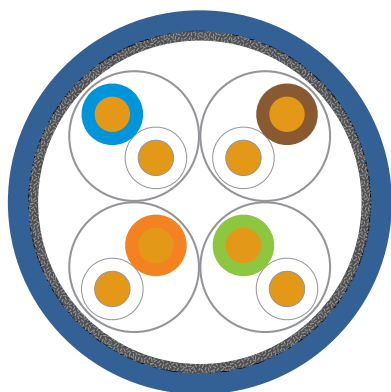


MarineSafe AC6SF Cables

APPLICATION

Leviton MarineSafe Category 6A S/FTP cables exceed the Category 6A performance standards. They are rated to 500 MHz and are suitable for use in all Class E_A 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 500 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](https://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 shield 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 E_A
- IEC 61156-5
- IEC 60754-2
- EN 50173-1
- EN 50288-10-1
- 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)

FIRE RATING

- IEC 60332-1-2
- IEC 60332-3-24
- IEC 60754-2
- CPR Rating (Eca)

PRODUCT SPECIFICATIONS

MarineSafe AC6SF Cables

MarineSafe AC6SF Cables

TECHNICAL SPECIFICATIONS		
Primary Electrical Parameters		
Conductor loop resistance	Max 19 Ω /100m	14 Ω /100m
Conductor resistance unbalance	Max. 2%	0.1%
Insulation resistance	>5G Ω .km	>50G Ω .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	100 Ω +/- 5 Ω @ 100MHz	100 Ω $\pm$ 3 Ω @ 100MHz
Coupling Attenuation	Type 1	90dB
Transfer Impedance	Grade 1	8m Ω /m @ 10MHz

MECHANICAL SPECIFICATIONS	
Usage Characteristics	
Category	Cat 6A
Type of cable	S/FTP
Temp. (Installation)	0 $^{\circ}$ C to +50 $^{\circ}$ C (+32 $^{\circ}$ F to +122 $^{\circ}$ F)
Temp. (Operating)	-20 $^{\circ}$ C to +75 $^{\circ}$ C (-4 $^{\circ}$ F to +167 $^{\circ}$ 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	—	EN 13501-6	Eca
Single Cable Flame Rating	IEC 60332-1-2	—	—
Bundled Cable Flame Rating	IEC 60332-3-24	—	—

PRODUCT SPECIFICATIONS
MarineSafe AC6SF 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	75.3	100.0	72.3	97.0	67.5	103.9	64.8	87.0
4	3.8	3.5	66.3	100.0	63.3	97.0	56.0	103.9	53.0	87.0
10	5.9	5.5	60.3	100.0	57.3	97.0	48.0	102.8	45.0	87.0
20	8.4	7.8	55.8	100.0	52.8	97.0	42.0	101.8	39.0	81.8
100	19.1	18.0	45.3	100.0	42.3	97.0	28.0	89.4	25.0	67.8
200	27.6	25.7	40.8	100.0	37.8	96.1	22.0	78.2	19.0	61.8
250	31.1	28.7	39.3	100.0	36.3	95.7	20.0	74.6	17.0	59.8
500	45.3	41.1	34.8	100.0	31.8	92.5	14.0	65.2	11.0	53.8
550	—	43.1	—	98.2	—	88.9	—	62.5	—	53.0

PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED

Freq. MHz	RL (dB)		PSANEXT (dB)		PSAACRF (dB)	
	Standard	Typical	Standard	Typical	Standard	Typical
1	20.0	27.0	67.0	100.0	67.0	98.1
4	23.0	33.1	67.0	100.0	66.2	96.5
10	25.0	34.0	67.0	100.0	58.2	94.5
20	25.0	34.3	67.0	100.0	52.2	92.2
100	20.1	39.3	62.5	100.0	38.2	82.0
200	18.0	38.4	58.0	100.0	32.2	73.9
250	17.3	34.4	56.5	100.0	30.2	70.6
500	17.3	28.7	52.0	100.0	24.2	57.0
550	—	27.8	—	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 6A S/FTP Cable, MarineSafe	Blue†	500	7.2	54.3	Reel	400 x 390	29.7	12	MarineSafe AC6S/FTP-500BU
Cat 6A S/FTP Cable, MarineSafe	Blue†	1000	7.2	54.3	Reel	600 x 405	60.8	4	MarineSafe AC6S/FTP-1000BU

† Also available in a range of non-standard colors

For further support information, visit [Leviton.com/ns/support](https://leviton.com/ns/support)

Page 3 of 3

USA
Network Solutions Headquarters
+1 (800) 722 2082
infoUSA@leviton.com

Leviton Cable (formerly Berk-Tek)
+1 (800) 237 5835 | infoUSA@leviton.com

Asia Pacific
+852 3620 2602
infoAPAC@leviton.com

Canada
+1 (800) 461 2002
infoCanada@leviton.com

Europe
+44 (0) 1592 772124
infoEurope@leviton.com

Latin America
MX: +52 (55) 2128 6286
LATAM: +52 (55) 2333 5963
infoLATAM@leviton.com

Middle East & Africa
+971 (4) 247 9800
infoMEA@leviton.com

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