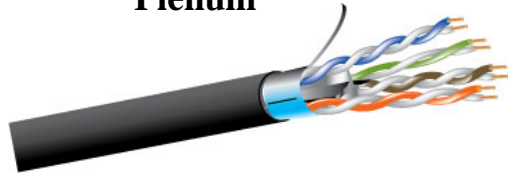


# Technical Data Sheet- Category 5E F/UTP Network Plenum

## WEST PENN WIRE

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



<b>PART NUMBER:</b>	<b>254245F</b>	<b>Replaces: M58144 and M58186</b>
<b>DESCRIPTION:</b>	24 AWG.- 4 PAIR Solid bare copper conductors, Shielded with an overall jacket.	
<b>NEC RATING:</b>	CMP	
<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 568B.2 Category 5e Specifications	

### Construction Parameters:

Conductor	24 AWG Bare Copper
Stranding	Solid
Number of Conductors	8 (4 Pair)
Insulation	FEP
Shield	100% Foil with overlap
Drain	Yes 24AWG Tinned Copper
Jacket Material	PVC
Overall Cable Diameter	0.218" Nom.
Approximate Cable Weight	31 Lbs/1M' Nom.
Flame Rating	UL 262

### 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-B.2
Insulation Colors	1.Blue/White-Blue, 2. Orange/White-Orange 3. Green/White-Green, 4. Brown/White-Brown
Jacket Color	Gray and Blue
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

KJS458TL-C5E – Cat5E F/UTP Jack

### Connectors: Plugs

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

### Assemblies:

C5ES-314GY-xxFB  
xx: 3.7.10.15.20.25

### Tools:

TL-135 110 Punch down tool  
TL-EZRJ45PROCT EZ Crimp Tool  
TL-114 Crimp Tool for 32-2198UL

### Patch Panel:

24458S-C5E Cat5E F/UTP 24 port Panel

Specification Issue Date: 10/13

This document is the property of West Penn Wire.  
The information contained herein is considered  
Proprietary and not to be reproduced by any means  
Without written consent of West Penn Wire

Standard Lengths are 1000ft.  
The Jacket is sequentially footmarked.  
The information presented here is, to the best of our  
knowledge, is true and accurate. However, since  
conditions of use are beyond our control, all  
recommendations or suggestions are presented  
without guarantee or responsibility on our part. We  
disclaim all liability in connection with the use of  
information contained herein or otherwise.