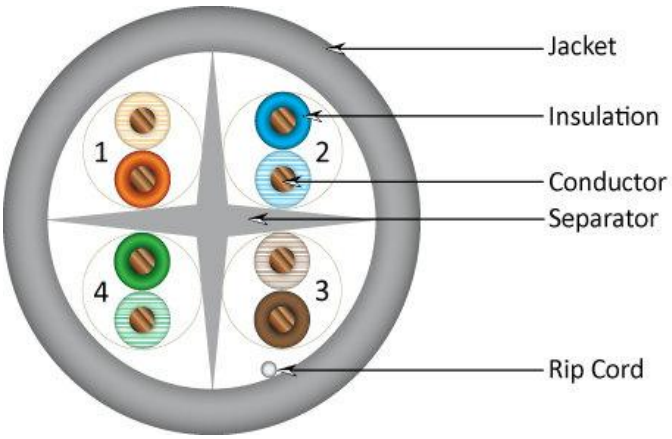
4Pairs CAT6 UTP 24AWG LSZH Cable SPEC

CODE：10185NHZH DATE:2021.06.08

Cross Section



Description

Category-6, 24AWG, UTP, LSZH Jacket, 8C Solid Bare Copper, 305M Pull Box

Features

- High-Performance Data Communications Cable
- Category-6 Unshielded Twisted Pair
- 24AWG Solid Copper Conductors
- Easily Identified Color-Striped Pairs
- Exceeds TIA/EIA-568C.2, ISO/IEC 11801
- cETLus Listed, RoHS Compliant
- 305M Pull Box

Technical Data

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

Construction

Conductor	Solid Bare Copper
AWG	24
Conductor Dia. (±0.005mm)	0.5
Insulation	HDPE
Average Thickness(mm)	0.205
Min. Point Thickness(mm)	0.1886
Insulation Dia.(±0.01mm)	0.91
Twisted Pair Dia.(±0.02mm)	1.82
Separator	PE
Jacket	LSZH
Average Thickness(mm)	0.50~0.55
Outer Dia.(±0.2mm)	5.6
Rip Cord	Yes

Color of Pairs

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

Jacket colors

Gray

Performance

Electrical Characteristics:

Frequency (MHz)	Return loss (Min dB)	Attenuation Max (dB/100m	NEXT (Min dB)
1	20	2	65
4	23	4	56
8	25	6	52
16	26	8	47
20	27	9	46
63	25	17	38
100	25	22	35
200	18	32	31
250	17	37	29

Frequency (MHz)	PSNEXT Min (dB)	ELFEXT Min(dB/100m)	PSELFEXT Min(dB/100m)	Delay Max(ns/100m)
1	62	64	61	570
4	53	52	49	552
8	49	46	43	547
16	44	40	37	543
20	43	38	35	542
63	35	28	25	539
100	32	24	21	538
200	28	18	15	537
250	26	16	13	536

Electrical Characteristics:

1.0-100.0MHz Impedance (ohms)	100 ± 15
100.0-250.0MHz Impedance (ohms)	100 ± 25
1.0-250.0MHz Delay Skew (ns/100m)	<=45
Pair-to-Ground Capacitance Unbalance (pF/100m)	<=330
Max. Conductor DC Resistance 20°C (ohms/km)	72
Resistance Unbalance (%)	<=5

Mechanical Characteristics:

Test Object		Jacket
Test Material		LSZH
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

Marking on Jacket

Per request