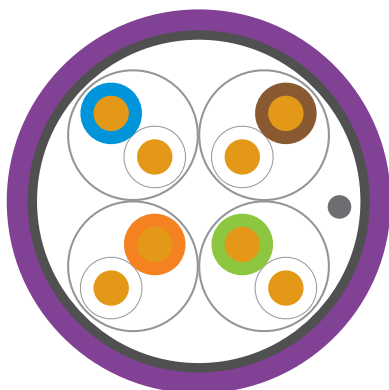


C6FF Cat 6 F/FTP Euroclass Eca Cables

APPLICATION

Leviton Cat 6 F/FTP cables exceed Category 6 performance standards. They are rated to 250MHz and are suitable for use in all Class E structured wiring cable systems. The applications supported include Gigabit Ethernet, Power over Ethernet (PoE), and broadband video transmissions at frequencies as high as 250MHz.



FEATURES & BENEFITS

- 23 AWG solid annealed copper wire
- 4 twisted pairs individually screened and cabled together – providing EMI immunity
- Overall aluminum polyester screen – for improved shielding efficiency and increased heat dissipation
- Available in a range of jacket materials – to suit a variety of installation environments and color coded for identification
- Designed to support all Class E protocols including Gigabit Ethernet
- HFFR-LS (Halogen Free Flame Retardant – Low Smoke) versions meet the requirements of the Construction Products Regulation (CPR) Euroclass Eca
- CE marked for CPR
- Delivered in 100% recyclable packaging

STANDARDS & REGULATIONS

- ISO/IEC 11801 Class E
- IEC 61156-5
- EN 50173-1
- EN 50288-5-1
- ANSI/TIA 568.2
- IEEE 802.3 PoE Type 1, 2, 3, 4 (100 watts max)
- Cisco UPOE, UPOE+ (90 watts max)

COUNTRY OF ORIGIN

UK

WARRANTY INFORMATION

For Leviton product warranties, go to Leviton.com/ns/warranty

PRODUCT SPECIFICATIONS

C6FF Cat 6 F/FTP Euroclass Eca Cables

INSTALLATION CHARACTERISTICS

Conductor	23 AWG bare copper
Category	Cat 6
Type of cable	F/FTP
Min. Bend Radius (Installation)	8 x Outer Diameter
Min. Bend Radius (Operational)	4 x Outer Diameter
Max Tensile Load (Installation)	10 kg
Field test NVP value	0.80
Temp. (Installation):	0 °C to +50 °C (+32 °F to +122 °F)
Temp. (Operating):	-20 °C to +75 °C (-4 °F to +167 °F)
Segregation Class	Class D

HIGH SPEED DATA AND POWER APPLICATIONS

IEEE 802.3	2.5/5GBASE-T (2.5/5 Gb/s), 1000BASE-T (1 Gb/s), 100BASE-TX (100 Mb/s), 10BASE-T (10 Mb/s)
IEEE 802.3	PoE Types 1, 2, 3, and 4

TECHNICAL SPECIFICATIONS

Primary Electrical Parameters	Specification	Typical Performance
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. 45 nsec/100m @ 100MHz	4nsec/100m @ 100MHz
Mean Characteristic Impedance	100Ω +/- 5Ω @ 100MHz	100 Ω ± 3Ω @ 100MHz
Coupling Attenuation	Type 1b	84dB
Transfer Impedance	Grade 2	11mΩ/m @ 10MHz

REACTION TO FIRE

Material Identifier	HF1	HF3
Classification / EuroClass	Eca	Eca
Cable Flame Rating	IEC 60332-1-2	IEC 60332-3-24
Smoke Emission	IEC 61034-1 & 2	IEC 61034-1 & 2
Acid Gas Emission	IEC 60754-2	IEC 60754-2

PRODUCT SPECIFICATIONS
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PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS												
Freq.	IL (dB)		RL (dB)		NEXT (dB)		PSNEXT (dB)		ACRF (dB)		PSACRF (dB)	
	Standard	Typical	Standard	Typical	Standard	Typical	Standard	Typical	Standard	Typical	Standard	Typical
MHz												
1	2.0	1.9	20.0	27.0	75.3	100.0	72.3	97.0	67.8	90.0	64.8	87.0
4	3.8	3.5	23.0	30.0	66.3	100.0	63.3	97.0	58.0	90.0	55.0	87.0
10	6.0	5.5	25.0	30.0	60.3	100.0	57.3	97.0	50.0	90.0	47.0	87.0
20	8.5	7.8	25.0	30.0	55.8	100.0	52.8	97.0	44.0	84.8	41.0	81.8
100	19.8	18.0	20.1	25.1	45.3	94.3	42.3	91.3	30.0	70.8	27.0	67.8
200	29.0	26.1	18.0	23.0	40.8	88.9	37.8	85.9	24.0	64.8	21.0	61.8
250	32.8	29.4	17.3	22.3	39.3	87.1	36.3	84.1	22.0	62.8	19.0	59.8
500	—	43.0	—	20.2	—	81.7	—	78.7	—	56.8	—	53.8
550	—	45.4	—	19.9	—	81.0	—	78.0	—	56.0	—	53.0

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

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PRODUCT SPECIFICATIONS
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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
C6F/FTP-HF1-Eca-500VT	500	Violet†	7.1	49.7	400 x 390	27.4	12
C6F/FTP-HF1-Eca-1000VT	1000	Violet†	7.1	49.7	600 x 405	56.2	4
C6F/FTP-HF1-Eca-D500VT††	500	Violet†	7.1 x 14.3	99.5	600 x 405	56.2	4
C6F/FTP-HF3-Eca-500BU	500	Violet†	7.5	57.9	465 x 390	31.9	6
C6F/FTP-HF3-Eca-1000BU	1000	Violet†	7.5	57.9	600 x 405	64.4	4

†Also available in a range of non-standard colors
†† 'D' denotes Duplex Cable

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

USA Network Solutions Headquarters +1 (800) 722 2082 infoUSA@leviton.com BERK-TEK™ Cable +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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