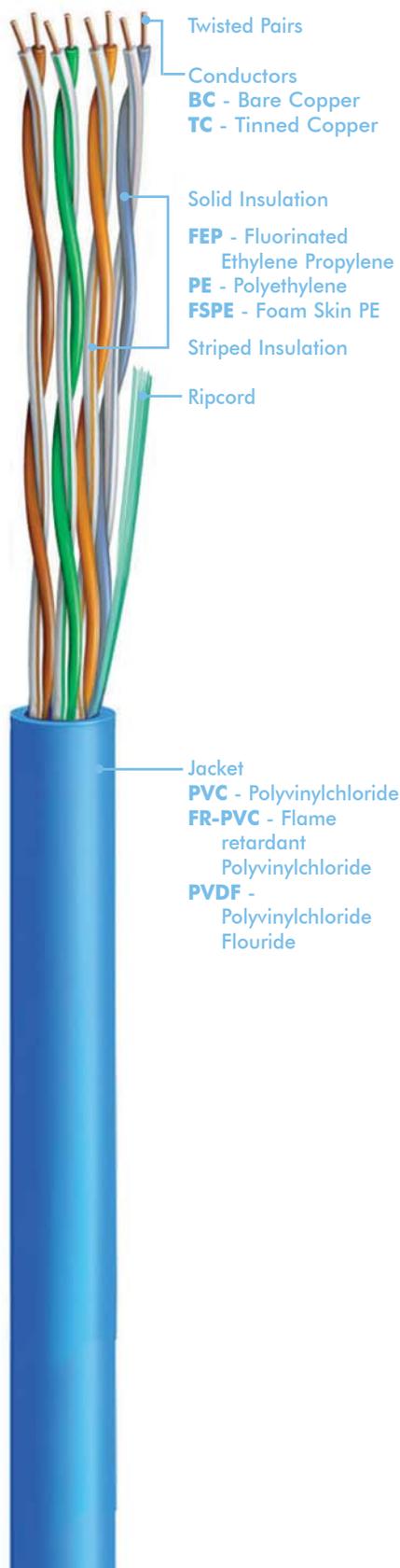


Twisted Pair



UltraPipe™ Category 6e Cable

Introduced in 2000, UltraPipe is the next evolution in unshielded twisted pair products. UltraPipe exceeds proposed Category 6 specifications and provides superior bandwidth performance up to 550 MHz to support broadband video and high-speed, full duplex transmission protocols.

UltraMedia™ Category 6 Cable

Introduced in 1998, UltraMedia is designed to exceed all proposed Category 6 requirements for high-speed, full-duplex, parallel transmission protocols. The revolutionary patented Isolator™ maximizes pair separation and minimizes pair motion resulting in superior NEXT, ELFEXT, and RL performance to 400MHz. Typical applications include high-speed digital voice, video and data, such as 3D imaging, broadband video, gigabit Ethernet, and 155/622Mb/s ATM.

Ultra II™ Category 5e “PLUS” Cable

First released in 1996, the Ultra II family was designed with the future in mind. A 350MHz Enhanced Category 5e UTP cable that provides guaranteed “headroom” over today’s current 5e standards. Ultra II incorporated superior isolation and return loss with low insertion loss, <15ns in Delay Skew, and ISO/IEC 11801 input impedance compliant.

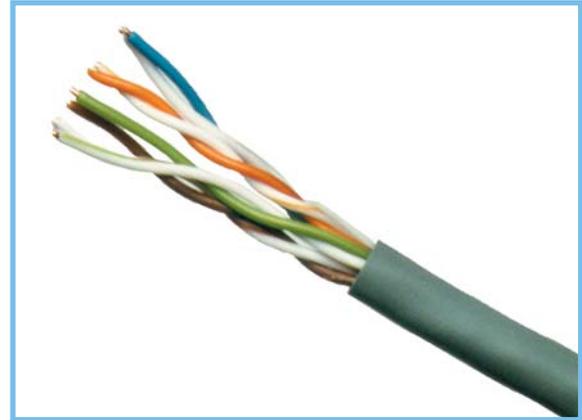
DataPipe™ Category 5e Cable

Often referred to as addendum 5, Category 5e was developed for simultaneous bi-directional transmission over 4-pairs. Improvements to Category 5 were made and additional electrical requirements such as power sum NEXT, equal level far-end crosstalk, power sum equal level far-end crosstalk, and return loss were added to create the 5e specification. Typical applications include those of Category 5 and full duplex encoding schemes such as gigabit Ethernet (1000 Base T).

Category 5 Cable

Established by the telecommunications industry association and first published in ANSI/EIA/TIA-568 in 1991, the Category 5 designation applies to 100Ω unshielded twisted pair cables and associated connecting hardware whose transmission characteristics are specified up to 100MHz. Available from one to twenty-five pairs, typical applications range from voice to 155Mb/s, Fast Ethernet, ATM, TPDDI, CDDI, TP-PMD, 100 Base T.

