

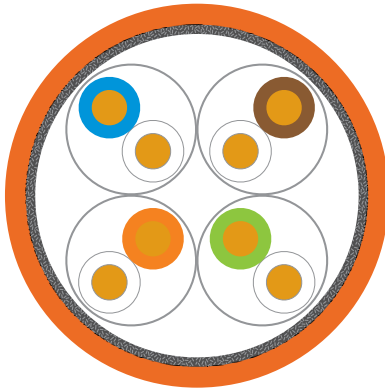
PRODUCT SPECIFICATIONS

AC7SF Cat 7A S/FTP Euroclass B2ca Cables

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APPLICATION

AC7SF Cat 7A S/FTP cables exceed Category 7A performance standards. They are specified to 1000MHz, rated to 1200MHz, and are suitable for use in all Class F_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 1000MHz.



FEATURES & BENEFITS

- 22 AWG solid annealed copper wire
- 4 twisted pairs individually screened and cabled together providing EMI immunity
- Overall braided screen for improved shielding efficiency, increased mechanical robustness and heat dissipation
- Green HFFR-LS material enables the cable to meet the requirements of the Construction Products Regulation (CPR) Euroclass B2ca
- Designed and manufactured in a carbon neutral facility in the UK
- Delivered in 100% recyclable packaging

STANDARDS & REGULATIONS

- ISO/IEC 11801 Class F_A, IEC 61156-5
- EN50173-1 and EN 50288-9-1
- 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)

COUNTRY OF ORIGIN

UK

WARRANTY INFORMATION

For Leviton product warranties, go to [Leviton.com/ns/warranty](https://leviton.com/ns/warranty)

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TECHNICAL SPECIFICATIONS

Primary Electrical Properties (20 °C)

CHARACTERISTIC	SPECIFICATION	TYPICAL PERFORMANCE
Conductor Loop Resistance	Max 19 Ω/100m	12Ω/100m
Conductor Resistance Unbalance	Max 2%	0.1%
Insulation Resistance	>5GΩ.km	>50GΩ.km
Dielectric Strength	2500 Vdc/2secs	Pass

CHARACTERISTICS

Installation Characteristics

Min Bend Radius (Installation)	8 x Outer Diameter
Min Bend Radius (Operation)	4 x Outer Diameter
Field Test NVP Value	0.80
Temp. (Installation)	0 °C to +50 °C
Temp. (Operating)	-20 °C to +75 °C
Segregation Class	Class D

TECHNICAL SPECIFICATIONS

Secondary Electrical Properties (20 °C)

CHARACTERISTIC	SPECIFICATION	TYPICAL PERFORMANCE
Velocity of Propagation	<534nsec/100m @ 100MHz	413nsec/100m @ 100MHz
Delay Skew	Max 25nsec/100m @ 100MHz	4nsec/100m @ 100MHz
Characteristic Impedance (Fitted)	100Ω +/- 5Ω @ 100MHz	100Ω ± 3Ω @ 100 MHz
Coupling Attenuation	Type 1	90dB
Transfer Impedance	Grade 1	7mΩ/m @ 10MHz

REACTION TO FIRE

Characteristics	IEC Standard	EN Standard	CPR Rating
Single Cable Flame Rating	IEC 60332-3-24	EN 60332-3-24	Pass
Classification / EuroClass	—	EN 13501-6	B2ca s1a d1 a1

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TYPICAL PERFORMANCE TRANSMISSION CHARACTERISTICS								
Freq.	IL (dB)		RL (dB)		NEXT (dB)		PSNEXT (dB)	
MHz	Standard	Typical	Standard	Typical	Standard	Typical	Standard	Typical
1	2.0	1.9	20.0	30.0	78.0	100.0	75.0	90.0
4	3.7	3.4	23.0	33.0	78.0	100.0	75.0	90.0
10	5.8	5.3	25.0	36.0	78.0	100.0	75.0	90.0
100	18.5	16.7	20.1	35.1	75.4	100.0	72.4	90.0
250	29.7	26.9	17.3	32.3	69.4	97.2	66.4	88.0
500	42.8	38.7	17.3	31.3	64.9	91.8	61.9	83.5
600	47.1	42.7	17.3	30.5	63.7	90.4	60.7	82.3
1000	61.9	56.2	15.1	28.3	60.4	86.4	57.4	79.0
1200	—	62.1	—	27.5	—	85.0	—	77.8

TYPICAL PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED								
Freq.	ACRF (dB)		PSACRF (dB)		PSANEXT (dB)		PSAACRF (dB)	
MHz	Standard	Typical	Standard	Typical	Standard	Typical	Standard	Typical
1	78.0	100.0	75.0	90.0	67.0	98.1	67.0	88.1
4	78.0	99.0	75.0	90.0	67.0	96.6	67.0	86.6
10	78.0	91.0	75.0	84.5	67.0	94.7	67.0	84.7
100	65.3	71.0	62.3	64.5	67.0	83.3	53.2	73.3
250	57.3	63.0	54.3	56.5	67.0	70.4	45.2	61.2
500	51.3	57.0	48.3	50.5	67.0	53.1	39.2	44.8
600	49.7	55.4	46.7	48.9	65.8	47.7	37.6	39.6
1000	45.3	51.0	42.3	44.5	62.5	30.2	33.2	22.8
1200	—	49.4	—	42.9	—	22.8	—	15.7

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	
AC7SF Cat 7 S/FTP Cable, Euroclass B2ca	Orange†	500	7.2	61.4	Reel	400 x 390	33.2	12	UM12-B2ca-500OR
AC7SF Cat 7 S/FTP Cable, Euroclass B2ca	Orange†	1000	7.2	61.4	Reel	600 x 405	68.0	4	UM12-B2ca-1000OR

Also available in a range of non-standard colors

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

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