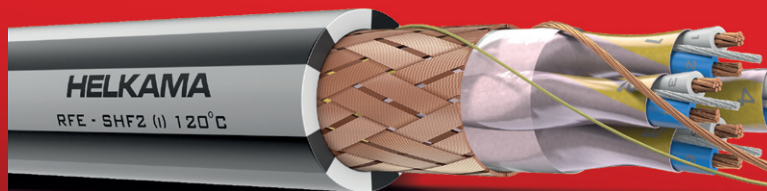


RFE-SHF2 (i) 120 °C

250 V

Heat and oil resistant armoured and individually screened pair instrumentation and communication cable



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

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

APPLICATION

Heat and oil resistant armoured and individually screened 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	DNV, BV and ABS

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

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ELECTRICAL PROPERTIES:

	0.5 mm ²	0.75 mm ²	1.5 mm ²	Unit
Loop resistance (pair, max 20 °C)	80	52	24.4	ohm/km
Pair capacitance (nom. 1 KHz)	55	70	90	nF/km
Loop inductance (nom.)	0.6	0.6	0.7	mH/km
Insulation resistance (20 °C)	≥ 1500	≥ 1500	≥ 1500	Mohm/km

RFE-SHF2 (i) 120 °C 250V

Part number	No. of conductors x Conductor area (mm ²)	Nominal outer Ø (mm)	Weight kg/km	Min. bending radius mm (fixed)
4122338	1 x 2 x 0.5	7.0	85	40
4122342	2 x 2 x 0.5 Quad	7.5	110	45
4122344	2 x 2 x 0.5	9.5	135	60
4122346	3 x 2 x 0.5	10.0	165	60
4122348	4 x 2 x 0.5	11.0	195	65
4122350	7 x 2 x 0.5	13.0	285	75
4122352	8 x 2 x 0.5	13.5	345	80
4122354	10 x 2 x 0.5	15.5	420	95
4122356	12 x 2 x 0.5	16.5	485	100
4122358	14 x 2 x 0.5	17.5	535	105
4122360	16 x 2 x 0.5	18.5	590	110
4122362	19 x 2 x 0.5	19.5	690	120
4122364	24 x 2 x 0.5	22.0	840	135
4122366	27 x 2 x 0.5	23.0	925	140
4122368	30 x 2 x 0.5	24.0	1005	145
4122370	32 x 2 x 0.5	24.5	1070	150
4122372	37 x 2 x 0.5	26.5	1205	160
4122006	1 x 2 x 0.75	7.5	90	45
4122008	2 x 2 x 0.75 Quad	8.5	135	50
4122010	2 x 2 x 0.75	11.0	160	65
4122012	4 x 2 x 0.75	13.0	225	75
4122014	7 x 2 x 0.75	15.5	355	95
4122016	8 x 2 x 0.75	16.5	400	100
4122018	10 x 2 x 0.75	18.5	495	110
4122020	12 x 2 x 0.75	19.5	555	115
4122022	14 x 2 x 0.75	21.0	620	125
4122024	19 x 2 x 0.75	23.5	790	140
4122026	24 x 2 x 0.75	26.0	985	155
4122050	1 x 2 x 1.5	10.0	145	60
4122052	2 x 2 x 1.5 Quad	11.0	170	65
4122054	2 x 2 x 1.5	14.5	200	85
4122056	4 x 2 x 1.5	17.0	250	105
4122058	7 x 2 x 1.5	20.5	405	120
4122060	8 x 2 x 1.5	22.0	605	130
4122062	10 x 2 x 1.5	25.0	690	150
4122064	12 x 2 x 1.5	26.0	840	155
4122066	14 x 2 x 1.5	28.0	955	170
4122068	19 x 2 x 1.5	32.0	1090	195
4122070	24 x 2 x 1.5	36.0	1425	215

Standard length 1000 m

Other sizes on request.

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