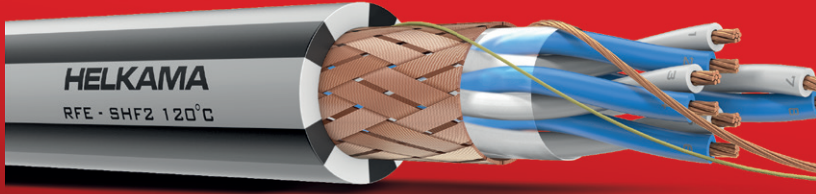


# RFE-SHF2 120 °C

250 V

Heat and oil resistant armoured pair instrumentation  
and communication cable



• Flame-retardant • Halogen-free • Low smoke emission • Oil resistant • 120 °C heat resistant

<b>CONDUCTOR</b>	Stranded copper conductor, IEC 60228 Class 2
<b>INSULATION</b>	Improved heat resistant XLPE (120 °C)
<b>TWISTED PAIR</b>	Two insulated cores twisted together to form a pair
<b>BEDDING</b>	Filler tape
<b>ARMOUR</b>	Copper drain wire (all sizes) Copper wire braid, coverage > 90% Tinned copper wire braid on request Armour serves as collective screen
<b>SHEATH</b>	Improved heat resistant SHF2 (120 °C), IEC 60092-360 Standard colour black with grey stripes, other colours on request
<b>REFERENCE STANDARD</b>	IEC 60092-376

## APPLICATION

Heat and oil resistant armoured pair instrumentation and communication cable. For fixed installation in most areas and on open deck in ships or oil rigs, and for various industrial use. Excellent resistance against weathering, ozone, UV-rays, oil / diesel oil. Typical Marine, Oil, Gas and Petrochemical applications include ship engine rooms, power plants and/or other areas where ambient temperature may exceed 80 °C, the limit for traditional IEC 60092-cables.

## PHYSICAL PROPERTIES:

**CORE IDENTIFICATION** Pair colours white and blue  
Pair identification with colour  
code and identification number

**MARINE TYPE  
APPROVALS** Refer to RFE-SHF2

## MAIN CHARACTERISTICS:

**RATED VOLTAGE** 150/250 V (300 V)

**FIRE PERFORMANCE** IEC 60332-1-2  
IEC 60332-3-22

**HALOGEN-FREE** IEC 60754 series

**SMOKE EMISSION** IEC 61034 series

**OIL RESISTANCE** IEC 60811-404 conditions  
according to 60092-360

**MIN. INSTALLATION  
TEMPERATURE** -15 °C

**OPERATING TEMPERATURE** -40 - 120 °C fixed installation

**MAXIMUM CONDUCTOR  
TEMPERATURE** 120 °C

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**HELKAMA**  
THE PERFECT CONNECTION

helkamabica.com  
customer.care@helkamabica.fi  
+358 2 410 8700

## ELECTRICAL PROPERTIES:

	0.5 mm <sup>2</sup>	0.75 mm <sup>2</sup>	1.5 mm <sup>2</sup>	Unit
Loop resistance (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

## RFE-SHF2 250 V 120 °C

Part number	No. of conductors x Conductor area (mm <sup>2</sup> )	Nominal outer Ø (mm)	Weight kg/km	Min. bending radius mm (fixed)
4120362	1 x 2 x 0.5	6.5	80	40
4120364	2 x 2 x 0.5 Quad	7.5	95	45
4120363	2 x 2 x 0.5	9.5	115	55
4120366	4 x 2 x 0.5	10.5	150	65
4120368	7 x 2 x 0.5	12.5	215	75
4120369	8 x 2 x 0.5	13.5	235	80
4120370	10 x 2 x 0.5	15.5	310	90
4120371	12 x 2 x 0.5	16.0	340	95
4120372	14 x 2 x 0.5	17.0	395	100
4120373	16 x 2 x 0.5	18.0	425	110
4120374	19 x 2 x 0.5	19.0	480	115
4120376	24 x 2 x 0.5	21.5	585	130
4120382	1 x 2 x 0.75	7.5	90	45
4120384	2 x 2 x 0.75 Quad	8.5	120	50
4120383	2 x 2 x 0.75	11.0	145	65
4120386	4 x 2 x 0.75	12.5	200	75
4120388	7 x 2 x 0.75	15.0	315	90
4120389	8 x 2 x 0.75	16.0	345	95
4120390	10 x 2 x 0.75	18.0	415	110
4120391	12 x 2 x 0.75	19.0	465	115
4120392	14 x 2 x 0.75	20.0	535	120
4120393	16 x 2 x 0.75	21.5	585	130
4120394	19 x 2 x 0.75	23.0	675	140
4120396	24 x 2 x 0.75	25.5	815	155
4120398	32 x 2 x 0.75	29.0	1040	175
4120490	1 x 2 x 1.5	10.0	135	60
4120491	2 x 2 x 1.5 Quad	10.5	185	65
4120492	2 x 2 x 1.5	14.5	230	85
4120493	4 x 2 x 1.5	17.0	370	100
4120494	7 x 2 x 1.5	20.0	540	120
4120495	8 x 2 x 1.5	21.5	620	130
4120496	10 x 2 x 1.5	24.5	750	150
4120497	12 x 2 x 1.5	26.0	850	155
4120498	14 x 2 x 1.5	27.5	955	165
4120499	19 x 2 x 1.5	31.5	1230	190
4120500	24 x 2 x 1.5	35.0	1525	210

Standard length 1000 m

Other sizes on request.

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