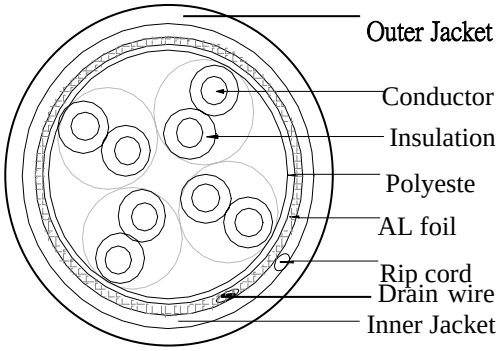
Cablexpert®

4 PAIR 24AWG CAT5E FTP CABLE

Part No.:FPC-5004E-SO

Cross Section



Marking

According to customers' requirements

Description

Rated Temperature (°C)	75
Product Standard Certification	
Flammability Test	CM
Application	
Horizontal Wiring in LAN	
Reference Standard	
EIA/TIA568 & ISO/IEC 11801	

Construction

Conductor	**Solid Bare Copper**
AWG	24
Condcutor Dia. (+0.008/-0.01mm)	0.480
Insulation	**HDPE**
Average Thickness(±0.03mm)	0.22
Min. Point Thickness(mm)	0.24
Insulation Dia.(±0.03mm)	1.035
Twisting Lay Length(mm)	30underneath
Cabling Lay Length(±20mm)	80±5
Polyester	
Drain wire	**Tinned Copper**
AL foil	
Inner Jacket	PVC
Outer Jacket	**LLDPE**
Average Thickness(±0.05mm)	0.5
Min. Point Thickness(mm)	0.4
Outer Dia.(±0.4mm)	5.90
Rip Cord	Per request

Color

Insulation colors are:

Blue,White/Blue
Orange,White/Orange
Green,White/Green
Brown,White/Brown

Jacket colors:

Grey

Packing

Revision History: Rev:0

Performance

Electrical Characteristics:

Frequency (MHz)	Return loss (dB)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB)
0.772	19.4	1.8	67.0	65
1	20.0	2.0	65.3	63
4	23.0	4.1	56.3	52
8	24.5	5.8	51.8	46
10	25.0	6.5	50.3	44
16	25.0	8.2	47.3	39
20	25.0	9.3	45.8	37
25	24.3	10.4	44.3	34
31.25	23.6	11.7	42.9	31
62.5	21.5	17.0	38.4	21
100	20.1	22.0	35.3	13

Frequency (MHz)	PSNEXT (dB)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	Delay (ns/100m)
0.772	64.0	66.0	63.0	575.0
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
10	47.3	43.8	40.8	545.4
16	44.3	39.7	36.7	543.0
20	42.8	37.7	34.7	542.0
25	41.3	35.8	32.8	541.2
31.25	39.9	33.9	30.9	540.4
62.5	35.4	27.8	24.8	538.6
100	32.3	23.8	20.8	537.6

1.0-100.0MHz	Impedance (ohms)			100 ± 15
1.0-100.0MHz	Delay Skew (ns/100m)			<=45
Pair-to-Ground Capacitance Unbalance (pF/100m)				<=330
Max. Conductor DC Resistance 20°C (ohms/km)				93.8
Resistance Unbalance (%)				<=5

Mechanical Characteristics:

Test Object				**Jacket**
Test Material				PE
Before	Tensile Strength (Mpa)			>=13.8
Aging	Elongation (%)			>=100
Aging Condition (°Cxhrs)				100x240
After	Tensile Strength (Mpa)			>=85% of unaged
Aging	Elongation (%)			>=50% of unaged
Cold Bend(-20±2°Cx4hrs)				No crack