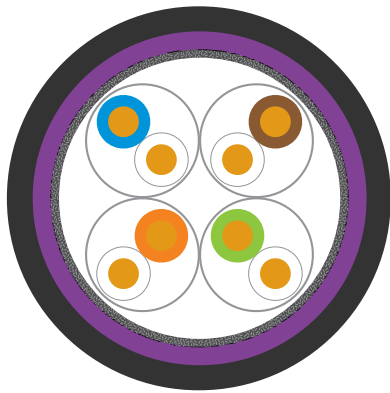


External Cables C7SF

APPLICATION

Leviton Category 7 S/FTP External cables exceed 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 transmission at frequencies as high as 600 MHz.



COUNTRY OF ORIGIN

UK

WARRANTY INFORMATION

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

FEATURES & BENEFITS

- Black Polyethylene outer jacket offers superior UV and water resistance
- Violet HFFR-LS (Halogen-Free Flame Retardant Low-Smoke) inner jacket
- Gas injection foamed Polyolefin core insulation offers superior signal speed
- 23 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
- Designed for installation in an external protected environment
- Designed and manufactured in a carbon neutral facility in the UK

STANDARDS & REGULATIONS

- IEC 61156-5
- 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

External Cables C7SF

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
External Cables C7SF



External Cables C7SF

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, External	Black	500	8.2	61.9	Reel	465 x 390	33.9	6	UM10-HF1-X-500BK†
Cat 7 S/FTP Cable, External	Black	1000	8.2	61.9	Reel	750 x 405	70.8	2	UM10-HF1-X-1000BK†

† Only available in Europe and Middle East regions

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

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