Technical Data Sheet-
Category 5E F/UTP Network

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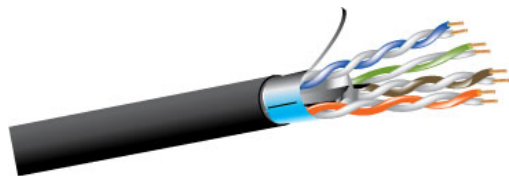
PART NUMBER:	**4245F** **Replaces: M58145 and M58196**
DESCRIPTION:	24 AWG.- 4 PAIR Solid bare copper conductors, Shielded with an overall jacket.
NEC RATING:	CMR
APPROVALS:	(UL) C(UL) Listed or c(ETL)us Listed
APPLICATION:	Indoor - Category 5E Applications- Ethernet, IP Cameras, Digital Integration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

Construction Parameters:

Conductor	24 AWG Bare Copper
Stranding	Solid
Number of Conductors	8 (4 Pair)
Insulation	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-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

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