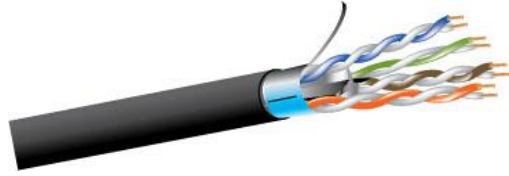


# Technical Data Sheet- Category 5E F/UTP Network



2833 West Chestnut Street  
Washington, PA 15301  
Toll Free: (800) 245-4964  
Fax: (724) 222-6420  
www.westpenn-wpw.com



<b>PART NUMBER:</b>	<b>4245F</b>	<b>Replaces: M58145 and M58196</b>
<b>DESCRIPTION:</b>	24 AWG.- 4 PAIR Solid bare copper conductors, Shielded with an overall jacket.	
<b>NEC RATING:</b>	CMR	
<b>APPROVALS:</b>	(UL) C(UL) Listed or c(ETL)us Listed	
<b>APPLICATION:</b>	Indoor - Category 5E Applications- Ethernet, IP Cameras, Digital Integration Meets TIA/EIA 568C.2 Category 5e Specifications	

## Construction Parameters:

Conductor	24 AWG Bare Copper
Stranding	Solid
Number of Conductors	8 (4 Pair)
Insulation	Thermoplastic
Shield	100% Foil with overlap
Drain	Yes 24AWG Tinned Copper
Jacket Material	PVC
Overall Cable Diameter	0.232" Nom.
Approximate Cable Weight	30 Lbs/1M' Nom.
Flame Rating	UL Riser Test

## 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	72% Nominal
Delay Skew	30ns/100m MAX
Standards	TIA/EIA568-C.2
Insulation Colors	1. Blue/White-Blue, 2. Orange/White-Orange 3. Green/White-Green, 4. Brown/White-Brown Gray and Blue
Jacket Color	Yes
RoHS Compliant	

## Electrical Specifications:

Frequency: MHz	1	10	25	100	200	350
Insertion Loss: dB/100m	1.8	5.8	9.3	19.6	28.8	40.0
NEXT: dB/100m	80	64	59	50	46	43
ACR: dB/100m	70.3	50.9	41.1	40.3	35.8	32.1
PS-NEXT: dB/100m	73	58	52	43	40	36
PS-ACR: dB/100m	66.3	46.9	37.1	17.3	3.3	-
ELFEXT: dB/100m	67.8	47.8	39.8	27.8	21.8	16.9
PS-ELFEXT: dB/100m	64.8	25	36.8	24.8	18.8	13.9
RL: dB	20	25	24.3	20.1	18	16.3

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## Mechanical Properties:

Max. Recommended Pull Tension

25 lbs.

Min. Bend Radius (Install)

4x cable OD- 1inch Min.

## Accessories:

### Connectors: Jacks

KJS458TL-C5E – Cat5E F/UTP Jack

### Connectors: Plugs

CN-EZSTP-EG Cat 5E RJ45 Shielded with External Ground  
32-1900-xx Colored boots

### Tools:

TL-135

110 Punch down tool

TL-EZRJ45PROCT

EZ Crimp Tool

TL-114

Crimp Tool for 32-2198UL

Specification Issue Date: 4/12

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