

NEW

RFE-EMC-FRHF(i)

Armoured and individually screened 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 & individual screen**
 - two insulated cores twisted together to form a pair
 - plastic coated aluminium tape and a tinned copper drain wire
- 4. Bedding**
 - filler tape
- 4. Screen**
 - drain wire copper (in all sizes)
 - copper tape 100%
- 5. Armour**
 - drain wire copper
 - copper wire braid, coverage > 94% IEC 60092-350
 - tinned copper wire braid on request
- 6. 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

	0,75mm²	1,5mm²	Unit
Loop resistance of pair, max. / +20°C	52	24,4	ohm/km
Pair capacitance, nom. / 800Hz	55	75	nF/km
Loop inductance, nom.	0,6	0,7	mH/km
Insulation resistance / +20°C	≥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(I) 250V				
Part number	Number of conductors & cross-section n x mm²	Nominal outer diameter mm	Approximate weight kg/km	Min. bending radius fixed installation mm
22858	1x2x0,75	10,5	145	65
22860	1x4x0,75	12,5	200	75
22861	2x2x0,75	15,5	250	90
22862	3x2x0,75	16,0	295	95
22863	4x2x0,75	18,0	385	105
22864	7x2x0,75	21,0	540	125
22865	8x2x0,75	22,0	590	135
22866	10x2x0,75	25,5	730	150
22867	12x2x0,75	26,5	825	160
22868	14x2x0,75	28,5	920	170
22869	16x2x0,75	30,0	1030	180
22870	19x2x0,75	32,0	1170	195
22871	24x2x0,75	36,0	1445	215
22872	27x2x0,75	37,5	1580	225
22873	30x2x0,75	39,5	1710	235
22874	32x2x0,75	40,5	1820	245
22875	37x2x0,75	43,0	2035	260
22877	1x2x1,5	12,0	190	70
22879	1x4x1,5	13,5	260	80
22880	2x2x1,5	17,5	385	105
22881	3x2x1,5	18,0	425	110
22882	4x2x1,5	20,0	515	120
22883	7x2x1,5	23,5	755	140
22884	8x2x1,5	25,5	850	150
22885	10x2x1,5	28,5	1030	170
22886	12x2x1,5	30,5	1190	180
22887	14x2x1,5	32,0	1340	195
22888	16x2x1,5	34,0	1500	205
22889	19x2x1,5	36,5	1715	220
22890	24x2x1,5	41,5	2300	250
22891	27x2x1,5	43,5	2505	260
22892	30x2x1,5	46,0	2750	275
22893	32x2x1,5	47,0	2855	280
22894	37x2x1,5	50,0	3230	300

Other sizes on request.

Part number for oil resistant SHF2 cable:

4 + code from above table → 4xxxxx



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