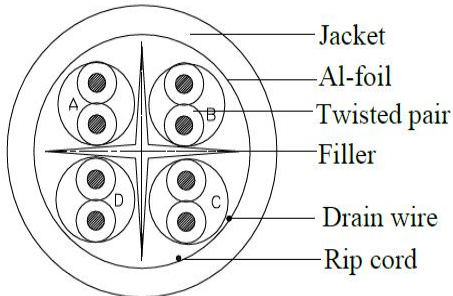


4X2X0.57

DATE:2014.10.10

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	CCA
AWG	23
Conductor Dia. (±0.05mmmm)	0.57
Insulation	PE
Average Thickness(mm)	0.225
Min. Point Thickness(mm)	0.207
Insulation Dia.(±0.01mm)	1.02
Twisted Pair Dia.(±0.02mm)	2.04
Filler	PE
PE-Tape(mm)	Yes
Drain wire (Solid Tinned Copper) Dia.(±0.003mm)	0.40
Al Foil Shield(mm)	Yes
PE-Tape(mm)	Yes
Assembly Dia.(±0.2mm)	6.2
Jacket	PVC/LSOH
Average Thickness(mm)	0.60
Min. Point Thickness(mm)	0.55
Outer Dia.(±0.1mm)	7.30
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 n Max (dB/100m)	NEXT (Min dB)
1	20.0	2.1	74.3
4	23.0	3.8	65.3
8	24.5	5.3	60.8
16	25.0	7.5	56.2
20	25.0	8.4	54.8
62.5	21.5	15.0	45.4
100	20.1	19.1	44.3
200	18.0	27.6	39.8
250	17.3	31.1	38.3
300	16.8	34.3	37.1
400	15.9	40.1	35.3
500	15.2	45.3	33.8

Frequency (MHz)	PSNEXT (Min dB)	ELFEXT (Min dB/100m)	PSELFEXT (Min dB/100m)	Delay (ns/100m) Max
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
300	25.2	14.2	11.2	536.1
400	23.3	11.7	8.7	535.8
500	21.8	9.8	6.8	535.6

1.0-500.0MHz Impedance (ohms) 100 ± 15
1.0-500.0MHz Delay Skew (ns/100m) <=45

Pair-to-Ground Capacitance Unbalance (pF/100m) 3300
Max. Conductor DC Resistance 20°C (ohms/km) 66.8
Resistance Unbalance (%) <=5

Mechanical Characteristics:

Test Object	Test Material	Test Condition	Requirement
Jacket	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