

620432

Category 6 F/UTP Cable, non-plenum, beige jacket, 4 pair count, 1000 ft (305 m) length, reel

Product Classification

Regional Availability	North America
Portfolio	LITANG®
Product Type	Twisted pair cable

General Specifications

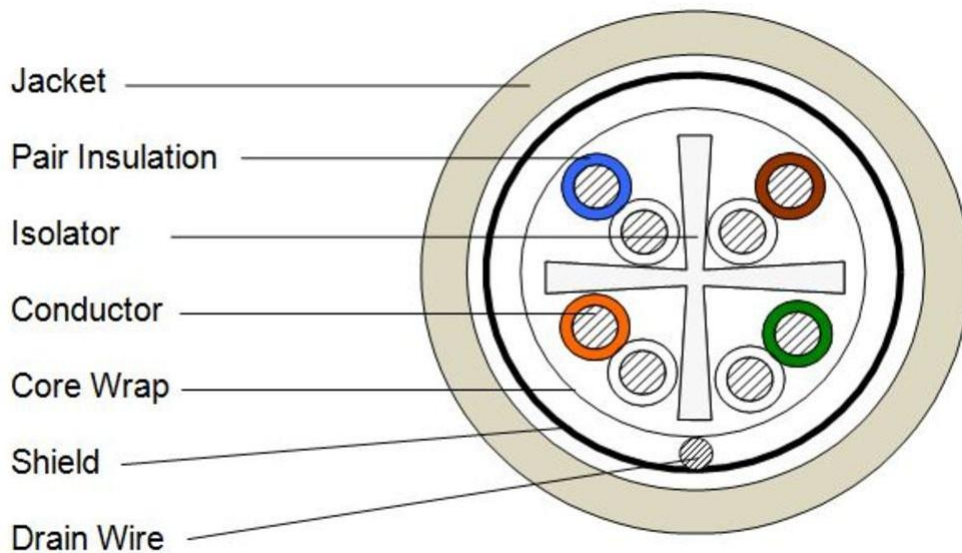
Product Number	620432
ANSI/TIA Category	6
Cable Component Type	Horizontal
Cable Type	F/UTP (shielded)
Conductor Type, singles	Solid
Conductors, quantity	8
Drain Wire Type	Solid
Jacket Color	Beige
Note	All electrical transmission tests include swept frequency measurements
Pairs, quantity	4
Separator Type	Isolator
Transmission Standards	ANSI/TIA-568-C.2 CENELEC EN 50288-6-1 ISO/IEC 11801 Class E

Dimensions

Cable Length	1000 ft 304.8 m
Diameter Over Jacket, nominal	0.288 in 7.315 mm
Jacket Thickness	0.02 in 0.508 mm
Conductor Gauge, singles	23AWG
Drain Wire Gauge	26AWG

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Cross Section Drawing



Electrical Specifications

Characteristic Impedance	100 ohm
dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	8 ohms/100 m 2.438 ohms/100 ft
Delay Skew, maximum	45 ns
Dielectric Strength, minimum	1500 Vac 2500 Vdc
Mutual Capacitance at Frequency	5.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	68 %
Operating Frequency, maximum	250 MHz
Operating Voltage, maximum	80 V

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Remote Powering

Fully complies with the recommendations set forth by IEEE 802.3bt (Type 4) for the safe delivery of power over LAN cable when installed according to ISO/IEC 14763-2, CENELEC EN 50174-1, CENELEC EN 50174-2 or TIA TSB-184-A

Safety Voltage Rating

300 V

Enterprise Copper Cable Performance

Frequency (MHz)	IL, typical	NEXT, typical	ACR, typical	PSNEXT, typical	PSACR, typical	ACRF, typical	PSACRF, typical	RL, typical
1.0	1.7	87.7	85.9	85.3	83.6	88.5	85.8	31.2
4.0	3.3	82	78.7	79.8	76.4	80.8	79	32.7
8.0	4.7	76.7	72	74.6	69.9	75	73.2	35.3
10.0	5.2	74.4	69.1	72.5	67.3	73	71.2	36.5
16.0	6.7	71.2	64.6	69.3	62.6	69.2	67.2	36.6
20.0	7.5	69.8	62.3	67.9	60.4	67.3	65.4	36.3
25.0	8.4	68.4	60.1	66.4	58.1	65.3	63.5	35.6
31.25	9.3	66.9	57.6	64.9	55.6	63.4	61.6	33.9
62.5	13.3	62.8	49.5	60.8	47.6	57.3	55.4	31.3
100.0	16.9	59	42.2	57.1	40.3	53.4	51.6	27.1
155.0	21.1	55.6	34.5	53.8	32.7	49.5	47.5	23.7
200.0	24.1	52.1	28	50.6	26.6	47.6	45.5	21.8
250.0	27	51.1	24.1	49.4	22.4	45.3	43.2	20.1
300.0	29.7	50.1	20.4	48.3	18.6	43.5	41.6	19.1
350.0	32.2	48.8	16.7	47	14.8	42.3	40.2	18.1
400.0	34.5	47.3	12.7	45.6	11	40.9	38.9	17.2
500.0	39	44	5	42.5	3.5	39	36.9	15.9
550.0	41.1	43.2	2.1	41.6	0.5	36.2	33.8	15.5
650.0	45	43.4	-1.6	41.5	-2.5	34.6	32.3	15

Material Specifications

Conductor Material	Bare copper
Drain Wire Material	Tinned copper
Insulation Material	Polyolefin
Jacket Material	PVC
Separator Material	Polyolefin
Shield (Tape) Material	Polyester/Aluminum shield

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Mechanical Specifications

Pulling Tension, maximum 25 lb | 11.34 kg

Environmental Specifications

Installation temperature 0 °C to +60 °C (+32 °F to +140 °F)

Operating Temperature -20 °C to +60 °C (-4 °F to +140 °F)

Environmental Space Non-plenum

Flame Test Method CMR | NEC Article 800 | UL 1666 | UL 444

Packaging and Weights

Cable weight 34.1 lb/kft | 4.714 kg/km

Packaging Type Reel

Regulatory Compliance/Certifications

Agency

ISO 9001:2015

Classification

Designed, manufactured and/or distributed under this quality management system

