

RFE-HF (i)

Armoured and individually screened 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 & 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
- 5. Armour**
 - drain wire copper (in all sizes)
 - copper wire braid, coverage > 94% IEC 60092-350
 - tinned copper wire braid on request
- 6. Sheath**
 - polyolefine plastic, SHF1 IEC 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	70	90	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(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				
22338	1x2x0,5	7,0	85	40
22342	2x2x0,5 Quad	7,5	115	45
22344	2x2x0,5	9,5	140	60
22346	3x2x0,5	10,0	165	60
22348	4x2x0,5	11,0	205	65
22350	7x2x0,5	13,0	295	75
22352	8x2x0,5	13,5	325	80
22354	10x2x0,5	15,5	420	95
22356	12x2x0,5	16,5	475	100
22358	14x2x0,5	17,5	540	105
22360	16x2x0,5	18,5	600	110
22362	19x2x0,5	19,5	685	120
22364	24x2x0,5	22,0	855	135
22366	27x2x0,5	23,0	940	140
22368	30x2x0,5	24,0	1020	145
22370	32x2x0,5	24,5	1075	150
22372	37x2x0,5	26,5	1225	160
22006	1x2x0,75	7,5	95	45
22008	2x2x0,75 Quad	8,5	125	50
22010	2x2x0,75	11,0	165	65
22012	4x2x0,75	13,0	235	75
22014	7x2x0,75	15,5	365	95
22016	8x2x0,75	16,5	400	100
22018	10x2x0,75	18,5	485	110
22020	12x2x0,75	19,5	550	115
22022	14x2x0,75	21,0	635	125
22024	19x2x0,75	23,5	810	140
22026	24x2x0,75	26,0	980	155
22028	32x2x0,75	30,0	1255	180
22050	1x2x1,5	10,0	150	60
22052	2x2x1,5 Quad	11,0	205	65
22054	2x2x1,5	14,5	255	85
22056	4x2x1,5	17,0	415	105
22058	7x2x1,5	20,5	615	120
22060	8x2x1,5	22,0	705	130
22062	10x2x1,5	25,0	860	150
22064	12x2x1,5	26,0	975	155
22066	14x2x1,5	28,0	1110	170
22068	19x2x1,5	32,0	1450	195
22070	24x2x1,5	36,0	1785	215
22072	32x2x1,5	41,0	2395	245

Other sizes on request.

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....)

Part number for oil resistant SHF2 cable:

4 + code from above table → 4xxxxx



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