

RUN WITH US

Technical Specifications Product Line: 24-4P-L7SH

Description

4 pair 23 AWG solid, twisted and individually shielded pair cable with an overall braided shield NEC type CM and CEC type CMG FT4. 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	Electrical
23 AWG Solid annealed bare copper conductors Diameter: 0.023" 0.59mm	DC resistance: ≤ 28.59 Ω / 1000' 93.8 Ω/KM DCR Unbalance: ≤ 2.0 % Capacitance: 17.0 pF/FT 56.0 pF/M Impedance: 100 ± 15 Ω Propagation Delay (Skew): 25ns/100m MAX Velocity of Propagation: 74% Voltage rating: 300V Pair to ground capacitance Unbalance: ≤ 330 pF/100M
Insulation	Maximum current: 1.4A@25°C Regulatory
Foam polyethylene Wall thickness: 0.016" 0.40mm Diameter: 0.055" 1.40mm	ISO 11801 Class F (Category 7) NEC: CM 75 °C CEC: CMG FT4 60 °C EU RoHS-2 2011/65/EU Compliant
Color Code	Packages
Pair 1: Orange, White/orange stripe Pair 2: Blue, White/blue stripe Pair 3: Green, White/green stripe Pair 4: Brown, White/brown stripe	Reel: 1000' 305M Weight: 50 Lbs/1000' 75 Kg/KM
Assembly	Installation
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	Pull Tension: 25 Lbs 111 N Bend radius: 3.15" 80mm unloaded Bend radius: 6.30" 160mm loaded
Construct	Applications
Ripcord under jacket	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	Performance
Each pair aluminum/polyester tape foil out 65% 16/8/38 AWG tinned copper braid overall shield 26 AWG solid tinned copper drain	LAN: 300 feet Passive Baluns up to 2500 feet







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Jacket		Final Outside Diameter (inches)
Flame rated polyvinyl chloride Colors: Blue Wall thickness: 0.023" 0.59mm Diameter: 0.315" 8.00mm		0.315
Specification Revision Date:		July 22, 2014

Category 7 Performance Chart

FREQ	Attenuation	NEXT	PSNEXT	ACR	PSACR	ELFEXT	PSELFEXT	RL
(MHz)	(dB/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(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

