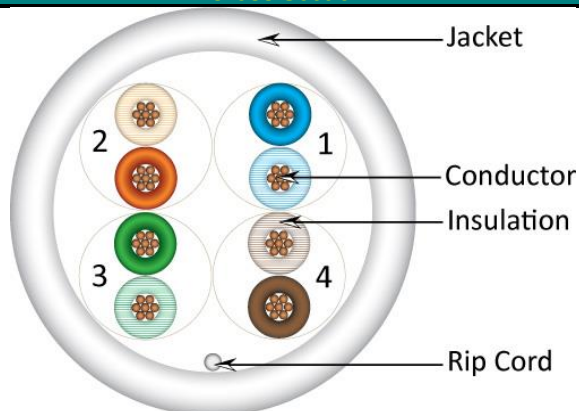


Cross Section



Features

Category-5E, 24AWG, UTP, 8-Conductor, Stranded Bare Copper, PVC Jacket 305M Pull Box

Features

- High-Performance Data Communications Cable
- Category-5E Unshielded Twisted Pair
- 24AWG Stranded Copper Conductors
- Easily Identified Color-Striped Pairs
- Exceeds TIA/EIA-568C.2, ISO/IEC 11801
- ETL Listed
- 305M Pull Box

Technical Data

Rated Temperature (oC)	-20~75
Application	Horizontal Wiring in LAN
Reference Standard:	cETLus, TIA/EIA-568B.2, ISO/IEC 11801

Construction

Conductor	Stranded Bare Copper
AWG	24
Conductor Dia. (±0.005mm)	7/0.20
Insulation	HDPE
Average Thickness(mm)	0,180
Min. Point Thickness(mm)	0,166
Insulation Dia.(±0.01mm)	0,96
Twisted Pair Dia.(±0.02mm)	1,92
Jacket	PVC
Average Thickness(mm)	0.50~0.55
Outer Dia.(±0.2mm)	5,10
Rip Cord	Yes

Color of Pairs

Pair 1	Blue, White-Blue
Pair 2	Orange, White-Orange
Pair 3	Green, White-Green
Pair 4	Brown, White-Brown

Jacket colors

White

Performance

Electrical Characteristics:

Frequency (MHz)	Return loss (Min dB)	Attenuation Max (dB/100m)	NEXT (Min dB)
1	20,0	2,0	65,3
4	23,0	4,1	56,3
8	24,5	5,8	51,8
16	26,0	8,2	47,3
20	26,5	9,3	45,8
62,5	25,0	17,0	38,4
100	25,0	22,0	35,3
200	18,0	32,4	30,8
250	17,3	36,9	29,3
350	16,3	44,9	27,2

Frequency (MHz)	PSNEXT Min (dB)	ELFEXT Min (dB/100m)	PSELFEXT Min (dB/100m)	Delay Max (ns/100m)
1	62,3	63,8	60,8	570,0
4	53,3	51,7	48,7	552,0
8	48,8	45,7	42,7	546,7
16	44,3	39,7	36,7	543,0
20	42,8	37,7	34,7	542,0
62,5	35,4	27,8	24,8	538,6
100	32,3	23,8	20,8	537,6
200	27,8	17,7	14,7	536,5
250	26,3	15,8	12,8	536,3
350	24,2	12,9	9,9	535,9

Electrical Characteristics:

1.0-100.0MHz Impedance (ohms)	100 ± 15
1.0-100.0MHz Delay Skew (ns/100m)	≤45
Pair-to-Ground Capacitance Unbalance (pF/100m)	≤330
Max. Conductor DC Resistance 20°C (ohms/km)	72,2
Resistance Unbalance (%)	≤5

Mechanical Characteristics:

Test Object	Jacket
Test Material	PVC
Before Tensile Strength (Mpa)	≥13.8
Aging Elongation (%)	≥100
Aging Condition (°Cxhrs)	100x168
After Tensile Strength (Mpa)	≥85% of unaged
Aging Elongation (%)	≥50% of unaged
Cold Bend(-20±2°Cx4hrs)	No crack

Packaging

305M Pull Box