RFE-HF

250 V
Armoured pair instrumentation and communication cable

• FLAME-RETARDANT • HALOGEN-FREE • LOW SMOKE EMISSION • OIL RESISTANT (SHF2 only)

CONDUCTOR	Stranded copper conductor, IEC 60228 Class 2
INSULATION	XLPE
TWISTED PAIR	Two insulated cores twisted together to form a pair
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 Cross-linked polyolefine SHF2 on request Standard colour grey, other colours on request
REFERENCE STANDARD	IEC 60092-376

APPLICATION

Armoured pair instrumentation and communication cable. Designed to be used in areas demanding high mechanical and electromagnetic protection. 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
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

Subject to change without prior notice. See latest update on our webpage.
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ELECTRICAL PROPERTIES

	0.5 mm²	0.75 mm²	1.5 mm²	Unit
Loop resistance (pair, max 20 °C)	80	52	24.4	ohm/km
Pair capacitance (nom. 1 KHz)	55	50	60	nF/km
Loop inductance (nom.)	0.6	0.6	0.7	mH/km
Insulation resistance (20 °C)	≥ 1500	≥ 1500	≥ 1500	Mohm/km

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Part number	No. of conductors x Conductor area (mm²)	Nominal outer Ø (mm)	Weight kg/km	Min. bending radius mm (fixed)
20362	1 x 2 x 0.5	6.5	65	40
20361	1 x 3 x 0.5	7.0	80	40
20364	2 x 2 x 0.5 Quad	7.5	85	45
20363	2 x 2 x0.5	9.5	115	55
20365	3 x 2 x0.5	10.0	125	60
20366	4 x 2 x 0.5	10.5	145	65
20368	7 x 2 x 0.5	12.5	205	75
20369	8 x 2 x 0.5	13.0	230	80
20370	10 x 2 x 0.5	15.5	320	90
20371	12 x 2 x 0.5	16.0	350	95
20372	14 x 2 x 0.5	17.0	385	100
20373	16 x 2 x 0.5	18.0	425	110
20374	19 x 2 x 0.5	19.0	480	115
20376	24 x 2 x 0.5	21.5	585	130
20377	32 x 2 x 0.5	24.0	735	145
20378	37 x 2 x 0.5	25.5	815	155
20382	1 x 2 x 0.75	7.5	85	45
20381	1 x 3 x 0.75	8.0	95	45
20384	2 x 2 x 0.75 Quad	8.5	105	50
20383	2 x 2 x 0.75	11.0	140	65
20385	3 x 2 x 0.75	11.5	160	70
20386	4 x 2 x 0.75	12.5	195	75
20388	7 x 2 x 0.75	14.5	275	90
20389	8 x 2 x 0.75	16.0	355	95
20390	10 x 2 x 0.75	18.0	415	110
20391	12 x 2 x 0.75	19.0	460	115
20392	14 x 2 x 0.75	20.0	515	120
20393	16 x 2 x 0.75	21.5	590	130
20394	19 x 2 x 0.75	23.0	665	140
20396	24 x 2 x 0.75	25.5	805	155
20398	32 x 2 x 0.75	29.0	1015	175
20399	37 x 2 x 0.75	31.0	1165	185
20490	1 x 2 x 1.5	9.0	115	55
20572	1 x 3 x 1.5	10.0	135	60
20491	2 x 2 x 1.5 Quad	10.0	160	60
20492	2 x 2 x 1.5	13.5	220	80
---	3 x 2 x 1.5	14.0	250	85
20493	4 x 2 x 1.5	16.0	355	95
20494	7 x 2 x 1.5	19.0	505	115
20495	8 x 2 x 1.5	20.5	580	125
20496	10 x 2 x 1.5	23.5	705	140
20497	12 x 2 x 1.5	24.5	795	145
20498	14 x 2 x 1.5	26.0	895	155
20503	16 x 2 x 1.5	27.5	1005	165
20499	19 x 2 x 1.5	29.5	1145	175
20500	24 x 2 x 1.5	33.0	1430	200

Standard length 1000 m
SHF2 on request. Part number for SHF2 cables 4 + code from above table → 4xxxxx
Other sizes on request.

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