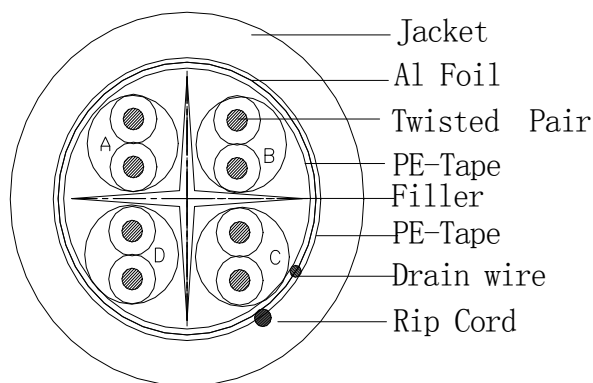


4X2X0.57

DATE:2017.05.23

Cross Section



Marking

Per request

Description

Rated Temperature (°C) 75

Application

Horizontal Wiring in LAN

Reference Standard

UL Subject 444,EIA/TIA568 & ISO/IEC 11801

Construction

Conductor Solid Bare Copper

AWG 23

Conductor Dia. (±0.05mm) **0.57**

Insulation PE

Average Thickness(mm) 0.255

Min. Point Thickness(mm) 0.235

Insulation Dia.(±0.01mm) **1.08**

Twisted Pair Dia.(±0.02mm) 2.16

Filler PE

PE-Tape(mm) Yes

Drain wire (CCA) Dia.(±0.003mm) 0.40

Al Foil Shield(mm) Yes

Assembly Dia.(±0.2mm) 6.2

Jacket LLDPE

Average Thickness(mm) 0.60

Min. Point Thickness(mm) 0.55

Outer Dia.(±0.1mm) **7.20**

Rip Cord Nylon

Color

Insulation colors are:

Blue,White/Blue

Orange,White/Orange

Green,White/Green

Brown,White/Brown

Jacket colors:

Per request

Performance

Electrical Characteristics:

Frequency (MHz)	Return loss (Min dB)	Attenuation (Max)	NEXT (Min dB)
1	20.0	1.8	74.3
4	23.0	3.7	65.3
8	24.5	5.3	60.8
16	25.0	7.5	56.3
20	25.0	8.4	54.8
62.5	21.5	15.4	47.4
100	20.1	19.8	44.3
200	18.0	29.0	39.8
250	17.3	32.8	38.3

Frequency (MHz)	PSNEXT (Min dB)	ELFEXT (Min dB/100m)	PSELFEXT (Min dB/100m)	Delay (Max ns/100m)
1	72.3	67.8	64.8	570.0
4	63.3	55.7	52.7	552.0
8	58.8	49.7	46.7	546.7
16	54.3	43.7	40.7	543.0
20	52.8	41.7	38.7	542.0
62.5	45.4	31.8	28.8	538.6
100	42.3	27.8	24.8	537.6
200	37.8	21.7	18.7	536.5
250	36.3	19.8	16.8	536.3

1.0-250.0MHz Impedance (ohms) 100 ± 15

1.0-250.0MHz Delay Skew (ns/100m) ≤45

Pair-to-Ground Capacitance Unbalance (pF/100m) 3300

Max. Conductor DC Resistance 20°C (ohms/km) 68

Resistance Unbalance (%) ≤5

Mechanical Characteristics:

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