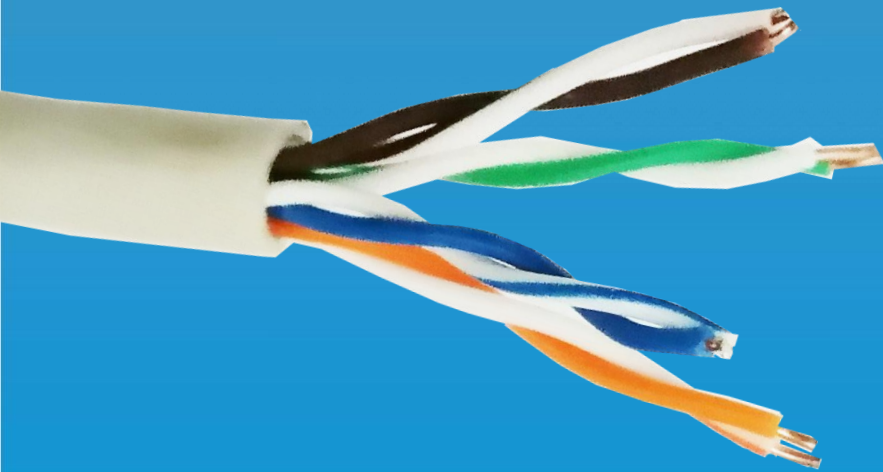


## CAT5E UTP Indoor use

COMCAST GROUP



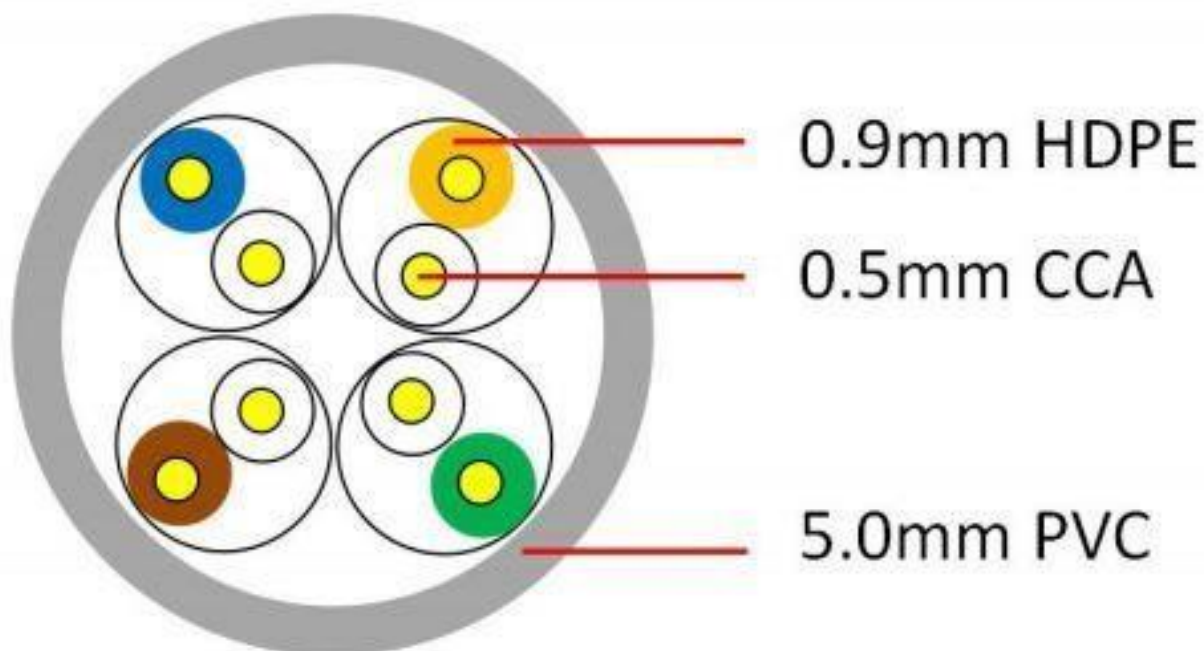
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## Application

1. Exceeds ANSI/TIA-568B. 2 and ISO 11801 2nd Edition Class E Category 5e channel standards.
2. Exceed requirements of ANSI/TIA-568B. 2 and IEC 61156-5 Category 5e Component standards.
3. Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
4. Length cable marking enable easy identification of remaining cable which reduces installation time and cable scrap.
5. Color Availability: Additional cable colors available.

