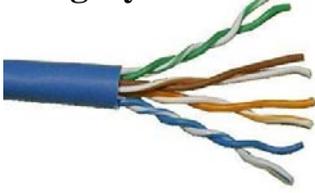


Technical Data Sheet- Category 5E Network



WEST PENN WIRE

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PART NUMBER:	4245
DESCRIPTION:	24 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 Applications- Ethernet, IP Cameras, Digital Integration Meets TIA/EIA 568B.2 Category 5e Specifications

Construction Parameters:

Conductor	24 AWG Bare Copper
Stranding	Solid
Number of Conductors	8 (4 Pair)
Insulation	Thermoplastic - .008"
Shield	None
Drain	None
Jacket Material	PVC
Overall Cable Diameter	0.202" Nom.
Approximate Cable Weight	23 Lbs/1M' Nom.
Flame Rating	UL 1666

Electrical & Environmental Properties:

Operating Temperature Rating	-20°C To +60°C
Operating Voltage Rating	300 V RMS
DC Resistance per Conductor @ 20deg C	9.38 Ohms/100m Nom.
Mutual Capacitance	14pf/ft Nominal
Nominal Impedance	100 Ohms+/-15% (1-100Mhz)
Velocity of Propagation	66% Nominal
Delay Skew	45ns/100m MAX
Standards	TIA/EIA568-B.2
Insulation Colors	1.Blue/White-Blue, 2. Orange/White-Orange 3. Green/White-Green, 4. Brown/White-Brown GY,BL,WH,BK,GN,OR, YE,PK,RD,VT,SGN
Jacket Color	Example: 4245-GY
RoHS Compliant	Yes

Electrical Specifications:

Frequency: MHz	1	10	25	100	200	350
Insertion Loss: dB/100m	2.0	6.5	10.4	22.0	28.8	16.3
NEXT: dB/100m	65.3	50.3	44.3	35.3	30.8	27.5
ACR: dB/100m	63.3	43.8	33.9	13.3	--	
PS-NEXT: dB/100m	62.3	47.3	41.3	32.3	27.8	24.2
PS-ACR: dB/100m	60.3	40.8	30.9	10.3	--	--
ELFEXT: dB/100m	63.8	43.8	35.8	23.8	17.8	
PS-ELFEXT: dB/100m	60.8	40.8	32.8	20.8	14.8	
RL: dB	20	25	24.3	20.1	18	16.3

Mechanical Properties:

Max. Recommended Pull Tension

25 lbs.

Min. Bend Radius (Install)

4x cable OD- 1inch Min.

Accessories:

Connectors: Jacks

KJ458MT-C5E-xx

Xx: BK,BU, WH, YE, RD

Connectors: Plugs

32-EZP –

EZ Plugs 5E

32-5198UL

Cat 5E

Boots

32-1900-xx – xx: Colors

Tools:

TL-135

110 Punch down tool

TL-EZRJ45PROCT

Crimp Tool

Cable Assemblies:

C5EC-114CC-xx

CC: Color: BK, BU, GY, RD, WH, YE

Xx: Length Footage: 3,7,10,15,20,25

Patch Panels:

12458MD-C5E 12 port Cat5E Patch Panel

24458MD-C5E 24 port Cat5E Patch Panel

48458MD-C5E 48 port Cat 5E Patch Panel

Specification Issue Date: 11/12

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Standard Lengths are 1000ft.
The Jacket is sequentially footmarked.
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