



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

4246F Replaces: M58163 **PART NUMBER:**

DESCRIPTION: 23 AWG.- 4 PAIR Solid bare copper conductors, Shielded with an overall jacket.

NEC RATING: CMR

APPROVALS: C(UL)Us or ETL Listed - HDBaseT Certified

APPLICATION: Indoor - Category 6 Applications- Ethernet, IP Cameras, Digital Integration, DVI, HDMI

Meets or exceeds TIA/EIA 568C.2 Category 6 Specifications

-20°C To +60°C

300 V RMS

Construction Parameters:

Conductor 23 AWG Bare Copper

Stranding Solid Number of Conductors 8 (4 Pair)

Insulation Thermoplastic

Internal FlexWeb Core Separator Barrier Shield-Screen 100% Aluminum Foil -25% overlap

24 AWG Solid Tin Drain

Core Separator Yes Jacket Material PVC

Overall Cable Diameter 0.290" Nom. Approximate Cable Weight 43 Lbs/1M' Nom. UL-1666

Flame Rating

Electrical & Environmental Properties:

Operating Temperature Rating Operating Voltage Rating

20.4 Ohms/1000ft DC Resistance per Conductor @ 20deg C Mutual Capacitance 14pf/ft Nominal

Nominal Impedance 100 Ohms+/-15% (1-100Mhz) Velocity of Propagation 68% 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
Insertion Loss: dB/100m	1.9	5.6	10.0	18.5	30.7	45.7	48.4
NEXT: dB/100m	74.3	59.3	51.9	44.3	38.3	33.8	33.2
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
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

 $\begin{array}{lll} \text{Operating Temp} & -20 \text{ C to } +60 \text{ C} \\ \text{Storage Temp} & -20 \text{ C to } +75 \text{ C} \\ \text{Installation Temp} & 0 \text{ C to } +60 \text{ C} \\ \text{Delay Skew} & 30 \text{ns}/100 \text{m Max} \\ \end{array}$

Mechanical Properties:

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

Accessories:

Connectors: Jacks KJS458TL-C6C Connectors: Plugs CN-111S90H34 – L

CN-111S90H34 – LOADING BAR –

90170-BI – Plug Installation Kit- Recommended

Cable Boots: CN-B0051 - Black

Specification Issue Date: 7/13

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