Technical Data Sheet-Category 6 Network



WEST PENN WIRE

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PART NUMBER:	4246
DESCRIPTION:	23 AWG 4 PAIR Solid bare copper conductors, unshielded with an overall jacket.
NEC RATING:	CMR
APPROVALS:	(UL) C(UL) Listed or c(ETL)us Listed
APPLICATION:	Indoor - Category 5E/6 Applications- Ethernet, IP Cameras, Digital Integration Meets or exceeds TIA/EIA 568B.2.1 Category 6 Specifications

Construction Parameters:

Conductor 23 AWG Bare Copper Stranding Solid Number of Conductors 8 (4 Pair) Insulation Thermoplastic - .008" Shield None Drain None Core Separator Yes Jacket Material PVC **Overall Cable Diameter** 0.225" Nom. 30 Lbs/1M' Nom. Approximate Cable Weight Flame Rating UL1666

Electrical & Environmental Properties:

Operating Temperature Rating Operating Voltage Rating DC Resistance per Conductor @ 20deg C Mutual Capacitance Nominal Impedance Velocity of Propogation Delay Skew Standards Insulation Colors

Jacket Color

RoHS Compliant

-20°C To +60°C 300 V RMS 7.8 Ohms/100m Nom. 14pf/ft Nominal 100 Ohms+/-15% (1-100Mhz) 66% Nominal 45ns/100m MAX TIA/EIA568-B.2 1 1.Blue/White-Blue, 2. Orange/White-Orange 3. Green/White-Blue, 2. Orange/White-Orange 3. Green/White-Green, 4. Brown/White-Brown Gray, White, Blue – Other Colors Available Example: 4246-BL Yes

Electrical Specifications:

Frequency: MHz	1	10	25	100	250	_ 400
Insertion Loss: dB/100m	1.8	5.7	9.1	19.0	31.5	41.3
NEXT: dB/100m	74.3	59.3	53.3	44.3	38.3	35.3
ACR: dB/100m	72.3	53.3	46.3	24.5	5.5	
PS-NEXT: dB/100m	72.3	57.3	51.3	42.3	36.3	_ 33.3
PS-ACR: dB/100m	70.3.	51.3	41.8	22.5	3.5	
ELFEXT: dB/100m	67.8	47.8	39.8	27.8	19.8	15.8
PS-ELFEXT: dB/100m	64.8	44.8	36.8	24.8	16.8	12.8
RL: dB	20	25	24.3	20.1	17.3	15.9
Operating Temp	-20 C t	o +60 C				

20 C to $+60 C$
20 C to +75 C
C to + 60 C
5ns/100m Max
)

Mechanical Properties:

Max. Recommended Pull Tension Min. Bend Radius (Install)

Accessories:

Connectors: Jacks	Connectors: Plug	gs	Boots
KJ458MT-C6C-xx	32-6EZP -	EZ Plugs	32-1900-xx - xx: Colors
Xx: BK,BU, WH, YE, RD	32-6198UL	Cat 6	
	Tools:		
	TL-135	110 Punch down t	cool
	TL-114	Crimp Tool	
	TL-EZRJ45	Crimp Tool – EZ	Plugs

Cable Assemblies:

C6C-114CC-xx CC: Color: BK, BU, GY, RD, WH, YE xx: Length Footage: 3,7,10,15,20,25

Patch Panels:

12458MD-C6C	12 Port
24458MC-C6C	24 Port
48458MD-C6C	48 Port

Specification Issue Date: 11/12

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25 lbs.

1.00"