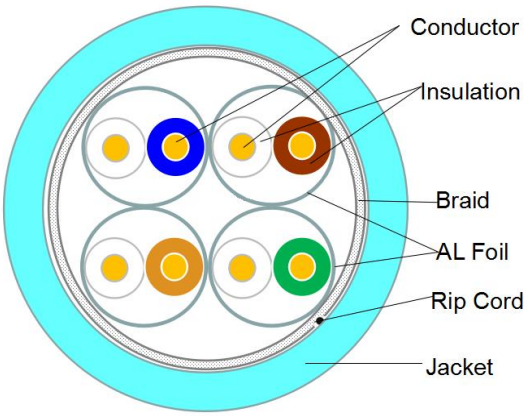
CAT7 10Gig 23AWG S/FTP Dual Shielded Bulk Ethernet Cable

DATE:2024.08.09

Cross Section



Description

CAT7 10GBaseT 600MHz, S/FTP, Dual Shielded, 23AWG, Solid Bare Copper, 8-Conductor, LSZH Jacket, 305M Wooden Spool.

Applications

- 10GBASE-T Ethernet
- 1000BASE-Tx Gigabit Ethernet
- 10BASE-T, 100BASE-TX FAst Ethernet
- 10 VG - AnyLAN
- 550 MHz Broadband Video
- Voice, T1, ISDN
- 155/622 Mbps ATM

Features

- Category 7 Dual Shielded Twisted Pair (S/FTP) Cable
- Shielded Al Foil Each Pair Cable
- Overall Al-Mg Wire Alloy Braiding Coverage
- High-Performance Data Communications Cable
- Tested 10G-6000MHz High Speed Data Applications, Gigabit Ethernet, Fast Ethernet and 155Mbps TP-PMD/CDDI
- Supports PoE/PoE+/PoE++(IEEE802.3af/at/bt) 4PPoE up to 90W
- 4-Pair Easily Identified Color Striped Pairs
- 23AWG Solid Bare Copper Conductors
- Excellent Attenuation and Crosstalk Characteristics
- cETLus Listed, RoHS Compliant, TAA Compliant
- 305 Meter Wooden Spool

Construction

Conductor	Solid Bare Copper
AWG	23
Conductor Dia. (±0.005mm)	0.57
Insulation	Skin-Foam-Skin PE
Average Thickness(mm)	0.390
Min. Point Thickness(mm)	0.359
Insulation Dia.(±0.01mm)	1.35
Twisted Pair Dia.(±0.02mm)	2.7
Shield	Al Foil Each Pair
Braiding	16x5/0.12Al-Mg wire Coverage
Jacket	LSZH
Average Thickness(mm)	0.55~0.60
Outer Dia.(±0.2mm)	7.80
Rip Cord	Yes

Color of Pairs

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

Jacket colors

Blue

Technical Data

Rated Temperature (oC)	-20~75
Application	Horizontal Wiring in LAN
Reference Standard	TIA/EIA-568B.2, ISO/IEC 11801, YD/T1019

Transmission Performance

Frequency (MHz)	Return loss (Min dB)	Attenuation Max(dB/100m)	NEXT (Min dB)	Impedanc(Ω) Max. / Min.
4	23.0	3.7	78.0	115 / 87
8	24.5	5.2	78.0	113 / 89
10	25.0	5.9	78.0	112 / 89
16	25.0	7.4	78.0	112 / 89
20	25.0	8.3	78.0	112 / 89
25	24.3	9.3	78.0	113 / 89
30	23.8	10.2	78.0	114 / 88
31	23.6	10.4	78.0	114 / 88
63	21.5	14.9	75.5	118 / 84
100	20.1	19.0	72.4	122 / 82
200	18.0	27.5	67.9	129 / 78
250	17.3	31.0	66.4	132 / 76
300	17.3	34.2	65.2	132 / 76
400	17.3	40.0	63.4	132 / 76
500	17.3	45.3	61.9	132 / 76
600	17.3	50.1	60.7	132 / 76

Frequency (MHz)	PS NEXT Min (dB)	EL FEXT Min(dB/100m)	PS ELFEXT Min(dB/100m)	Delay Max(ns/100m)
4	75.0	78.0	75.0	552
8	75.0	77.2	74.2	547
10	75.0	75.3	72.3	545
16	75.0	71.2	68.2	543
20	75.0	69.3	66.3	542
25	75.0	67.3	64.3	541
30	75.0	65.8	62.8	541
31	75.0	65.4	62.4	540
63	72.5	59.4	56.4	539
100	69.4	55.3	52.3	538
200	64.9	49.3	46.3	537
250	63.4	47.3	44.3	536
300	62.2	45.8	42.8	536
400	60.4	43.3	40.3	536
500	58.9	41.3	38.3	536
600	57.7	39.7	36.7	535

Electrical Characteristics

Resistance	≤ 9.5Ω/100m
Unbalance Resistance of pair	≤ 2%
Unbalance Resistance of pairs	≤ 4%
Dielectric of Conductors	1.0kV*1min DC
Dielectric conductor to Ground	2.5kV*1min DC
Insulation Resistance	≥ 5000 MΩ*㎞
Pair to Ground Unbalance Capacitance	≤160 pF/100m

Mechanical Characteristics

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

Packaging

305M / Wooden Spool

Marking on Jacket

Per request