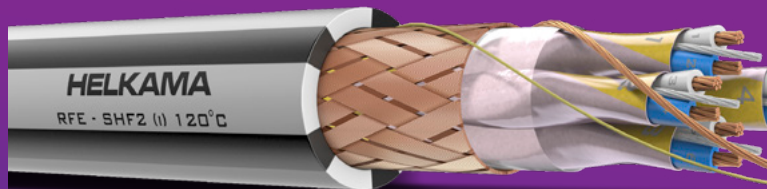


RFE-SHF2 (i) 120 °C

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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