

RFE-FRHF (i)

250 V

Fire-resistant armoured 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/BEDDING	Cabling, pairs twisted together, fillers or dummy cores included in select sizes based on product specifications to obtain symmetrical and round construction. Bedding, lapped tape.
ARMOUR	Copper drain wire (all sizes) Copper wire braid, coverage > 90% Tinned copper wire braid on request Armour serves as collective screen
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 armoured and individually screened pair instrumentation and communication cable. For fixed installation in most areas, and on open deck in ships and offshore units. 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)
20546	1 x 2 x 0.75	9.0	110	55
20548	2 x 2 x 0.75 Quad	11.0	180	65
20550	2 x 2 x 0.75	14.0	215	85
20552	4 x 2 x 0.75	16.5	345	100
20554	7 x 2 x 0.75	20.0	490	120
20556	8 x 2 x 0.75	21.0	540	125
20558	10 x 2 x 0.75	24.0	670	145
20560	12 x 2 x 0.75	25.5	760	155
20562	14 x 2 x 0.75	27.0	855	165
20563	16 x 2 x 0.75	29.0	960	175
20564	19 x 2 x 0.75	31.0	1095	185
20566	24 x 2 x 0.75	34.5	1360	210
20603	1 x 2 x 1.5	10.5	150	65
20604	2 x 2 x 1.5 Quad	12.0	240	70
20605	2 x 2 x 1.5	16.0	325	95
20607	4 x 2 x 1.5	18.5	460	110
20609	7 x 2 x 1.5	22.5	695	135
20611	8 x 2 x 1.5	24.0	780	145
20613	10 x 2 x 1.5	27.5	955	165
20615	12 x 2 x 1.5	29.0	1110	175
20617	14 x 2 x 1.5	31.0	1250	185
20619	16 x 2 x 1.5	33.0	1410	200
20621	19 x 2 x 1.5	35.5	1615	210

Standard length 1000 m

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

Other sizes on request.