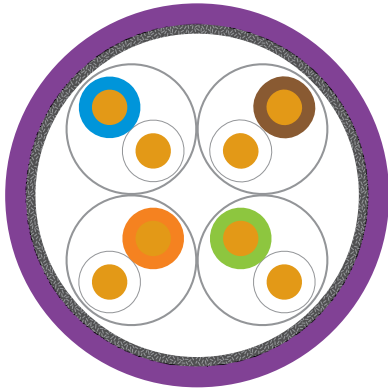


AC7SF 7A S/FTP Euroclass Eca Cables

APPLICATION

Leviton AC7SF 7A S/FTP cables exceed Category 7A performance standards. They are specified to 1000MHz and 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
- Gas injection foamed polyolefin core insulation – offering superior signal speed
- 4 twisted pairs individually screened and cabled together – providing EMI immunity
- Overall braided screen – for improved shielding efficiency, increased mechanical robustness and heat dissipation
- Available in a range of jacket materials – to suit a variety of installation environments and color coded for identification
- HFFR-LS versions meet the requirements of the Construction Products Regulation (CPR) Euroclass Eca

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)

PRODUCT SPECIFICATIONS

AC7SF 7A S/FTP Euroclass Eca Cables

PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS

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

PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED

Freq. MHz	ACRF (dB)		PSACRF (dB)		PSA NEXT (dB)		PSAACRF (dB)	
	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
- N/A – Not Applicable

PRODUCT SPECIFICATIONS

AC7SF 7A S/FTP Euroclass Eca Cables

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

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

TECHNICAL SPECIFICATIONS

Secondary Electrical Properties (20 °C)

CHARACTERISTIC	SPECIFICATION	TYPICAL PERFORMANCE
Velocity of Propagation	<534nsec/100m @ 100MHz	413nsec/100m @ 100MHz
Delay Skew	Max 45nsec/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 60332-1-2	EN 60332-1-2	Pass
Classification / EuroClass	—	EN 13501-6	Eca

STANDARD PACKAGING SPECIFICATIONS – REELS

Part Number	Packaging Length (m)	Color	Nominal Cable Diameter (mm)	Nominal Cable Weight (kg/km)	Reel Size Flange Dia. x Width (mm)	Gross Weight (kg/Item)	Items Per Pallet
UM12-HF1-Eca-500VT	500	Violet	7.55	59.9	465 x 390	33.0	6
UM12-HF1-Eca-1000VT	1000	Violet	7.55	59.9	600 x 405	66.4	4

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

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