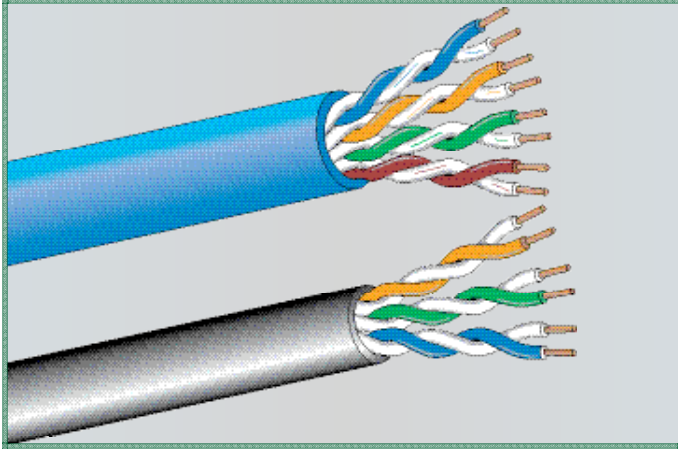


LAN Cable

WEST PENN WIRE



West Penn Wire Local Area Network (LAN) Cable is designed to meet the requirements of TIA/EIA Networking Cabling Standards.

West Penn Wire engineers have designed this LAN cable to meet the most demanding application requirements, such as fast rise-time, low signal distortion, high transmission rates and small propagation delay. Manufacturing this type of cable requires expert engineering and careful selection of materials that meet the stringent requirements of FCC regulations.

For more detailed information on our LAN Cables, contact our Customer Service Department at: **1-800-245-4964**, or e-mail us at sales@westpenn-wpw.com. Information can also be found on our website- www.westpenn-wpw.com

Mini Index

Local Area Network (LAN) Cables

2 & 3 Pair Category 3 Digital Integration Cables.....	112
2 & 3 Pair Category 5 Digital Integration Cables.....	113
Category 5E - 4 Pair	114
Category 6 - 4 Pair	115
Outdoor/ Outside Plant Category 5E & Category 6.....	116
Indoor/Outdoor Category 5E	116
High Pair Count Category 3	117
High Pair Count Category 5E.....	118



Over 95% of West Penn Wire cables are RoHS Compliant. For a detailed specification on individual products, contact our engineering department.

LAN Cable

WEST PENN WIRE



LAN Cables 2 & 3 Pair Category 3

Description:

- ASTM Solid Bare Copper • Plenum and Non-Plenum Versions
- Unshielded Twisted Pair Construction • Overall Jacket

Rating:

- NEC Type CM and CMP
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1685 and NFPA262 Smoke & Flame Test
- Meets Category 3- TIA/EIA 568A

Applications:

- Indoor for:
- Analog and Digital Voice
 - ISDN
 - Digital Integration
 - Ethernet 10BaseT

Standard pool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance & Impedance	Jacket Color
			Inches		Inches	Inches			
WP54982	2 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic .008	None UTP	PVC	.118	CM	Nom. Cap. 18 pf/ft* Nom. Imp 100Ω	Gray
WP54983	3 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic .008	None UTP	PVC	.155	CM	Nom. Cap. 18 pf/ft* Nom. Imp 100Ω	Gray
WP54980	3 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic Plenum .008	None UTP	Plenum Thermo-Plastic	.141	CMP	Nom. Cap. 18 pf/ft* Nom. Imp 100Ω	Gray

Electrical Specifications

Color Code		
Pair No.	1st Cond. Base/Band	2nd Cond.
1	White/Blue	Blue
2	White/Orange	Orange
3	White/Green	Green
JACKET: Gray		

Frequency (MHz)	Attenuation Max dB/1000'	Crosstalk NEXT dB/1000'
.064	2.80	--
.150	--	54
.256	4.00	--
.512	5.60	--
.772	6.80	40
1.00	7.80	41
4.00	17.00	32
8.00	26.00	28
10.00	30.00	26
16.00	40.00	23

LAN Cable

LAN Cables

2 & 3 Pair Category 5

Applications:

Indoor for:

- Analog and Digital Voice
- ISDN
- Digital Integration
- Ethernet 10BaseT



Description:

- ASTM Solid Bare Copper • Plenum and Non-Plenum Versions
- Unshielded Twisted Pair Construction • Overall Jacket

Rating:

- NEC Type CMR and CMP
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666 and NFPA262 Smoke & Flame Test
- Meets Category 5- TIA/EIA 568A

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance & Impedance	Jacket Color
			Inches		Inches				
WP55253	2 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic Polyolefin .008	None UTP	PVC	.161	CMR	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Gray
WP55826	2 Pair	24 AWG Solid 26 Ω/Mft	FEP .008	None UTP	Plenum PVC	.148	CMP	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Gray
WP55254	3 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic Polyolefin .008	None UTP	PVC	.178	CMR	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Gray
WP55827	3 Pair	24 AWG Solid 26 Ω/Mft	FEP .008	None UTP	Plenum PVC	.168	CMP	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Gray

Color Code		
Pair No.	1st Cond. Base/Band	2nd Cond.
1	White/Blue	Blue
2	White/Orange	Orange
3	White/Green	Green
JACKET: Gray		

LAN Cable

WEST PENN WIRE



LAN Cables

Category 5E - Enhanced - Digital Integration

Description:

- ASTM Solid Bare Copper • Plenum and Non-Plenum Versions
- 4 Pair Unshielded Twisted Pair Construction • Overall Jacket

