

Category 7 S/FTP External Cable

Datasheet: GD063256v10



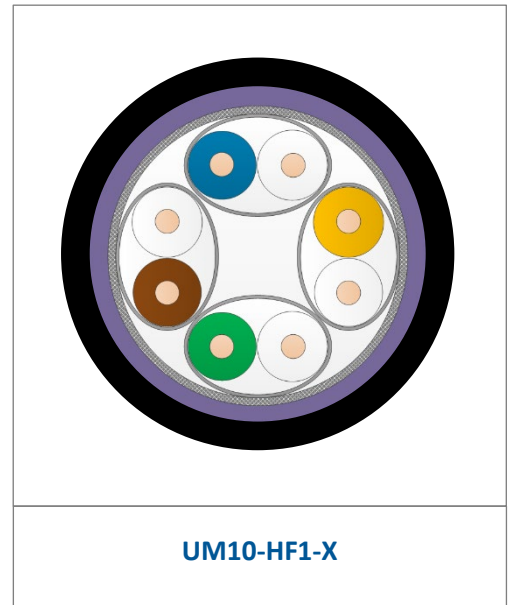
APPLICATION

Leviton Category 7 S/FTP External cables exceed Category 7 performance standards. They are specified to 600MHz and rated to 1000MHz 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, and broadband video transmission at frequencies as high as 600MHz.

FEATURES AND BENEFITS

- Black Polyethylene outer jacket offers superior UV and water resistance
- Violet HFFR-LS* 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
- Included in the Leviton Limited 25-Year System Warranty when used in conjunction with Leviton copper connectivity. System warranties are available for qualified projects installed by certified contractors
- Designed and manufactured in a carbon neutral facility in the UK

* Halogen Free Flame Retardant – Low Smoke



STANDARDS

- Designed and constructed to give optimum electrical performance to the following standards:
 - IEC 61156-5
 - EN 50288-4-1
- Recommended for PoE standards:
 - IEEE 802.3bt PoE Type 1 (15.4 Watts) formerly 802.3af
 - IEEE 802.3bt PoE Type 2 (30 Watts) formerly 802.3at
 - IEEE 802.3bt PoE Type 3 (60 Watts)
 - IEEE 802.3bt PoE Type 4 (90 Watts)
 - Cisco UPoE (60 Watts)
 - Cisco UPoE+ (90 Watts)
 - Power over HDBaseT™ PoH (95 Watts)

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REACTION TO FIRE

Material Identifier	HF1-X
Material Description	Inner – HFFR-LS Outer - Polyethylene
Flammability Rating	N/A – External Only
Classification / EuroClass	N/A – External Only

PRIMARY ELECTRICAL PARAMETERS

CHARACTERISTIC	SPECIFICATION	TYPICAL PERFORMANCE @ 20°C
Conductor Loop Resistance	Max 19 Ω/100m	14 Ω/100m
Conductor Resistance Unbalance	Max 2%	0.1%
Insulation Resistance	>5GΩ.km	>50GΩ.km
Dielectric Strength	2500 Vdc/2secs	Pass

SECONDARY ELECTRICAL PARAMETERS

CHARACTERISTIC	SPECIFICATION	TYPICAL PERFORMANCE @ 20°C
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

ELECTRICAL PERFORMANCE

Frequency (MHz)		1	4	10	100	200	250	500	600	1000
Insertion Loss (dB/100m)	Standard (Max)	2.0	3.7	5.9	19.0	27.5	31.0	45.3	50.1	N/A
	Typical	1.9	3.5	5.5	18.0	25.7	28.7	41.1	45.5	60.9
NEXT (dB)	Standard (Min)	80.0	80.0	80.0	72.4	67.9	66.5	61.9	60.8	N/A
	Typical	100.0	100.0	100.0	100.0	100.0	100.0	100.0	95.0	89.0
PSNEXT (dB)	Standard (Min)	77.0	77.0	77.0	69.4	64.9	63.5	58.9	57.8	N/A
	Typical	97.0	97.0	97.0	97.0	97.0	97.0	97.0	92.0	86.0
ACR-F (dB)	Standard (Min)	80.0	80.0	74.0	54.0	48.0	46.0	40.0	38.4	N/A
	Typical	103.9	103.9	102.8	89.4	78.2	74.6	65.2	55.2	50.8
PSACR-F (dB)	Standard (Min)	77.0	77.0	71.0	51.0	45.0	43.0	37.0	35.4	N/A
	Typical	100.9	100.9	99.8	86.4	75.2	71.6	62.2	52.2	47.8
Return Loss (dB)	Standard (Min)	20.0	23.0	25.0	20.1	18.0	17.3	17.3	17.3	N/A
	Typical	27.0	33.1	34.0	39.3	38.4	34.4	28.7	27.1	24.6
PSANEXT (dB)	Typical	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PSAACR-F (dB)	Typical	98.0	96.4	94.3	81.5	73.2	68.8	55.9	51.1	34.7

- 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

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INSTALLATION

Temperature (Installation)	0°C to +50°C
Temperature (Operation)	-20°C to +75°C
Max Tensile Load (Installation)	10kg
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

STANDARD PACKAGING SPECIFICATIONS - REELS

Part Number	Packaging Length (m)	Color	Nominal Cable Diameter (mm)	Nominal Cable Weight (kg/km)	Reel Size Flange Diameter x Width (mm)	Gross Weight (kg/Item)	Items Per Pallet
UM10-HF1-X-500BK*	500	Black	8.2	61.9	465 x 390	33.9	6
UM10-HF1-X-1000BK*	1000	Black	8.2	61.9	750 x 405	70.8	2

* Only available in Europe and Middle East regions

*“Leviton is **dedicated to designing, developing and manufacturing sustainable high-performance structured cabling and speciality cabling solutions.**”*

The information contained in this document is valid and correct at the time of issue. Leviton reserves the right to modify details without notice in light of subsequent standard/specification changes and ongoing technical developments.