

RFE-HF (i) Armoured and pair screened instrumentation and communication cable 250V

HELKAMA RFE-HF (i)

| DESIGN: | STANDARDS: |
|--|-----------------------|
| | IEC 60092-376, design |
| 1. Conductor | |
| - stranded copper conductor | IEC 60228, class 2 |
| 2. Insulation | |
| - XLPE plastic | IEC 60092-351 |
| 3. Twisted pair & pair screen | |
| - two insulated cores twisted together to form a pair | |
| - plastic coated aluminium tape and a tinned copper drain wire | |
| 4. Bedding | |
| - filler tape | |
| 5. Armour | |
| - drain wire copper (in all sizes) | |
| - copper wire braid, coverage > 94% | IEC 60092-350 |
| 6. Sheath | |
| - polyolefine plastic, SHF1 | IEC 60092-359 |
| - standard colour grey, other colours on request | |

Flame-retardant

Fire-resistant

Halogen-free

Low smoke emission

Application: For fixed installation in most areas and on open deck in ships. 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) |
| Maximum conductor temperature | + 90 °C |
| 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 |
| Halogen-free | IEC 60754 series |
| Smoke emission | IEC 61034 series |

Electrical data:

| | | | |
|---------------------------------------|-------|-------|----------|
| Loop resistance of pair, max. / +20°C | 52 | 24,4 | ohm/km |
| Pair capacitance, nom. / 800Hz | 70 | 90 | nF/km |
| Loop inductance, nom. | 0,6 | 0,7 | mH/km |
| Insulation resistance / +20°C | ≥1500 | ≥1500 | Mohm*km. |

| 0,75mm ² | 1,5mm ² | Unit |
|---------------------|--------------------|----------|
| 52 | 24,4 | ohm/km |
| 70 | 90 | nF/km |
| 0,6 | 0,7 | mH/km |
| ≥1500 | ≥1500 | Mohm*km. |

Minimum recommended installation temperature -15 °C
Lowest operation temperature -40 °C

Identification: Lot number, cable type, cable size, voltage, temperature, standards, production month, manufacturer's name and meter marking printed on the sheath

| RFE-HF(i) 250V | Number of conductors & cross-section n x mm ² | Nominal outer diameter mm | Approximate weight kg/km | Min. bending radius fixed installation mm |
|----------------|---|------------------------------|--------------------------|--|
| Part number | | | | |
| 22006 | 1x2x0,75 | 7,5 | 95 | 45 |
| 22008 | 1x4x0,75 | 9,0 | 140 | 55 |
| 22010 | 2x2x0,75 | 11,5 | 170 | 70 |
| 22012 | 4x2x0,75 | 13,0 | 240 | 75 |
| 22014 | 7x2x0,75 | 15,5 | 375 | 95 |
| 22016 | 8x2x0,75 | 16,5 | 420 | 100 |
| 22018 | 10x2x0,75 | 19,0 | 520 | 115 |
| 22020 | 12x2x0,75 | 20,0 | 585 | 120 |
| 22022 | 14x2x0,75 | 21,0 | 650 | 125 |
| 22024 | 19x2x0,75 | 24,0 | 835 | 145 |
| 22026 | 24x2x0,75 | 27,0 | 1035 | 160 |
| 22050 | 1x2x1,5 | 10,0 | 145 | 60 |
| 22052 | 1x4x1,5 | 11,0 | 200 | 65 |
| 22054 | 2x2x1,5 | 14,5 | 255 | 85 |
| 22056 | 4x2x1,5 | 17,0 | 415 | 100 |
| 22058 | 7x2x1,5 | 20,0 | 610 | 120 |
| 22060 | 8x2x1,5 | 22,0 | 700 | 130 |
| 22062 | 10x2x1,5 | 25,0 | 855 | 150 |
| 22064 | 12x2x1,5 | 26,0 | 965 | 155 |
| 22066 | 14x2x1,5 | 28,0 | 1105 | 165 |
| 22068 | 19x2x1,5 | 32,0 | 1440 | 190 |

Core identification

Each pair white - blue. Cores numbered 1, 2, 3, 4, 5....

The pairs are also covered by a numbered tape (1, 2, 3, 4, 5....)

