	160	60
21990	2x2x0,75	12,5	185	75
21991	3x2x0,75	13,0	210	75
21992	4x2x0,75	14,0	240	85
21993	7x2x0,75	16,0	330	95
21994	8x2x0,75	17,0	365	100
21995	10x2x0,75	19,0	435	115
21996	12x2x0,75	19,5	480	120
21997	14x2x0,75	21,0	545	125
21998	16x2x0,75	22,0	595	130
21999	19x2x0,75	23,5	675	140
22000	24x2x0,75	26,5	840	160
22001	27x2x0,75	27,5	915	165
22002	30x2x0,75	29,0	990	175
22003	32x2x0,75	29,5	1055	180
22004	37x2x0,75	31,5	1175	190
22375	1x2x1,5	11,0	160	65
22376	1x3x1,5	11,5	195	70
22377	2x2x1,5 Quad	12,5	240	75
22378	2x2x1,5	15,5	270	90
22379	3x2x1,5	16,5	325	100
22380	4x2x1,5	17,5	385	105
22381	7x2x1,5	21,0	560	125
22382	8x2x1,5	22,0	630	135
22383	10x2x1,5	25,5	775	150
22384	12x2x1,5	26,5	875	160
22385	14x2x1,5	28,5	995	170
22386	16x2x1,5	30,0	1100	180
22387	19x2x1,5	32,0	1275	195
22388	24x2x1,5	36,0	1565	215

Other sizes on request.

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