## Drawing



## Electronic Characteristics

- Impedance:  $100 \pm 15$ (ohms).
- Rated Temperature: 75° C DC
- Resistance unbalance(%): Max2.5 DC
- Resistance 20° C: 14.6(Ohms/100m)
- Pair-to-Ground Capacitance Unbalance: 330(Pf/100m)
- Transfer Impedance: Max 10 mohms/m@100MHz.
- Installation Resistance:  $>5000M\Omega$  \*KM
- Dielectric strength: DC 2500V 2S

## Standard / Certificate

Reference Standard: YD/T1019-2001,ISO/IEC11801,ANSI/TIA/EIA - 568B

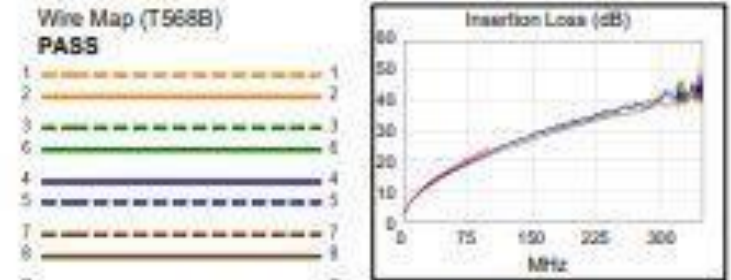
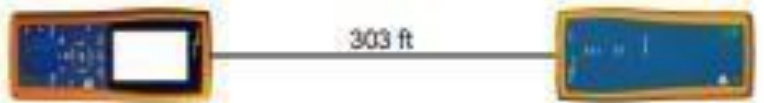
Certificates ISO9001,14000, ROHS.

## Electrical Characteristics

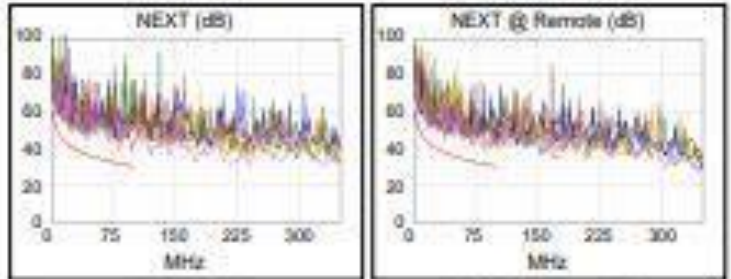
Electrical Characteristics(CAT 5e)								
Frequency	Impedance	SRL	Attenuation	Next	Next	Elfext	Elfext	Nominal
Mhz	ohm	dB	dB/100m	Worst Pair	Power Sum	Worst Pair	Power Sum	Velocity
				dB	dB	dB	dB	Propagation
0.772	100±15	19.4	1.8	67	64	66	63	0.65
1		20	2	65.3	62.3	63.8	60.8	
4		23	4.1	56.3	53.3	51.7	48.7	
8		24.5	5.8	51.8	48.8	45.7	42.7	
10		25	6.5	50.3	47.3	43.8	40.8	
16		25	8.2	47.3	44.3	39.7	36.7	
20		25	9.3	45.8	42.8	37.7	34.7	
25		24.3	10.4	44.3	41.3	35.8	32.8	
31.25		23.6	11.7	42.9	39.9	33.9	30.9	
62.5		21.5	17	38.4	35.4	27.8	24.8	
100		20.1	22	35.3	32.3	23.8	20.8	

# Test Summary

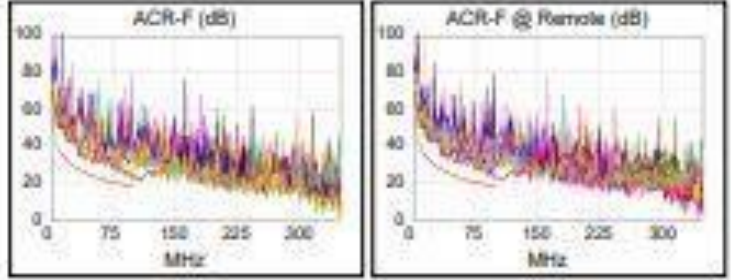
Length (ft), Limit 328	[Pair 78]	303
Prop. Delay (ns), Limit 555	[Pair 36]	455
Delay Skew (ns), Limit 50	[Pair 36]	9
Resistance (ohms)	[Pair 36]	26.2
Insertion Loss Margin (dB)	[Pair 45]	1.1
Frequency (MHz)	[Pair 45]	100.0
Limit (dB)	[Pair 45]	24.0



