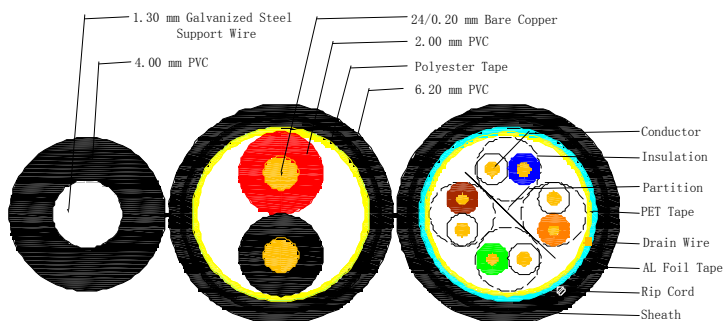


DUAL CAT 5E FTP SOLID LAN CABLE 100MHz 24AWG 4 PAIRS PVC + Power Feed Drop Wire
Part No. : PA-L5E.IN-FTP4-SO-24-PVC-PFDW-DUAL

RoHS (2002/95/EC) Compliant

Cross Section



LAN CABLE Electrical Characteristics

Reference Standard:	TIA/EIA-568-B.2	
Product Standard Certification:	UL File E227171	
Test Item	Units	Spec
1.Max.Conductor DC Resistance 20°C	Ω/100m	9.5
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	≤5.6
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

LAN CABLE

1) Conductor :

Number of Pairs	4
Total Number of Conductors	8
Conductor Material	BC - Solid Bare Copper
Wire Gage	24AWG
Elongation rate	≥15%

2) Insulate :

Insulate Material	HDPE - Polyethylene
Nom.Insulation Wall Thickness	0.23 mm
Insulate Dia.	Φ 0.98±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
Partition	0.33×3.90 mm
Polyester Foil	PET(25um)
Drain Wire	Solid Tinned Copper 24AWG
Aluminum/Polyester Tape	0.045×17 mm

Power Feed Wire

1) Conductor :

Number of Pairs	1
Total Number of Conductors	2
Conductor Material	BC - Solid Bare Copper
Conductor Diameter	0.20mm×24(0.75 mm ²)

2) Insulate :

Insulate Material	PVC - Polyvinyl Chloride
Nom.Insulation Wall Thickness	0.40 mm
Insulate Dia.	Φ 2.00±0.05 mm
Pair Color Cord	Black & Red

Outer Sheath :

Outer	PVC - Polyvinyl Chloride
Outer Sheath Colors	Per Customer Request
Outer Sheath Rip Cord	200D×3
Overall Nominal Diameter	0.54-1.00-1.30±0.05 mm
Overall Nominal Diameter	Φ 6.20-Φ 6.20-Φ 4.00±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	28.0	2.0	65.3
4	23.0	28.0	4.0	56.3
8	24.5	28.0	5.7	51.8
10	25.0	28.0	6.4	50.3
16	25.0	28.0	8.2	47.2
20	25.0	25.0	9.2	45.8
25	24.3	27.0	10.3	44.3
31.25	23.6	26.1	11.6	42.9
62.5	21.5	23.1	16.8	38.4
100	20.1	21.0	21.7	35.3

Frequency (MHz)	Min.PSNEXT (dB)	Min.ELFEX T	Min.PSELF EXT(dB)	Max.Delay (ns/100m)
1	62.3	64.0	61.0	45.0
4	53.3	52.0	49.0	45.0
8	48.8	45.9	42.9	45.0
10	47.3	44.0	41.0	45.0
16	44.2	39.9	36.9	45.0
20	42.8	38.0	35.0	45.0
25	41.3	36.0	33.0	45.0
31.25	39.9	34.1	31.1	45.0
62.5	35.4	28.1	25.1	45.0
100	32.3	24.0	21.0	45.0

Mechanical Characteristics

Test Object	Sheath
Test Material	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.Bending Radius(Install)	8×D

Other Characteristics

Net Weight	88.0	kg/km
Length	100m	Coil
	305m	Pully Boxes
	500m	Plywood Reels
	1000m	Plywood Reels
	2000m	Plywood Reels

Revision History

Date :	Define by :	Rev. : 0
Prepared by : Wang Sheng Jie	Date:2007/12/17	Rev.:A/0
Approved by: Wang Yuan Yuan	Date:2007/12/17	Page:1 of 1



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Note : The specifications are subjected to change without prior notice.