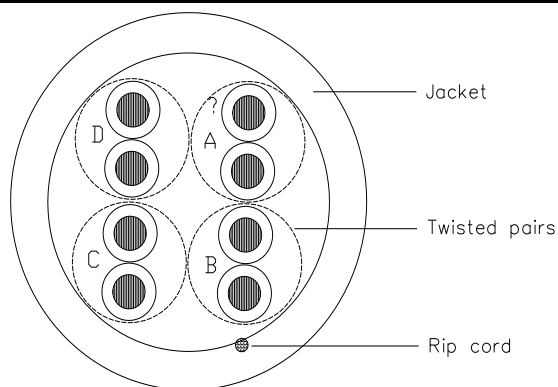


CODE: 10178NH02

Cross Section



Marking

NHTD 4 PAIR / 25 AWG CAT5E UTP CABLE
INDOOR XXXM

Description

Rated Temperature (°C) 75

Product Standard Certification

Application

Horizontal Wiring in LAN

Reference Standard

cETLus, EIA/TIA568 & ISO/IEC 11801

Construction

Conductor Solid Bare Copper

AWG 25

Conductor Dia. (mm) **0,46**

Insulation PE

Average Thickness(mm) 0,195

Min. Point Thickness(mm) 0,179

Insulation Dia.(±0.01mm) **0,85**

Twisted Pair Dia.(±0.02mm) 1,70

Jacket PVC

Average Thickness(mm) 0,50

Outer Dia.(±0.2mm) **4,60**

Rip Cord Per request

Color

Insulation colors are:

Blue, White/Blue

Orange, White/Orange

Green, White/Green

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

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

1.0-100.0MHz Impedance (ohms)	100 ± 15
1.0-100.0MHz Delay Skew (ns/100m)	<=45
Pair-to-Ground Capacitance Unbalance (pF/10)	<=330
Max. Conductor DC Resistance 20°C (ohms/kr)	93,8
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 / 1000FT Pull Box