



Technical Specifications
Product Line: 24-4P-P-L7SH

Description

4 pair 22 AWG solid, twisted and individually shielded pair cable with an overall braided shield NEC type CMP and CEC type CMP FT6. Third party verified to ISO 11801 Class F (Category 7) performance. Product manufactured compliant to the requirements of UL444 for installations and applications in accordance with NEC articles 725 and 800.

Conductor

22 AWG
Solid annealed bare copper conductors
Diameter: 0.026" | 0.66mm

Electrical

DC resistance: $\leq 28.59 \Omega / 1000'$ | $93.8 \Omega/KM$
DCR Unbalance: $\leq 2.0 \%$
Capacitance: 17.0 pF/FT | 56.0 pF/M
Impedance: $100 \pm 15 \Omega$
Propagation Delay (Skew): 25ns/100m MAX
Velocity of Propagation: 71%
Voltage rating: 300V
Pair to ground capacitance Unbalance: $\leq 160 \text{ pF/100M}$
Maximum current: 1.4A@25°C

Insulation

Foam Fluoropolymer
Wall thickness: 0.018" | 0.46mm
Diameter: 0.062" | 1.57mm

Regulatory

ISO 11801 Class F (Category 7)
NEC: CMP 75°C
CEC: CMP FT6 60°C
EU RoHS-2 2011/65/EU Compliant

Color Code

Pair 1: Orange, White/orange stripe
Pair 2: Blue, White/blue stripe
Pair 3: Green, White/green stripe
Pair 4: Brown, White/brown stripe

Packages

Reel: 1000' | 305M
Weight: 60 Lbs/1000' | 89 Kg/KM

Assembly

Pairs twisted in varying lay lengths with co-extruded like striped conductor
4 twisted shielded pairs cabled on a common axis
overall braided shield over construction

Installation

Pull Tension: 25 Lbs | 111 N
Bend radius: 3.35" | 86mm unloaded
Bend radius: 6.70" | 172mm loaded

Construct

Ripcord under jacket

Applications

LAN systems 10/100/1000/10G BaseT
Phone, Voice, Video over IP and security video
BALUN support and media infrastructure
Infrared, audio
HDBaseT 4K Video 30/60Hz+

Shield

Each pair aluminum/polyester tape foil out
65% 16/6/38 AWG tinned copper braid overall shield

Performance

LAN: 300 feet
Passive Baluns up to 2500 feet



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Jacket	Final Outside Diameter (inches)
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Plenum rated polyvinyl chloride	0.335
Colors: Blue	
Wall thickness: 0.026" 0.66mm	
Diameter: 0.335" 8.51mm	

Specification Revision Date:	12/17/2014
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Category 7 Performance Chart

FREQ (MHz)	Attenuation (dB/100m)	NEXT (dB)	PSNEXT (dB)	ACR (dB/100m)	PSACR (dB/100m)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	RL (dB)
	Max.	Min.	Min.	Min.	Min.	Min.	Min.	Min.
4.0	3.7	78.0	75.0	74.3	71.3	78.0	75.0	23.0
8.0	5.2	78.0	75.0	72.8	69.8	75.9	72.9	24.5
10.0	5.9	78.0	75.0	72.1	69.1	74.0	71.0	25.0
16.0	7.4	78.0	75.0	70.6	67.6	69.9	66.9	25.0
20.0	8.3	78.0	75.0	69.7	66.7	68.0	65.0	25.0
25.0	9.3	78.0	75.0	68.7	65.7	66.0	63.0	24.3
31.25	10.4	78.0	75.0	67.6	64.6	64.1	61.1	23.6
62.5	14.9	75.5	72.5	60.6	57.6	58.1	55.1	21.5
100.0	19.0	72.4	69.4	53.4	50.4	54.0	51.0	20.1
150.0	23.6	69.8	66.8	46.2	43.2	50.2	47.2	18.8
200.0	27.5	67.9	64.9	40.4	37.4	48.0	45.0	18.0
250.0	31.0	66.4	63.4	35.4	32.4	46.0	43.0	17.3
300.0	34.2	65.2	62.2	31.0	28.0	44.5	41.5	17.3
600.0	50.1	60.7	57.7	10.6	7.6	38.4	35.4	17.3