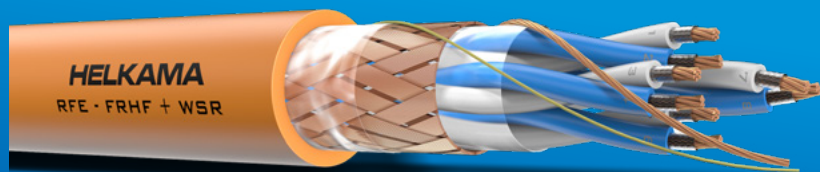


RFE-FRHF+WSR/WJR

250 V

Fire-resistant + Water Spray Resistant and/or Water Jet Resistant armoured pair instrumentation and communication cable

250 V CABLES



- Flame-retardant • Fire-resistant • Halogen-free • Low smoke emission • Water Spray and/or Water Jet Resistant

| | |
|---------------------------|--|
| CONDUCTOR | Stranded copper conductor, IEC 60228 Class 2 |
| INSULATION | Special grade Mica tape XLPE |
| TWISTED PAIR | Two insulated cores twisted together to form a pair |
| CABLING/BEDDING | Cabling, pairs twisted together, with optional fillers to obtain symmetrical and round construction. Bedding, lapped tape. |
| ARMOUR | Copper drain wire (all sizes) Copper wire braid, coverage > 90% Tinned copper wire braid on request Armour serves as collective screen |
| 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 + Water Spray Resistant and/or Water Jet Resistant armoured pair instrumentation and communication cable. For fixed installation in most areas, and on open deck in ships and offshore units. Especially intended to ensure availability of all critical transportation-, comfort- and safety systems, i.e. to meet the concepts of; **Orderly Evacuation** (3 hours burning time) and **Safe Return to Port** (Fire test with simultaneous Water Spray / Water Jet + mechanical shocks) to simulate firefighting conditions.

If the cable is exposed to direct sunlight, protective covering or cable with black outer sheath is recommended.

PHYSICAL PROPERTIES:

| | |
|------------------------------|---|
| CABLE TYPES | Cable Ø ≤20 mm RFE-FRHF+WSR Cable Ø >20 mm RFE-FRHF+WJR |
| CORE IDENTIFICATION | Pair colours white and blue Pair identification with colour code and identification number |
| MARINE TYPE APPROVALS | DNV, LR, RINA |

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 |
| FIRE- AND WATER SPRAY RESISTANT (WSR) | IEC 60331-2 + EN 50200 Annex E (180 min) |
| FIRE- AND WATER JET RESISTANT (WJR) | IEC 60331-1 + BS 8491 (180 min) |
| 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 |

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) | 45 | 55 | nF/km |
| Loop inductance (nom.) | 0.6 | 0.7 | mH/km |
| Insulation resistance (20 °C) | ≥ 1500 | ≥ 1500 | Mohm/km |

RFE-FRHF+WSR/WJR 250 V

| Part number | No. of conductors x Conductor area (mm ²) | Nominal outer Ø (mm) | Weight kg/km | Min. bending radius mm (fixed) |
|-------------|---|----------------------|--------------|--------------------------------|
| 620520 | 1 x 2 x 0.75 | 9.5 | 110 | 55 |
| 620522 | 2 x 2 x 0.75 Quad | 11.5 | 165 | 70 |
| 620524 | 2 x 2 x 0.75 | 14.5 | 200 | 85 |
| 620526 | 4 x 2 x 0.75 | 17.0 | 285 | 100 |
| 620528 | 7 x 2 x 0.75 | 20.5 | 465 | 125 |
| 620530 | 8 x 2 x 0.75 | 22.0 | 520 | 130 |
| 620532 | 10 x 2 x 0.75 | 25.5 | 645 | 150 |
| 620534 | 12 x 2 x 0.75 | 26.5 | 720 | 160 |
| 620536 | 14 x 2 x 0.75 | 28.0 | 800 | 170 |
| 620537 | 16 x 2 x 0.75 | 30.0 | 900 | 180 |
| 620538 | 19 x 2 x 0.75 | 32.0 | 1020 | 195 |
| 620540 | 24 x 2 x 0.75 | 36.0 | 1270 | 215 |
| 620575 | 1 x 2 x 1.5 | 11.0 | 150 | 65 |
| 620577 | 2 x 2 x 1.5 Quad | 12.5 | 215 | 75 |
| 620579 | 2 x 2 x 1.5 | 17.0 | 310 | 100 |
| 620581 | 4 x 2 x 1.5 | 19.5 | 440 | 115 |
| 620583 | 7 x 2 x 1.5 | 23.5 | 670 | 140 |
| 620585 | 8 x 2 x 1.5 | 25.0 | 740 | 150 |
| 620587 | 10 x 2 x 1.5 | 28.5 | 905 | 170 |
| 620589 | 12 x 2 x 1.5 | 30.0 | 1035 | 180 |
| 620591 | 14 x 2 x 1.5 | 32.0 | 1165 | 195 |
| 620593 | 16 x 2 x 1.5 | 34.5 | 1320 | 205 |
| 620595 | 19 x 2 x 1.5 | 37.0 | 1510 | 220 |

Standard length 1000 m

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

Other sizes on request.