

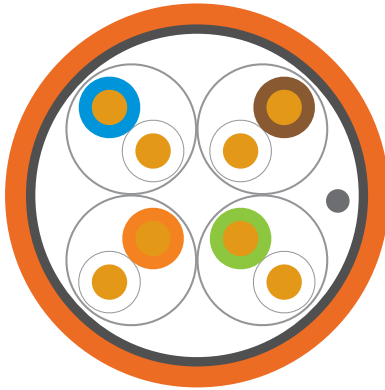
PRODUCT SPECIFICATIONS

C6FF Cat 6 F/FTP Euroclass B2ca Cables

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APPLICATION

Leviton 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 up to 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
- Enhanced HFFR-LS jacket enables the cable to meet the requirements of the Construction Products Regulation (CPR) Euroclass B2ca
- Orange jacket to identify Euroclass level B2ca

STANDARDS & REGULATIONS

- ISO/IEC 11801 Class E
- IEC 61156-5
- EN 50173-1 and 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)
- 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)

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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/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	100Ω ± 3Ω @ 100MHz
Coupling Attenuation	Type 1b	84 dB
Transfer Impedance	Grade 2	11mΩ/m @ 10MHz

REACTION TO FIRE			
Characteristic	IEC Standard	EN Standard	CPR Rating
Classification / Euroclass	—	EN 13501-6	B2ca s1a d1 a1
Single Cable Flame Rating	IEC 60332-1-2	EN 60332-1-2	Pass
Smoke Production	—	EN 61034	Pass
Flaming Droplets/Particles	—	EN 50399	d1
Acid Gas Emission/Acidity	—	EN 60754	Pass

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PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS												
Freq. MHz	IL (dB)		RL (dB)		NEXT (dB)		PSNEXT (dB)		ACRF (dB)		PSACRF (dB)	
	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	55.8	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-B2ca-500OR	500	Orange†	7.0	50.2	400 x 390	27.6	12
C6F/FTP-B2ca-1000OR	1000	Orange†	7.0	50.2	600 x 325	56.2	6

†Also available in a range of non-standard colors

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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