Taking Category 5e a step further, DataPipe is a 200 MHz cable developed for simultaneous bi-directional transmission over 4-pairs. Improvements to Category 5e were made and additional electrical requirements such as ISO/IEC 11801 input impedance were added. Typical applications include those of Category 5 and full duplex encoding schemes such as gigabit Ethernet. CommScope's Category 5e DataPipe cable now features an improved Commflex jacket to improve friction during installation resulting in less strain on the twisted pairs.



Electrical Performance of DataPipe

Frequency MHz	Attenuation max dB/100m		Pair to Pair								PowerSum					
			NEXT dB min		ELFEXT dB/100m min		Return Loss dB min		ACR dB min		NEXT min dB		ELFEXT min dB/100m		ACR min dB	
	DataPipe	5EJ4	DataPipe	5EJ4	DataPipe	5EJ4	DataPipe	5EJ4	DataPipe	5EJ4	DataPipe	5EJ4	DataPipe	5EJ4	DataPipe	5EJ4
1.0	2.0	2.4	65.3	65.5	63.8	63.8	23.0	23.0	63.3	62.9	62.3	62.3	60.8	60.8	60.3	60.3
4.0	4.1	4.9	56.3	56.3	51.7	51.7	23.0	23.0	52.2	51.4	53.3	53.3	48.7	48.7	49.2	49.2
8.0	5.8	6.9	51.8	51.8	45.7	45.7	24.5	24.5	46.0	44.8	48.8	48.8	42.7	42.7	43.0	43.0
10.0	6.5	7.8	50.3	50.3	43.8	43.8	25.0	25.0	43.8	42.6	47.3	47.3	40.8	40.8	40.8	40.8
16.0	8.2	9.9	47.3	47.3	39.7	39.7	25.0	25.0	39.0	37.4	44.3	44.3	36.7	36.7	36.0	36.0
20.0	9.3	11.1	45.8	45.8	37.7	37.7	25.0	25.0	36.5	34.7	42.8	42.8	34.7	34.7	33.5	33.5
25.0	10.4	12.5	44.3	44.3	35.8	35.8	24.3	24.3	33.9	31.8	41.3	41.3	32.8	32.8	30.9	30.9
31.25	11.7	14.1	42.9	42.9	33.9	33.9	23.6	23.6	31.2	28.8	39.9	39.9	30.9	30.9	28.2	28.2
62.5	17.0	20.4	38.4	38.4	27.8	27.8	23.0	23.0	21.4	18.0	35.4	35.4	24.8	24.8	18.4	18.4
100.0	22.0	26.4	35.3	35.3	23.8	23.8	23.0	23.0	13.3	8.9	32.3	32.3	20.8	20.8	10.3	10.3
155.0	28.1		32.5		19.9		18.8		4.4		29.5		16.9		1.4	
200.0	32.4		30.8		17.7		18.0		-1.6		27.8		14.7		-4.6	

(All tests include swept frequency measurements)

NEXT and Power Sum values are derived from functions and truncated to the nearest whole dB.

Applications: Gigabit Ethernet, 155Mb/s ATM, 100Mb/s TP-PMD/CDDI and Fast Ethernet
Exceeds/meets: ANSI/EIA 568A Category 5e, ISO/IEC 11801
Features: PSUM crosstalk compliant
 Flexible jacket with ripcord strips cleanly and resists kinking
 Coextruded colorstrip pairs for easy identification
 Performance specified to 200 MHz

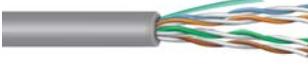
Plenum

Part Number	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Characteristic Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
5E55	4	24 AWG Solid BC	Foamed FEP .007/.18 PE .008/.20	CommFlex .017/.43	.185/4.70 White, blue, yellow, pink and gray	14	100Ω ± 15%	28.6Ω/kft 9.4Ω/100m	74%	21/68



ETL CMP/C(ETL) CMP

Part Number	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Characteristic Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
5E40	4	24AWG Solid BC	FEP .007/.18	CommFlex .017/	.180/4.6 White, blue and gray	14	100Ω ±15%	28.6Ω/kft 9.4Ω/100m	74%	21/68



ETL CMP/C(ETL) CMP

Non-plenum

Part Number	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Characteristic Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
5EN5	4	24 AWG Solid BC	PE .008/.20	PVC .022/.56	.200/.51 White, blue, yellow, pink and gray	14	100Ω ± 15%	28.6Ω/kft 9.4Ω/100m	68%	21/68



ETL CMR/C(ETL) CMG

Patch Swept to 100 MHz

Part Number	No. of Pairs	Conductor Size and Material	Insulation Type & Thickness in / mm	Cable Jacket Material & Thickness in / mm	Cable Jacket OD and colors in / mm.	Nominal Capacitance pF/ft	Characteristic Impedance	Maximum DCR	Velocity of Propagation	Shipping Wt. in lbs. kft / km
5EJ4	4	24 AWG Stranded TC	PE .008/.20	Flame-retardant PVC .020/.51	.218/5.5 White, blue, yellow, pink and gray	14	100Ω ± 15%	28.6Ω/kft 9.4Ω/100m	72%	20/66



ETL CM/C(ETL) CMG