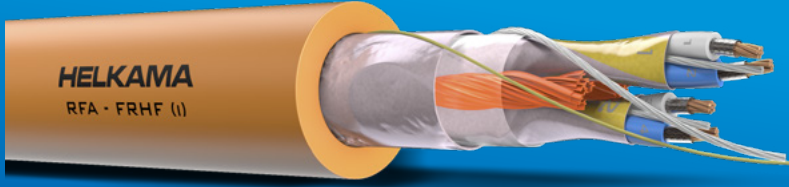


RFA-FRHF (i)

250 V

Fire-resistant collectively and individually screened pair instrumentation and communication cable



- Flame-retardant • Fire-resistant • Halogen-free • Low smoke emission • Oil resistant (SHF2 only)

| | |
|---|--|
| CONDUCTOR | Stranded copper conductor, IEC 60228 Class 2 |
| INSULATION | Mica tape XLPE |
| TWISTED PAIR & INDIVIDUAL SCREEN | Two insulated cores twisted together to form a pair Aluminium polyester tape and tinned copper drain wire |
| CABLING | Cabling, pairs twisted together, with optional fillers to obtain symmetrical and round construction, covered by separator tape |
| COLLECTIVE SCREEN | Tinned copper drain wire (all sizes) Aluminium polyester tape, coverage 100% |
| SHEATH | Polyolefine SHF1, IEC 60092-360 Thermosetting polyolefine SHF2 on request Standard colour orange, SHF2 standard colour black, other colours on request |
| REFERENCE STANDARD | IEC 60092-376 |

APPLICATION

Fire-resistant collectively and individually screened pair instrumentation and communication cable. For fixed installation in most areas, and on open deck in ships and offshore units, especially when lightweight cables are needed. If the cable is exposed to direct sunlight, protective covering or cable with black outer sheath is recommended.

PHYSICAL PROPERTIES:

| | |
|------------------------------|---|
| CORE IDENTIFICATION | Pair colours white and blue Pair identification with colour code and identification number |
| MARINE TYPE APPROVALS | ABS, BV, CCS, CRS, DNV, KR, LR, RINA |

MAIN CHARACTERISTICS:

| | |
|--------------------------------------|--|
| RATED VOLTAGE | 150/250 V (300 V) |
| FIRE PERFORMANCE | IEC 60332-1-2 IEC 60332-3-22 |
| FIRE-RESISTANT | IEC 60331-1 / IEC 60331-2 (180 min) |
| HALOGEN-FREE | IEC 60754 series |
| SMOKE EMISSION | IEC 61034 series |
| OIL RESISTANCE (SHF2 only) | IEC 60811-404 conditions according to 60092-360/SHF2 |
| MIN. INSTALLATION TEMPERATURE | -15 °C |
| OPERATING TEMPERATURE | -40 - 80 °C fixed installation |
| MAXIMUM CONDUCTOR TEMPERATURE | 90 °C |

Subject to change without prior notice. See latest update on our webpage.

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ELECTRICAL PROPERTIES:

| | 0.75 mm ² | 1.5 mm ² | Unit |
|-----------------------------------|----------------------|---------------------|---------|
| Loop resistance (pair, max 20 °C) | 52 | 24.4 | ohm/km |
| Pair capacitance (nom. 1 KHz) | 55 | 75 | nF/km |
| Loop inductance (nom.) | 0.6 | 0.7 | mH/km |
| Insulation resistance (20 °C) | ≥ 1500 | ≥ 1500 | Mohm/km |

RFA-FRHF (i) 250 V

| Part number | No. of conductors x Conductor area (mm ²) | Nominal outer Ø (mm) | Weight kg/km | Min. bending radius mm (fixed) |
|-------------|---|----------------------|--------------|--------------------------------|
| 20664 | 1 x 2 x 0.75 | 8.5 | 80 | 65 |
| 20666 | 2 x 2 x 0.75 Quad | 6.0 | 110 | 50 |
| 20667 | 2 x 2 x 0.75 | 13.0 | 155 | 105 |
| 20668 | 3 x 2 x 0.75 | 14.0 | 190 | 110 |
| 20669 | 4 x 2 x 0.75 | 15.5 | 235 | 120 |
| 20671 | 7 x 2 x 0.75 | 18.5 | 365 | 150 |
| 20673 | 8 x 2 x 0.75 | 20.0 | 415 | 160 |
| 20675 | 10 x 2 x 0.75 | 23.0 | 525 | 185 |
| 20677 | 12 x 2 x 0.75 | 24.0 | 600 | 195 |
| 20679 | 14 x 2 x 0.75 | 25.5 | 680 | 205 |
| 20681 | 16 x 2 x 0.75 | 27.5 | 775 | 220 |
| 20683 | 19 x 2 x 0.75 | 29.5 | 890 | 235 |
| 20685 | 24 x 2 x 0.75 | 33.5 | 1135 | 265 |
| 21550 | 1 x 2 x 1.5 | 9.0 | 105 | 75 |
| 21552 | 2 x 2 x 1.5 Quad | 7.0 | 165 | 55 |
| 21553 | 2 x 2 x 1.5 | 14.5 | 230 | 115 |
| 21554 | 3 x 2 x 1.5 | 16.0 | 275 | 125 |
| 21555 | 4 x 2 x 1.5 | 17.5 | 340 | 140 |
| 21557 | 7 x 2 x 1.5 | 21.0 | 540 | 170 |
| 21559 | 8 x 2 x 1.5 | 23.0 | 630 | 180 |
| 21561 | 10 x 2 x 1.5 | 26.5 | 790 | 210 |
| 21563 | 12 x 2 x 1.5 | 27.5 | 910 | 220 |
| 21565 | 14 x 2 x 1.5 | 29.5 | 1040 | 235 |
| 21567 | 16 x 2 x 1.5 | 31.5 | 1195 | 250 |
| 21569 | 19 x 2 x 1.5 | 34.0 | 1400 | 275 |

Standard length 1000 m

SHF2 on request. Part number for SHF2 cables 4 + code from above table → 4xxxxx

Other sizes on request.