

RFA-FRHF (i)

250 V

Fire-resistant collectively and individually screened pair instrumentation and communication cable



- Flame-retardant • Fire-resistant • Halogen-free • Low smoke emission • Oil resistant (SHF2 only)

CONDUCTOR	Stranded copper conductor, IEC 60228 Class 2
INSULATION	Mica tape XLPE
TWISTED PAIR & INDIVIDUAL SCREEN	Two insulated cores twisted together to form a pair Aluminium polyester tape and tinned copper drain wire
CABLING	Cabling, pairs twisted together, fillers or dummy cores included in select sizes based on product specifications to obtain symmetrical and round construction, covered by separator tape
COLLECTIVE SCREEN	Tinned copper drain wire (all sizes) Aluminium polyester tape, coverage 100%
SHEATH	Polyolefine SHF1, IEC 60092-360 Thermosetting polyolefine SHF2 on request Standard colour orange, SHF2 standard colour black, other colours on request
REFERENCE STANDARD	IEC 60092-376

APPLICATION

Fire-resistant collectively and individually screened pair instrumentation and communication cable. For fixed installation in most areas, and on open deck in ships and offshore units, especially when lightweight cables are needed. If the cable is exposed to direct sunlight, protective covering or cable with black outer sheath is recommended.

PHYSICAL PROPERTIES:

CORE IDENTIFICATION	Pair colours white and blue Pair identification with colour code and identification number
MARINE TYPE APPROVALS	ABS, BV, CCS, CRS, DNV, KR, LR, RINA

MAIN CHARACTERISTICS:

RATED VOLTAGE	150/250 V (300 V)
FIRE PERFORMANCE	IEC 60332-1-2 IEC 60332-3-22
FIRE-RESISTANT	IEC 60331-1 / IEC 60331-2 (180 min)
HALOGEN-FREE	IEC 60754 series
SMOKE EMISSION	IEC 61034 series
OIL RESISTANCE (SHF2 only)	IEC 60811-404 conditions acc. to 60092-360/SHF2
MIN. INSTALLATION TEMPERATURE	-15 °C
OPERATING TEMPERATURE	-40 - 80 °C fixed installation
MAX. CONDUCTOR TEMPERATURE	90 °C

ELECTRICAL PROPERTIES:

	0.75 mm ²	1.5 mm ²	Unit
Loop resistance (pair, max 20 °C)	52	24.4	ohm/km
Pair capacitance (nom. 1 KHz)	55	75	nF/km
Loop inductance (nom.)	0.6	0.7	mH/km
Insulation resistance (20 °C)	≥ 1500	≥ 1500	Mohm/km

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Part number	No. of conductors x Conductor area (mm ²)	Nominal outer Ø (mm)	Weight kg/km	Min. bending radius mm (fixed)
20664	1 x 2 x 0.75	8.5	80	65
20665	1 x 3 x 0.75	9.0	105	70
20666	2 x 2 x 0.75 Quad	9.5	130	75
20667	2 x 2 x 0.75	13.0	155	105
20668	3 x 2 x 0.75	14.0	190	110
20669	4 x 2 x 0.75	15.5	235	120
20671	7 x 2 x 0.75	18.5	365	150
20673	8 x 2 x 0.75	20.0	415	160
20675	10 x 2 x 0.75	23.0	525	185
20677	12 x 2 x 0.75	24.0	600	195
20679	14 x 2 x 0.75	25.5	680	205
20681	16 x 2 x 0.75	27.5	775	220
20683	19 x 2 x 0.75	29.5	890	235
20685	24 x 2 x 0.75	33.5	1135	265
21550	1 x 2 x 1.5	9.0	105	75
21551	1 x 3 x 1.5	10.5	160	80
21552	2 x 2 x 1.5 Quad	11.0	195	90
21553	2 x 2 x 1.5	14.5	230	115
21554	3 x 2 x 1.5	16.0	275	125
21555	4 x 2 x 1.5	17.5	340	140
21557	7 x 2 x 1.5	21.0	540	170
21559	8 x 2 x 1.5	23.0	630	180
21561	10 x 2 x 1.5	26.5	790	210
21563	12 x 2 x 1.5	27.5	910	220
21565	14 x 2 x 1.5	29.5	1040	235
21567	16 x 2 x 1.5	31.5	1195	250
21569	19 x 2 x 1.5	34.0	1400	275

Standard length 1000 m

SHF2 on request. Part number for SHF2 cables 4 + code from above table → 4xxxxx

Other sizes on request.