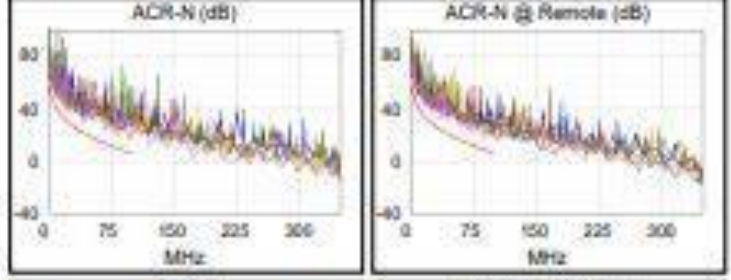
	Worst Case Margin		Worst Case Value	
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	45-78	12-36	12-36	45-78
<b>NEXT (dB)</b>	7.0	8.3	7.5	7.0
Freq. (MHz)	42.3	5.5	97.3	88.3
Limit (dB)	38.5	51.3	30.3	31.0
Worst Pair	45	12	36	45
<b>PS NEXT (dB)</b>	8.9	8.1	10.2	9.3
Freq. (MHz)	42.3	5.4	97.3	86.3
Limit (dB)	33.5	48.4	27.3	28.2



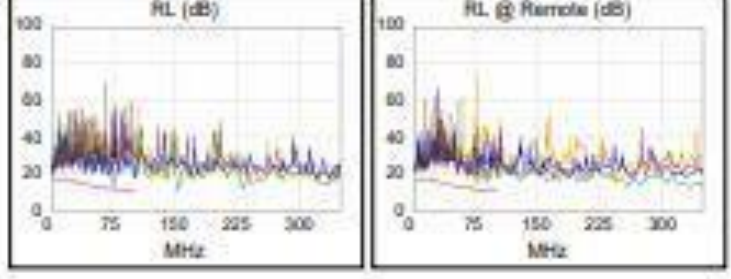
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	36-45	45-36	36-45	45-36
<b>ACR-F (dB)</b>	4.0	4.2	4.0	4.2
Freq. (MHz)	99.3	99.3	99.3	99.3
Limit (dB)	17.5	17.5	17.5	17.5
Worst Pair	45	36	45	36
<b>PS ACR-F (dB)</b>	6.7	6.9	6.7	6.9
Freq. (MHz)	99.3	99.3	99.3	99.5
Limit (dB)	14.5	14.5	14.5	14.4



<b>N/A</b>	MAIN	SR	MAIN	SR
Worst Pair	45-78	12-36	12-36	45-78
<b>ACR-N (dB)</b>	8.2	8.5	9.1	9.1
Freq. (MHz)	42.3	5.4	97.5	88.3
Limit (dB)	21.4	46.3	6.6	8.6
Worst Pair	36	12	12	12
<b>PS ACR-N (dB)</b>	9.2	8.2	11.4	11.7
Freq. (MHz)	5.6	5.4	97.5	98.0
Limit (dB)	42.8	43.3	3.6	3.5



<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	36	36	36	36
<b>RL (dB)</b>	1.6	3.5	1.6	3.5
Freq. (MHz)	75.8	75.5	75.8	75.5
Limit (dB)	11.2	11.2	11.2	11.2

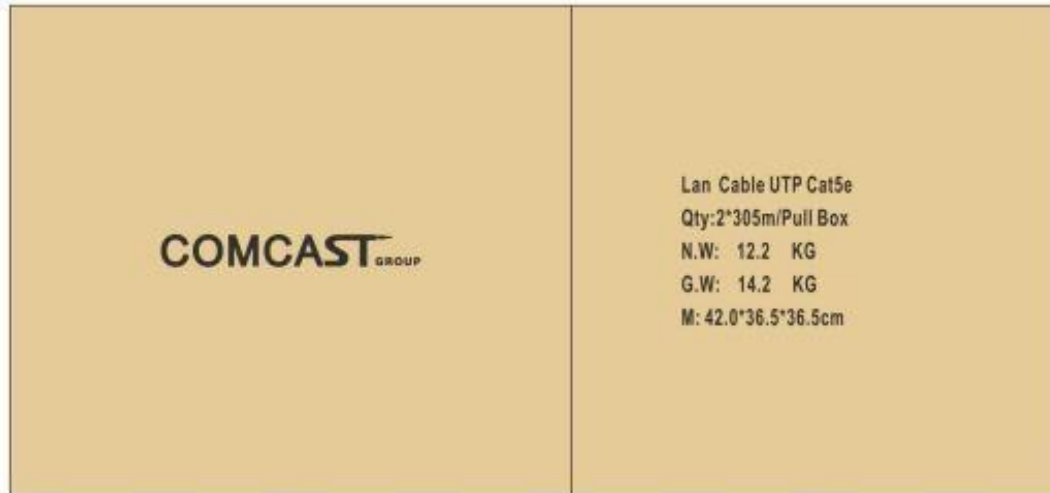


Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
100BASE-T	2.5GBASE-T	ATM-25
ATM-51	ATM-155	100VG-AnyLan
TR-4	TR-16 Active	TR-16 Passive



## Printing & Packag



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