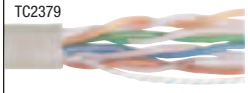
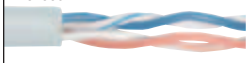
Category 5E

TC2379



TC2380



TC2581

TPC2567

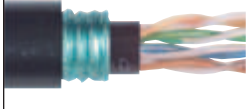
TC58141

TPC58142

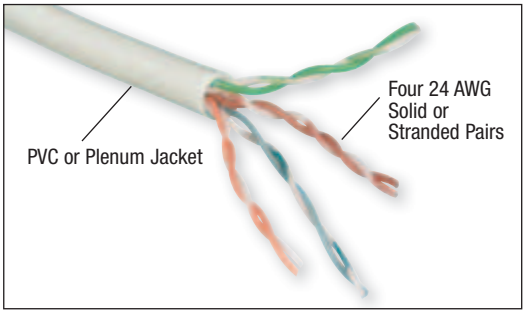
Outdoor Category 5E

TOAC2004

TOBC2004



RoHS Category 5E to 100 MHz - Hi-Speed UTP for LAN and Emerging Applications



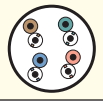
Unshielded twisted pair has become the cabling of choice in voice and data applications. Low cost and easy installation are driving popularity. As new higher speed applications emerge, higher performance from cabling systems is required. Category 5E performance requirements add margin over existing Category 5 specifications to support more robust, bi-directional signaling schemes over all four pairs. Applications supported include: 10Base-T, 100Base-T, 100Base-TX, 1000Base-T, 100BaseVG-Any-LAN, 155Mbps ATM and a number of emerging multimedia applications.

Category 5E Bulk Cable

EIA568

Twisted Pair Pinning: 1 & 2, 3 & 6, 4 & 5, 7 & 8

Category 5E Stranded 4 Pair Cable



Item #	Description	Color	1-9	10-24	25-99	100-249	250-499

FREQUENCY	NEAR END CROSSTALK (NEXT)	POWER SUM NEXT LOSS	EQUAL LEVEL FAR END CROSSTALK (EFLEXT)	POWER SUM EFLEXT	RETURN LOSS	ATTENUATION	IMPEDANCE
4 MHz	56.3 db	53.3 db	51.7 db	48.7 db	23 db	4.1 db	100 Ohms ± 15 Ohms
10 MHz	50.3 db	47.3 db	43.8 db	40.8 db	25 db	6.5 db	100 Ohms ± 15 Ohms
20 MHz	45.8 db	42.8 db	37.7 db	34.7 db	25 db	9.3 db	100 Ohms ± 15 Ohms
100 MHz	35.3 db	32.3 db	23.8 db	20.8 db	20.1 db	22 db	100 Ohms ± 15 Ohms

This table refers to the electrical specifications of TC2379, other Category 5E cabling is similar.

TC2379	Category 5E, PVC Bulk, 1,000ft (304.8m) Box, 4 Pr. Solid	Beige	99.00	97.02	95.04	93.06	91.08
TC2737	Category 5E, PVC Bulk, 1,000ft (304.8m) Box, 4 Pr. Solid	Gray	99.00	97.02	95.04	93.06	91.08
TC58141	Category 5E, PVC Bulk, 1,000ft (304.8m) Reel, 25 Pr. Solid	Gray	1895.95	1858.03	1820.11	1782.19	1744.27
TC2380	Category 5E, PVC Bulk, 1,000ft (304.8m) Reel, 2 Pr. Stranded	Beige	159.00	155.82	152.64	149.46	146.28
TC2382	Category 5E, PVC Bulk, 1,000ft (304.8m) Reel, 4 Pr. Stranded	Beige	229.00	224.42	219.84	215.26	210.68
TC2581	Category 5E, PVC Bulk, 1,000ft (304.8m) Reel, 4 Pr. Stranded	Yellow	229.00	224.42	219.84	215.26	210.68
TC2589	Category 5E, PVC Bulk, 1,000ft (304.8m) Reel, 4 Pr. Stranded	Red	229.00	224.42	219.84	215.26	210.68
TC2590	Category 5E, PVC Bulk, 1,000ft (304.8m) Reel, 4 Pr. Stranded	Green	229.00	224.42	219.84	215.26	210.68
TC2599	Category 5E, PVC Bulk, 1,000ft (304.8m) Reel, 4 Pr. Stranded	Blue	229.00	224.42	219.84	215.26	210.68
TPC2347	Category 5E, Plenum Bulk, 1,000ft (304.8m) Box, 4 Pr. Solid	White	219.00	214.62	210.24	205.86	201.48
TPC2567	Category 5E, Plenum Bulk, 1,000ft (304.8m) Box, 4 Pr. Solid	Blue	219.00	214.62	210.24	205.86	201.48
TPC58142	Category 5E, Plenum Bulk, 1,000ft (304.8m) Reel, 25 Pr. Solid	Gray	3999.00	3919.02	3839.04	3759.06	3679.08

