

NEW

RFE-EMC-FRHF

Fire-resistant armoured pair
instrumentation and communication cable
with improved EMC screening 250V



DESIGN:

- 1. Conductor**
 - stranded copper conductor IEC 60228, class 2
 - tinned stranded copper conductor on request
- 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. Screen**
 - drain wire copper (in all sizes)
 - copper tape 100%
- 6. Armour**
 - the armour serves as a collective screen
 - drain wire (in all sizes)
 - copper wire braid, coverage > 94% IEC 60092-350
 - tinned copper wire braid on request
- 7. Sheath**
 - polyolefine plastic, SHF1, standard colour orange IEC 60092-360
 - on request thermosetting polyolefine, SHF2, standard colour black
 - 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. Design to meet requirements for improved **EMC** screening properties.

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
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

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

0,75mm ²	1,5mm ²	Unit
52	24,4	ohm/km
45	55	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, manufacturer's name, production month and meter marking printed on the sheath



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RFE-EMC-FRHF 250V	Number of conductors & cross-section n x mm²	Nominal outer diameter mm	Approximate weight kg/km	Min. bending radius fixed installation mm
Part number				
22915	1x2x0,75	11,0	145	65
22917	1x4x0,75	12,5	195	75
22918	2x2x0,75	15,0	240	90
22919	3x2x0,75	15,5	270	90
22920	4x2x0,75	16,5	310	100
22921	7x2x0,75	19,5	460	115
22922	8x2x0,75	20,5	510	125
22923	10x2x0,75	23,0	615	140
22924	12x2x0,75	24,0	675	145
22925	14x2x0,75	25,0	745	150
22926	16x2x0,75	25,5	820	155
22927	19x2x0,75	27,5	920	165
22928	24x2x0,75	31,0	1130	185
22929	27x2x0,75	32,5	1230	195
22930	30x2x0,75	34,0	1345	205
22931	32x2x0,75	35,0	1410	210
22932	37x2x0,75	37,0	1570	220
22934	1x2x1,5	13,0	210	80
22936	1x4x1,5	14,0	275	85
22937	2x2x1,5	18,0	400	110
22938	3x2x1,5	19,0	450	115
22939	4x2x1,5	20,5	500	125
22940	7x2x1,5	24,0	730	145
22941	8x2x1,5	25,5	800	150
22942	10x2x1,5	28,0	965	170
22943	12x2x1,5	29,0	1080	175
22944	14x2x1,5	31,0	1210	185
22945	16x2x1,5	33,0	1370	200
22946	19x2x1,5	35,5	1560	215
22947	24x2x1,5	39,5	1910	235
22948	27x2x1,5	42,5	2285	255
22949	30x2x1,5	44,5	2465	265
22950	32x2x1,5	45,5	2660	275
22951	37x2x1,5	49,0	2920	295

Other sizes on request.

Part number for oil resistant SHF2 cable:

4 + code from above table → 4xxxxx



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