

**Technical Data Sheet-
Category 6A F/UTP Network
Tested to 750Mhz**



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

PART NUMBER:	254246AF	Replaces: M58892
DESCRIPTION:	23 AWG.- 4 PAIR Solid bare copper conductors, Shielded with an overall jacket.	
NEC RATING:	CMP	
APPROVALS:	C(UL)Us or ETL Listed HDBaseT Certified	
APPLICATION:	Indoor - 10G - Category 6A Applications- Ethernet, IP Cameras, Digital Integration, DVI,HDMI Meets or exceeds TIA/EIA 568C.2 Category 6A 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	26 AWG Solid Tin
Core Separator	Yes
Jacket Material	Plenum PVC
Overall Cable Diameter	0.305" Nom.
Approximate Cable Weight	48 Lbs/1M' Nom.
Flame Rating	NFPA262

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	70% Nominal
Delay Skew	45ns/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	<u>1</u>	<u>10</u>	<u>31.25</u>	<u>100</u>	<u>250</u>	<u>400</u>	<u>500</u>	<u>750</u>
Insertion Loss: dB/100m	2.1	5.9	10.5	19.1	31.1	40.1	45.3	
NEXT: dB/100m	74.3	59.3	51.9	44.3	38.3	35.3	33.8	
PS-NEXT: dB/100m	72.3	57.3	49.9	42.3	36.3	33.3	31.8	
ACRF: dB/100m	67.8	47.8	37.9	27.8	19.8	15.8	13.8	
PS-ACRF: dB/100m	64.8	44.8	34.9	24.8	16.8	12.8	10.8	
Prop.Delay:ns/100m	570	545.4	540.4	537.6	536.3	535.5	535.4	
PS-ANEXT: dB/100m	67.0	67.0	67.0	62.5	56.5	53.5	52.0	
PS-AACRF: dB/100m	67.0	58.2	48.3	38.2	30.2	26.2	24.2	
RL: dB	20	25	23.6	20.1	17.3	15.9	15.2	

Operating Temp	-20 C to +60 C
Storage Temp	-20 C to +75 C
Installation Temp	0 C to + 60 C
Delay Skew	45ns/100m Max

Mechanical Properties:

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

Accessories:

Connectors: Jacks
KJS458TL-C6A

Connectors: Plugs
90170-BI – Plug Installation Kit

Specification Issue Date: 7/13

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