

RFE-HF

Armoured pair instrumentation and communication cable

250V



DESIGN:

- 1. Conductor**
 - stranded copper conductor IEC 60228, class 2
 - tinned stranded copper conductor on request
- 2. Insulation**
 - 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 copper (in all sizes)
 - copper wire braid, coverage > 94% IEC 60092-350
 - tinned copper wire braid on request
 - the armour serves as a collective screen
- 6. Sheath**
 - polyolefine plastic, SHF1 EC 60092-360
 - on request, thermosetting polyolefine, SHF2
 - standard colour grey, other colours on request

STANDARDS:
IEC 60092-376, design

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)
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
Oil resistance (only SHF2)	IEC 60811-404 conditions according to 60092-360/SHF2

Electrical data:

Loop resistance of pair, max. / +20°C
 Pair capacitance, nom. / 800Hz
 Loop inductance, nom.
 Insulation resistance / +20°C

0,5mm ²	0,75mm ²	1,5mm ²	Unit
80	52	24,4	ohm/km
55	50	60	nF/km
0,6	0,6	0,7	mH/km
≥1500	≥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, manufacturer's name, production month and meter marking printed on the sheath

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RFE-HF 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				
20362	1x2x0,5	6,5	75	40
20364	1x2x0,5 Quad	7,5	90	45
20363	2x2x0,5	9,5	120	55
20366	4x2x0,5	10,5	155	65
20368	7x2x0,5	12,5	220	75
20369	8x2x0,5	13,5	240	80
20370	10x2x0,5	15,5	315	90
20371	12x2x0,5	16,0	350	95
20372	14x2x0,5	17,0	390	100
20373	16x2x0,5	18,0	435	110
20374	19x2x0,5	19,0	490	115
20376	24x2x0,5	21,5	600	130
20382	1x2x0,75	7,5	90	45
20384	1x4x0,75 Quad	8,5	115	50
20383	2x2x0,75	11,0	150	65
20386	4x2x0,75	12,5	205	75
20388	7x2x0,75	15,0	290	90
20389	8x2x0,75	16,0	350	95
20390	10x2x0,75	18,0	425	110
20391	12x2x0,75	19,0	475	115
20392	14x2x0,75	20,0	530	120
20393	16x2x0,75	21,5	600	130
20394	19x2x0,75	23,0	680	140
20396	24x2x0,75	25,5	820	155
20398	32x2x0,75	29,0	1035	175
20490	1x2x1,5	10,0	140	60
20491	1x2x1,5 Quad	10,5	185	65
20492	2x2x1,5	14,5	235	85
20493	4x2x1,5	17,0	380	100
20494	7x2x1,5	20,0	555	120
20495	8x2x1,5	21,5	635	130
20496	10x2x1,5	24,5	770	150
20497	12x2x1,5	26,0	865	155
20498	14x2x1,5	27,5	975	165
20503	16x2x1,5	29,0	1095	175
20499	19x2x1,5	31,5	1250	190
20500	24x2x1,5	35,0	1555	210
20501	32x2x1,5	40,0	1980	240

Other sizes on request.

Core identification

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

(Quad)cable is built up as a star quad with the following identification

1 core white
2 core blue
3 core white
4 core blue



Part number for oil resistant SHF2 cable:

4 + code from above table → 4xxxxx