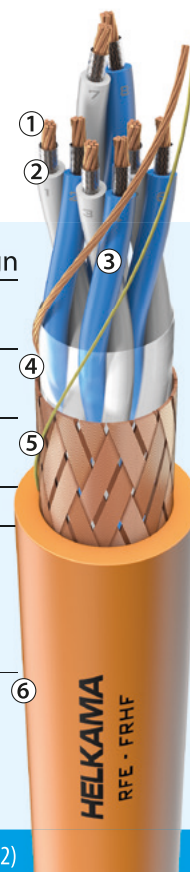


RFE-FRHF

Fire-resistant armoured pair instrumentation and communication cable 250V



| DESIGN: | STANDARDS: |
|--|--|
| 1. Conductor - stranded copper conductor - tinned stranded copper conductor on request | IEC 60092-376, design IEC 60228, class 2 |
| 2. Insulation - Mica tape - XLPE plastic | IEC 60092-360 |
| 3. Twisted pair - two insulated cores twisted together to form a pair See next page for Quad | |
| 4. Bedding - filler tape | |
| 5. Armour - drain wire (in all sizes) - copper wire braid, coverage > 94% - tinned copper wire braid on request - the armour serves as a collective screen | IEC 60092-350 |
| 6. Sheath - polyolefine plastic, SHF1, standard colour orange - on request thermosetting polyolefine, SHF2, standard colour black - other colours on request - rip cord under sheath | IEC 60092-360 |

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

Application: For fixed installation in most areas and on open deck in ships and offshore units. If the cable is exposed to direct sun light protective covering or cable with black outer sheath is recommended.

Main characteristics

| | |
|----------------------------|--|
| Rated voltage | 150/250V (300V) |
| Flame-retardant | IEC 60332-1-2 -test for single insulated wire and cable IEC 60332-3-22 -test for bunched wires and cables, category A |
| Fire-resistant | IEC 60331-1 or IEC 60331-2 |
| Halogen-free | IEC 60754 series |
| Smoke emission | IEC 61034 series |
| Oil resistance (only SHF2) | IEC 60811-404 conditions according to 60092-360/SHF2 |

Electrical data:

| | 0,75mm ² | 1,5mm ² | Unit |
|---------------------------------------|---------------------|--------------------|---------|
| Loop resistance of 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 |

Temperature rating:

Maximum conductor temperature + 90 °C
Fixed installation -40 °C to +80 °C
Minimum recommended installation temperature - 15 °C

For details see general information section

| RFE-FRHF 250V Part number | Number of conductors & cross-section n x mm ² | Nominal outer diameter mm | Approx- imate weight kg/km | Min. bending radius fixed installation mm |
|---------------------------------|---|------------------------------------|-------------------------------------|--|
| 20520 | 1x2x0,75 | 9,0 | 115 | 55 |
| 20522 | 2x2x0,75 Quad | 11,0 | 170 | 65 |
| 20524 | 2x2x0,75 | 14,0 | 200 | 85 |
| 20526 | 4x2x0,75 | 16,0 | 285 | 95 |
| 20528 | 7x2x0,75 | 19,5 | 445 | 115 |
| 20530 | 8x2x0,75 | 21,0 | 495 | 125 |
| 20532 | 10x2x0,75 | 24,0 | 615 | 145 |
| 20534 | 12x2x0,75 | 25,0 | 685 | 150 |
| 20536 | 14x2x0,75 | 26,5 | 765 | 160 |
| 20538 | 19x2x0,75 | 30,5 | 970 | 180 |
| 20540 | 24x2x0,75 | 34,0 | 1205 | 205 |
| <hr/> | | | | |
| 20575 | 1x2x1,5 | 10,5 | 155 | 65 |
| 20577 | 2x2x1,5 Quad | 12,0 | 215 | 70 |
| 20579 | 2x2x1,5 | 16,0 | 300 | 95 |
| 20574 | 3x2x1,5 | 17,0 | 355 | 100 |
| 20581 | 4x2x1,5 | 18,5 | 425 | 110 |
| 20583 | 7x2x1,5 | 22,5 | 650 | 135 |
| 20585 | 8x2x1,5 | 24,0 | 715 | 145 |
| 20587 | 10x2x1,5 | 27,0 | 875 | 160 |
| 20589 | 12x2x1,5 | 28,5 | 1000 | 170 |
| 20591 | 14x2x1,5 | 30,5 | 1125 | 180 |
| 20593 | 16x2x1,5 | 32,5 | 1280 | 195 |
| 20595 | 19x2x1,5 | 35,0 | 1460 | 210 |

Other sizes on request.

Part number for oil resistant SHF2 cable:

4 + code from above table → 4xxxxx

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