RoHS Category 5E Outdoor UV Resistant Gel-Filled Bulk Cable - Ethernet Grade Cable for Outdoor Usage

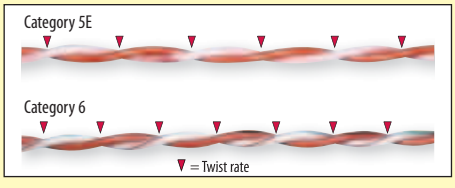
Protect Ethernet cable runs outside with L-com's outdoor Category 5E rated twisted pair cabling. The gel-filled jacket provides moisture protection when used in an outdoor environment. With the UV protected jacket, outdoor cable runs are protected from damage caused by sunlight exposure. The cable is EIA568 color-coded for compatibility with standard installations and features solid conductors for termination into standard IDC connectors. Order online today!

FREQUENCY	NEAR END CROSS TALK (NEXT)	ATTENUATION	CAPACITANCE	IMPEDANCE
4 MHz	53 dB min.	4.1 dB/330 ft max.	14 pF/ft Max	100 Ohms ± 15 Ohms
10 MHz	47 dB min.	6.5 dB/330 ft max.	14 pF/ft Max	100 Ohms ± 15 Ohms
20 MHz	42 dB min.	9.3 dB/330 ft max.	14 pF/ft Max	100 Ohms ± 15 Ohms
100 MHz	32 dB min.	22 dB/330 ft max.	14 pF/ft Max	100 Ohms ± 15 Ohms

TOAC2004	Cat. 5E, Outdoor Aerial/Duct, 1,000ft (304.8m) Reel, 4 Pr. Solid	Black	249.95	244.95	239.95	234.95	229.95
TOBC2004	Cat. 5E, Outdoor Direct Burial, 1,000ft (304.8m) Reel, 4 Pr. Solid	Black	549.00	CALL	CALL	CALL	CALL

Tip *What is the difference between Category 5E & Category 6 100 Ohm UTP?*

The Category 6 Standard adopted in mid 2002 extended key parameters over 5E specifications. The additional headroom is intended to provide quality transmission at higher data rates required by emerging applications. As the chart indicates, the most prominent difference is the frequency at which the key parameters are measured. The jump from 100 to 250 Mhz places a great deal of emphasis on component quality as well as installation techniques. This improvement is commonly noticed by the increased pair twisting and staggering of twisted pairs.



	Category 5E	Category 6
Frequency	100 MHz	250 MHz
Attenuation	22 db	19.8 db/100M @ 100 MHz 32.8 db/100M @ 250 MHz
Return Loss	19 db	19 db @ 100 MHz 15.6 db @ 250 MHz
Delay Skew	45 ns	45 ns
Near End Crosstalk (NEXT)	35.3 db	44.3 db @ 100 MHz 38.3 db @ 250 MHz
Power Sum Near End Crosstalk (PS-NEXT)	32.3 db	42.3 db @ 100 MHz 36.3 db @ 250 MHz
Equal Level Far End Crosstalk (ELFEXT)	23.8 db	27.8 db @ 100 MHz 19.8 db @ 250 MHz
Power Sum Equal Level Far End Crosstalk (PS-ELFEXT)	20.8 db	24.8 db @ 100 MHz 16.8 db @ 250 MHz

L-com Global Connectivity

What is the difference between stranded and solid cable?
See the free video tip and more at L-com.com/Videos/A19