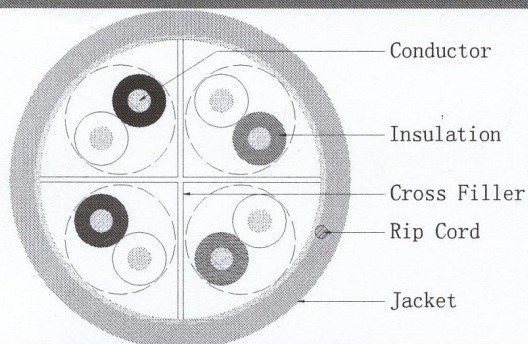


INDOOR CAT 6 UTP SOLID LAN CABLE 100MHz 23AWG 4 PAIRS PVC

Part No.: PA-L6.IN-UTP4-SO-23-PVC

RoHS (2002/95/EC) Compliant

Cross Section



Electrical Characteristics

Reference Standard: UL Subject 444 TIA/EIA-568-B.2 & IEC/ISO 11801
Product Standard Certification: UL File E227171

Test Item	Units	Spec
1.Max.Conductor DC Resistance 20°C	Ω/100m	7.5
2.Unbalance of Pair DC Resistance 20°C	%	≤2.5
3.Dielectric Strength between Pairs	kv/min	≤1.0
4.Insulation Resistance	MΩ·km	≥5000
5.Capacitance	nF/100m	—
6.Unbalance of Capacitance	pF/100m	≤330
7.Characteristic impedance(1 to 100MHz)	Ω	100±15
8.Short or Open of the loop	—	None
9.Shield	—	—

Cable Description

1) Conductor:

Number of Pairs	4
Total Number of Conductors	8
Conductor Material	BC - Solid Bare Copper
Wire Gage	23AWG
Elongation rate	≥15%

2) Insulate:

Insulate Material	HDPE - Polyethylene
Nom.Insulation Wall Thickness	0.19 mm
Insulate Dia.	Φ 0.96±0.05 mm
Elongation	≥300%
Pair Color Cord	Pair 1:White-Blue & Blue Pair 2:White-Orange & Orange Pair 3:White-Green & Green Pair 4:White-Brown & Brown

3)Paired:

Length of Lay	< 38 mm
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4) Cabling:

Order of the Pair	See the Cross Section
Cross Filler	PE
PET Tape	0.02×20mm

5) Outer Sheath:

Outer Sheath Material	PVC - Polyvinyl Chloride
Outer Sheath Colors	Per Customer Request
Outer Sheath Rip Cord	Per Customer Request
Overall Nominal Diameter	0.55±0.05 mm
Min. Thickness	0.40 mm
Overall Nominal Diameter	Φ 6.20±0.30 mm
Marking	Per Customer Request

Frequency (MHz)	Min.RL (dB)	Min.SRL (dB)	Max.IL (dB/100m)	Min.NEXT (dB)
1	20.0	30.0	2.0	74.3
4	23.0	30.0	3.8	65.3
10	25.0	30.0	6.0	59.3
16	25.0	30.0	7.5	56.2
20	25.0	30.0	8.4	54.8
31.25	23.6	28.1	10.6	51.9
62.5	21.5	25.1	15.4	47.4
100	20.1	23.0	19.8	44.3
200	18.0	20.0	29.0	39.8
250	17.3	19.0	32.8	38.3

Frequency (MHz)	Min.PSNEXT (dB)	Min.ELFEX T (dB)	Min.PSELF EXT(dB)	Max.Delay (ns/100m)
1	72.3	68.0	65.0	45.0
4	63.3	56.0	53.0	45.0
10	57.3	48.0	45.0	45.0
16	54.2	43.9	40.9	45.0
20	52.8	42.0	39.0	45.0
31.25	49.9	38.1	35.1	45.0
62.5	45.4	32.1	29.1	45.0
100	42.3	28.0	25.0	45.0
200	37.8	22.0	19.0	45.0
250	36.3	20.0	17.0	45.0

Mechanical Characteristics

Test Object

Test Material	Sheath PVC
Before Tensile Strength(Mpa)	≥13.5
Aging Elongation(%)	≥150
Aging Condition(°C×hrs)	100×168
Before Tensile Strength(Mpa)	≥12.5
Aging Elongation(%)	≥125
Cold Bend(-20±°C×4hrs)	No crack
Operating Temperature Range	-20°C To +75°C
Min.Bend Radius(Install)	8×D

Other Characteristics

Net Weight	40	kg/km
Length	305m	Pully Boxes
	500m	Plywood Reels
	1000m	Plywood Reels
	2000m	Plywood Reels