

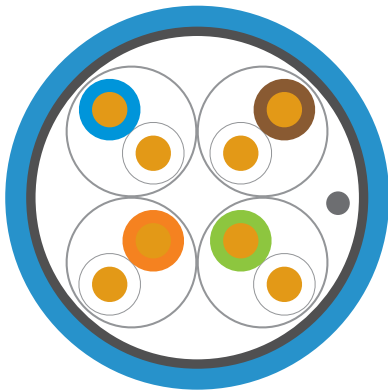
PRODUCT SPECIFICATIONS

C6FF Cat 6 F/FTP Euroclass Dca Cables

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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
- Designed to support all Class E protocols including Gigabit Ethernet
- HFFR-LS (Halogen Free Flame Retardant – Low Smoke) material meets the requirements of the Construction Products Regulation (CPR) Euroclass Dca
- Blue jacket to identify Euroclass level Dca
- 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](https://leviton.com/ns/warranty)

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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/100 m	14 Ω/100 m
Conductor resistance unbalance	Max. 2%	0.1%
Insulation resistance	>5 GΩ - km	>50 GΩ.km
Dielectric strength	2500 V DC for 2 s	Pass
Secondary Electrical Parameters		
Propagation delay	<534 ns/100 m @ 100 MHz	413 ns/100 m @ 100 MHz
Delay skew	Max. 45 ns/100 m @ 100 MHz	4 ns/100 m @ 100 MHz
Mean Characteristic Impedance	100 Ω +/- 5 Ω @ 100 MHz	100 Ω ± 3 Ω @ 100 MHz
Coupling Attenuation	Type 1b	84 dB
Transfer Impedance	Grade 2	11mΩ/m @ 10 MHz

REACTION TO FIRE

Characteristic	IEC Standard	EN Standard	CPR Rating
Classification / Euroclass	—	EN 13501-6	Dca s1a d2 a1
Single Cable Flame Rating	IEC 60332-1-2	—	Pass
Bundled Cable Flame Rating	—	EN 50399 20.5kW	Dca
Smoke Production	—	EN 50399	s1a
Flaming Droplets/Particles	—	EN 50399	d2
Acid Gas Emission/Acidity	—	EN 50267-2-3	a1

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PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS												
Freq.	IL (dB)		RL (dB)		NEXT (dB)		PSNEXT (dB)		ACRF (dB)		PSACRF (dB)	
MHz	Standard	Typical	Standard	Typical	Standard	Typical	Standard	Typical	Standard	Typical	Standard	Typical
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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STANDARD PACKAGING SPECIFICATIONS							
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-Dca-500BU	500	Blue†	7.1	50.4	465 x 390	27.7	12
C6F/FTP-Dca-1000BU	1000	Blue†	7.1	50.4	600 x 325	56.4	6

†Also available in a range of non-standard colors

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