

# RFE-SHF2 120°C

## Heat and oil resistant armoured pair instrumentation and communication cable 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>	- improved heat resistant XLPE (+120°C)	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>	- copper wire braid, coverage > 90% - tinned copper wire braid on request - the armour serves as a collective screen	IEC 60092-350
<b>6. Sheath</b>	- improved heat resistant SHF2 (+120°C) - standard colour black with grey stripes, other colours on request - rip cord under sheath	IEC 60092-360



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

**Application:** For fixed installation in most areas and on open deck in ships or on oil rigs and various industrial use. Excellent resistance against weathering, ozone, UV-rays, Oil / Diesel oil. Typical Marine, Oil, Gas and Petrochemical applications are for example Ship Engine rooms, power plants and/or other areas where ambient temperature may exceed +80°C, which is the limit for traditional IEC 60092-cables.

### Main characteristics

Rated voltage	<b>150/250V (300V)</b>
Oil resistance	<b>IEC 60811-404</b> conditions according to 60092-360
Halogen-free	<b>IEC 60754</b> series
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
Smoke emission	<b>IEC 61034</b> series

### Temperature rating:

Fixed installation: **-40 °C to +120 °C**  
Occasionally moved: **-20 °C to +120 °C**  
Max. conductor temperature: **+120 °C**

### Electrical data:

Loop resistance of pair, max. / +20°C  
Pair capacitance, nom. / 1 KHz  
Loop inductance, nom.  
Insulation resistance / +20°C

	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

For details see general information section

<b>RFE-SHF2 120°C 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>
4120362	1x2x0,5	6,5	80	40
4120364	2x2x0,5 Quad	7,5	95	45
4120363	2x2x0,5	9,5	115	55
4120366	4x2x0,5	10,5	150	65
4120368	7x2x0,5	12,5	215	75
4120369	8x2x0,5	13,5	235	80
4120370	10x2x0,5	15,5	310	90
4120371	12x2x0,5	16,0	340	95
4120372	14x2x0,5	17,0	395	100
4120373	16x2x0,5	18,0	425	110
4120374	19x2x0,5	19,0	480	115
4120376	24x2x0,5	21,5	585	130
4120382	1x2x0,75	7,5	90	45
4120384	2x2x0,75 Quad	8,5	120	50
4120383	2x2x0,75	11,0	145	65
4120386	4x2x0,75	12,5	200	75
4120388	7x2x0,75	15,0	315	90
4120389	8x2x0,75	16,0	345	95
4120390	10x2x0,75	18,0	415	110
4120391	12x2x0,75	19,0	465	115
4120392	14x2x0,75	20,0	535	120
4120393	16x2x0,75	21,5	585	130
4120394	19x2x0,75	23,0	675	140
4120396	24x2x0,75	25,5	815	155
4120398	32x2x0,75	29,0	1040	175
4120490	1x2x1,5	10,0	135	60
4120491	2x2x1,5 Quad	10,5	185	65
4120492	2x2x1,5	14,5	230	85
4120493	4x2x1,5	17,0	370	100
4120494	7x2x1,5	20,0	540	120
4120495	8x2x1,5	21,5	620	130
4120496	10x2x1,5	24,5	750	150
4120497	12x2x1,5	26,0	850	155
4120498	14x2x1,5	27,5	955	165
4120499	19x2x1,5	31,5	1230	190
4120500	24x2x1,5	35,0	1525	210

Other sizes on request.

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