

RFE-EMC(i)

Armoured and individually screened
instrumentation and communication cable
250V



DESIGN:

- Conductor**
 - stranded copper conductor IEC 60228, class 2
 - tinned stranded copper conductor on request
- Insulation**
 - XLPE plastic IEC 60092-360
- Twisted pair & individual screen**
 - two insulated cores twisted together to form a pair
 - plastic coated aluminium tape and a tinned copper drain wire
- Bedding**
 - filler tape
- Screen**
 - drain wire copper (in all sizes)
 - copper tape 100%
- Armour**
 - copper wire braid, coverage >94% IEC 60092-350
 - tinned copper wire braid on request
- 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. 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
Halogen-free	IEC 60754 series
Smoke emission	IEC 61034 series
Oil resistance (only SHF2)	IEC 60811-404 conditions according to 60092-360/SHF2
Transfer impedance	IEC 61196-1 (typical value 26dB over 1mΩ/m at 100MHz [20mΩ/m])

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

Core identification: See technical information section

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(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				
21949	1x2x0,5	8,5	105	50
21950	1x3x0,5	8,5	120	50
21951	1x4x0,5	9,0	140	55
21952	2x2x0,5	11,0	170	65
21953	3x2x0,5	11,5	200	70
21954	4x2x0,5	12,5	235	75
21955	7x2x0,5	14,5	330	85
21956	8x2x0,5	15,0	360	90
21957	10x2x0,5	17,0	465	100
21958	12x2x0,5	17,5	520	105
21959	14x2x0,5	19,0	590	115
21960	16x2x0,5	19,5	650	120
21961	19x2x0,5	21,0	735	125
21962	24x2x0,5	23,5	910	140
21963	27x2x0,5	24,5	1000	145
21964	30x2x0,5	25,5	1085	150
21965	32x2x0,5	26,0	1140	155
21966	37x2x0,5	27,5	1290	165
21911	1x2x0,75	9,0	120	55
21912	1x3x0,75	9,5	140	55
21913	1x4x0,75	10,0	150	60
21914	2x2x0,75	12,5	195	75
21915	3x2x0,75	13,0	235	80
21916	4x2x0,75	14,0	270	85
21917	7x2x0,75	17,0	410	100
21918	8x2x0,75	17,5	450	105
21919	10x2x0,75	20,0	540	120
21920	12x2x0,75	20,5	600	125
21921	14x2x0,75	22,0	690	135
21922	16x2x0,75	23,0	755	140
21923	19x2x0,75	25,0	870	150
21924	24x2x0,75	27,5	1045	165
21925	27x2x0,75	28,5	1145	170
21926	30x2x0,75	30,5	1270	180
21927	32x2x0,75	31,0	1330	185
21928	37x2x0,75	33,0	1490	195
21930	1x2x1,5	11,5	180	70
21931	1x3x1,5	12,0	205	70
21932	1x4x1,5	12,5	240	75
21933	2x2x1,5	16,0	295	95
21934	3x2x1,5	17,0	390	100
21935	4x2x1,5	18,5	465	110
21936	7x2x1,5	21,5	670	130
21937	8x2x1,5	23,0	760	140
21938	10x2x1,5	25,5	910	155
21939	12x2x1,5	27,5	1040	165
21940	14x2x1,5	29,0	1185	175
21941	16x2x1,5	31,0	1310	185
21942	19x2x1,5	33,5	1530	200
21943	24x2x1,5	37,0	1875	220
21944	27x2x1,5	39,0	2060	235
21945	30x2x1,5	41,0	2280	245
21946	32x2x1,5	42,5	2505	255
21947	37x2x1,5	45,0	2835	270

Other sizes on request.

Part number for oil resistant SHF2 cable:
4 + code from above table → 4xxxxx



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