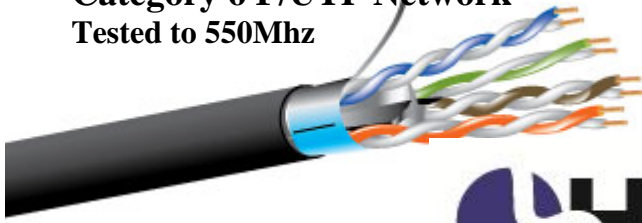


**Technical Data Sheet-
Category 6 F/UTP Network
Tested to 550Mhz**

WEST PENN WIRE



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



PART NUMBER:	254246F	Replaces: M58183
DESCRIPTION:	23 AWG.- 4 PAIR Solid bare copper conductors, Shielded with an overall jacket.	
NEC RATING:	CMP	
APPROVALS:	C(UL)us or ETL Listed	
APPLICATION:	Indoor - Category 6 Applications- Ethernet, IP Cameras, Digital Integration, DVI,HDMI Meets or exceeds TIA/EIA 568C.2 Category 6 Specifications	

Construction Parameters:

Conductor	23 AWG Bare Copper
Stranding	Solid
Number of Conductors	8 (4 Pair)
Insulation	FEP
Barrier	Internal FlexWeb Core Separator
Shield-Screen	100% Aluminum Foil -25% overlap
Drain	24 AWG Solid Tin
Core Separator	Yes
Jacket Material	Plenum PVC
Overall Cable Diameter	0.283" Nom.
Approximate Cable Weight	44 Lbs/1M' Nom.
Flame Rating	UL-NFPA 262

Electrical & Environmental Properties:

Operating Temperature Rating	-20°C To +60°C
Operating Voltage Rating	300 V RMS
DC Resistance per Conductor @ 20deg C	20.4 ohms/1000ft
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
Jacket Color	Black
RoHS Compliant	Yes

Electrical Specifications:

Frequency: MHz	1	10	31.25	100	250	500	550	650
Insertion Loss: dB/100m	1.9	5.6	10.0	18.5	30.7	45.7	48.4	53.5
NEXT: dB/100m	74.3	59.3	51.9	44.3	38.3	33.8	33.2	32.1
ACR: dB/100m	72.3	53.3	41.2	24.5	5.5	--	--	
PS-NEXT: dB/100m	72.3	57.3	49.9	42.3	36.3	31.8	31.2	30.1
PS-ACR: dB/100m	70.3	51.3	39.2	22.5	3.5	--	--	
ELFEXT: dB/100m	70.0	50.0	40.1	30.0	22.0	16.0	--	
PS-ELFEXT: dB/100m	68.0	48.0	38.1	28.0	20.0	14.0	--	
RL: dB	20	25	23.6	20.1	17.3	15.2	14.9	14.4
Operating Temp	-20 C to +60 C							
Storage Temp	-20 C to +75 C							
Installation Temp	0 C to + 60 C							
Delay Skew	30ns/100m Max							

Mechanical Properties:

Max. Recommended Pull Tension	25 lbs.
Min. Bend Radius (Install)	1.00"

Accessories:

Connectors: Jacks
KJS458TL-C6C

Connectors: Plugs
CN-111S90H34 – LOADING BAR –
106190 – LOADING BAR REQUIRES SPECIAL CRIMP TOOL
90170 – Kit: Includes 100 (106190)+12515C Crimp Tool+ 12360C External Ground Crimp Tool+ 15010C Strip Tool

Cable Boots:
CN-B0051 – Black

Assemblies:
C6CS-314GY-xxFB
xx: 3,7,10,15,20,25 feet

Patch Panels:
24458S-C6C – 24 port Cat6 F/UTP Panel

CN-254246F-xx
xx: 50,75,100,125,150 or Longer

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.