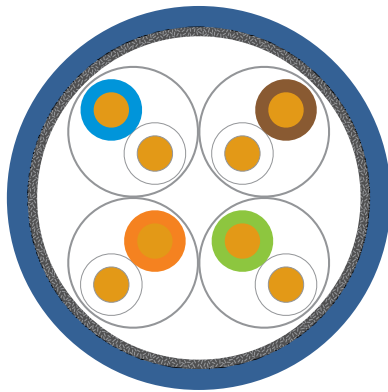


MarineSafe C7SF Cables

APPLICATION

Leviton MarineSafe Category 7 S/FTP cables exceed the Category 7 performance standards. They are specified to 600 MHz and rated to 1000 MHz and are suitable for use in all Class F structured wiring cable systems. The applications supported include 10 Gigabit Ethernet, Gigabit Ethernet, Power over Ethernet (PoE), and broadband video transmissions at frequencies up to 600 MHz. Leviton MarineSafe cables are third party certified to meet the requirements of Lloyd's Register Type Approval for marine and offshore environments.



COUNTRY OF ORIGIN

UK

WARRANTY INFORMATION

For Leviton product warranties, go to Leviton.com/ns/warranty

FEATURES & BENEFITS

- 23 AWG solid annealed copper wire
- 4 twisted pairs individually shielded and cabled together – providing EMI immunity
- Overall braided screen – for improved shielding efficiency, increased mechanical robustness, and heat dissipation
- Enhanced LSHF (Low Smoke Halogen Free) sheath
- CE marked for CPR
- Lloyd's Register type approved



STANDARDS & REGULATIONS

- ISO/IEC 11801 Class F
- IEC 61156-5
- EN 50173-1
- EN 50288-4-1
- ANSI/TIA 568.2-D
- IEEE 802.3 PoE Type 1, 2, 3, 4 (100 watts max)
- Cisco UPOE, UPOE+ (90 watts max)
- Power over HDBaseT™ PoH (95 watts max)

PRODUCT SPECIFICATIONS
MarineSafe C7SF Cables

TECHNICAL SPECIFICATIONS

Primary Electrical Parameters

Conductor loop resistance	Max 19 Ω/100m	14Ω/100m
Conductor resistance unbalance	Max. 2%	0.1%
Insulation resistance	>5GΩ.km	>50GΩ.km
Dielectric strength	2500 Vdc/2secs	Pass

Secondary Electrical Parameters

Velocity of propagation	<534nsec/100m @ 100MHz	413nsec/100m @ 100MHz
Delay skew	Max. 45nsec/100m @ 100MHz	4nsec/100m @ 100MHz
Mean Characteristic Impedance	100Ω +/- 5Ω @ 100MHz	100Ω ± 3Ω @ 100MHz
Coupling Attenuation	Type 1	90dB
Transfer Impedance	Grade 1	8mΩ/m @ 10MHz

MECHANICAL SPECIFICATIONS

Usage Characteristics

Category	Cat 7
Type of cable	S/FTP
Temp. (Installation)	0 °C to +50 °C (32 °F to +122 °F)
Temp. (Operating)	-20 °C to +75 °C (-4 °F to +167 °F)

TECHNICAL DATA - PHYSICAL

Max. tensile load (Installation)	10 kg
Segregation class	Class D
Min. bend radius (Installation)	8 x Outer Diameter
Min. bend radius (Operation)	4 x Outer Diameter
Field test NVP value	0.80

REACTION TO FIRE

Characteristic	IEC Standard	EN Standard	CPR Rating
Classification / EuroClass	—	—	Eca
Single Cable Flame Rating	IEC 60332-1-2	—	—
Bundled Cable Flame Rating	IEC 60332-3-24	—	—

PRODUCT SPECIFICATIONS
MarineSafe C7SF Cables



MarineSafe C7SF Cables

PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS

Freq. MHz	IL (dB)		NEXT (dB)		PSNEXT (dB)		ACRF (dB)		PSACRF (dB)	
	Standard	Typical	Standard	Typical	Standard	Typical	Standard	Typical	Standard	Typical
1	2.0	1.9	80.0	100.0	77.0	97.0	80.0	103.9	77.0	100.9
4	3.7	3.5	80.0	100.0	77.0	97.0	80.0	103.9	77.0	100.9
10	5.9	5.5	80.0	100.0	77.0	97.0	74.0	102.8	71.0	99.8
100	19.0	18.0	72.4	100.0	69.4	97.0	54.0	89.4	51.0	86.4
200	27.5	25.7	67.9	100.0	64.9	97.0	48.0	78.2	45.0	75.2
250	31.0	28.7	66.5	100.0	63.5	97.0	46.0	74.6	43.0	71.6
500	45.3	41.1	61.9	100.0	58.9	97.0	40.0	65.2	37.0	62.2
600	50.1	45.5	60.8	95.0	57.8	92.0	38.4	55.2	35.4	52.2
1000	—	60.9	—	89.0	—	86.0	—	50.8	—	47.8

PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED

Freq. MHz	RL (dB)		PSANEXT (dB)	PSAACRF (dB)
	Standard	Typical	Typical	Typical
1	20.0	27.0	100.0	98.1
4	23.0	33.1	100.0	96.5
10	25.0	34.0	100.0	94.5
100	20.1	39.3	100.0	92.2
200	18.0	38.4	100.0	82.0
250	17.3	34.4	100.0	73.9
500	17.3	28.7	100.0	70.6
600	17.3	27.1	100.0	57.0
1000	—	24.6	100.0	54.6

Note: The standard values shown are the most demanding taken from the relevant IEC, TIA and EN specifications. These standard values are the maximum permissible for Insertion loss and the minimum permissible for other parameters

PART NUMBER

Description	Color	Length (m)	Nominal Cable Diameter (mm)	Nominal Cable Weight (kg/km)	Packaging				Part No.
					Type	Reel Size Flange Dia. x Width (mm)	Gross Weight (kg/Item)	Items Per Pallet	
Cat 7 S/FTP Cable, MarineSafe	Blue†	500	7.2	54.3	Reel	400 x 390	29.7	12	MarineSafe UM10-500BU
Cat 7 S/FTP Cable, MarineSafe	Blue†	1000	7.2	54.3	Reel	600 x 405	60.8	4	MarineSafe UM10-1000BU

† Also available in a range of non-standard colors

For further support information, visit Leviton.com/ns/support

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