Rating:

- NEC Type CMR and CMP
- (UL)-C(UL) Listed • (ETL)us - c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666 and NFPA262 Smoke & Flame Test
- TIA/EIA 568-B.2 Cat 5E- Horizontal Cable

Applications:

Indoor for:

- Analog and Digital Voice
- ISDN
- Digital Integration
- Ethernet 100BaseT
- Higher Performance Ethernet Applications



Verified by ETL to TIA/EIA-568-B.2

Standard pool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance & Impedance	Jacket Color
4245	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic .008	None UTP	PVC	.209	CMR	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Gray, White, Blue
254245	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic Plenum .008	None UTP	Plenum Thermo-Plastic	.202	CMP	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Gray, White, Blue

Electrical Specifications Category 5E

Freq. (MHz)	Attn. Avg. dB/100m	Crosstalk NEXT dB/100m	Min. ACR dB/100m	Min. PS-NEXT dB/100m	Min. PS-ACR dB/100m	Min. ELFEXT dB/100m	Min. PS-ELFEXT dB/100m	Min. SRL dB
.772	1.6	72.0	72.2	70.0	68.2	--	--	--
1.00	1.8	70.3	70.3	68.3	66.3	67.8	64.8	20.0
4.00	3.6	61.3	59.3	59.3	55.3	55.8	52.8	23.0
8.00	5.2	56.8	53.1	54.8	49.1	49.7	46.7	24.5
10.00	5.8	55.3	50.9	53.3	46.9	47.8	44.8	25.0
16.00	7.3	52.2	46.1	50.2	42.1	43.7	40.7	25.0
20.00	8.3	50.8	43.7	48.8	39.7	41.8	38.8	25.0
25.00	9.3	49.3	41.1	47.3	37.1	39.8	36.8	24.3
31.25	10.4	47.9	38.5	45.9	34.5	37.9	34.9	23.6
62.50	15.1	43.4	29.0	41.4	25.0	31.9	28.9	21.5
100	19.6	40.3	21.3	38.3	17.3	27.8	24.8	20.1
155	25.0	37.4	12.9	35.4	8.9	24.0	21.0	18.8
200	38.8	35.8	7.3	33.8	33	21.8	18.8	18.0

Values above 100MHz are for Engineering Purposes

Physical Characteristics	
Cable Weight	PL- 23 lbs/1000ft NPL- 20 lbs/1000ft
Bend Radius	1" Min (4 x Cable O.D.)
Nom. Vel. of Prop.	PL- 72% NPL - 67%
Pulling Tension	25 lbf Max.

Color Code		
Pair No.	1st Cond. Base/Band	2nd Cond.
1	White/Blue	Blue
2	White/Orange	Orange
3	White/Green	Green
4	White/Brown	Brown
JACKET: Gray, Blue, White		

LAN Cable

LAN Cables

Category 6- Digital Integration



Applications:

Indoor for:

- Analog and Digital Voice
- ISDN
- Digital Integration
- Ethernet 100BaseT
- Higher Performance Ethernet Applications

Description:

- ASTM Solid Bare Copper • Plenum and Non-Plenum Versions • 4 Pair Unshielded Twisted Pair Construction
- Overall Jacket

Rating:

- NEC Type CMR and CMP
- (UL)-C(UL) Listed • (ETL)us - c(ETL)us Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666 and NFPA262 Smoke & Flame Test
- TIA/EIA 568-B.2-1 Cat 6- Horizontal Cable



Verified by ETL to TIA/EIA-568-B.2

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance & Impedance	Jacket Color
4246	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic .008	None UTP	PVC	.209	CMR	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Gray, White, Blue
254246	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic Plenum .008	None UTP	Plenum Thermo-Plastic	.202	CMP	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Gray, White, Blue

Electrical Specifications Category 6

Freq. (MHz)	Attn. Avg. dB/100m	Crosstalk NEXT dB/100m	Min. ACR dB/100m	Min. PS-NEXT dB/100m	Min. PS-ACR dB/100m	Min. ELFEXT dB/100m	Min. PS-ELFEXT dB/100m	Min. SRL dB
.772	1.6	76.0	74.2	74.0	72.2	--	--	--
1.00	1.8	74.3	72.3	72.3	70.3	67.8	64.8	20.0
4.00	3.6	65.3	61.5	63.3	59.5	55.8	52.8	23.0
8.00	5.1	60.8	55.5	58.8	53.5	49.7	46.7	24.5
10.00	5.7	59.3	53.3	57.3	51.3	47.8	44.8	25.0
16.00	7.3	56.2	48.6	54.2	46.6	43.7	40.7	25.0
20.00	8.1	54.8	46.3	52.8	44.3	41.8	38.8	25.0
25.00	9.1	53.3	43.8	51.3	41.8	39.8	36.8	24.3
31.25	10.2	51.9	41.2	49.9	39.2	37.9	34.9	23.6
62.50	14.8	47.4	32.0	45.4	30.0	31.9	28.9	21.5
100	19.0	44.3	24.5	42.3	22.5	27.8	24.8	20.1
155	24.2	41.4	16.2	39.4	14.2	24.0	21.0	18.8
200	27.8	39.8	10.8	37.8	8.8	21.8	18.8	18.0
250	31.5	38.3	5.5	36.3	3.5	19.8	16.8	17.3
300	35.0	37.1	.07	35.1	--	18.3	15.3	16.8
350	38.2	36.1	--	34.1	--	16.9	13.9	16.3
400	41.3	35.3	--	33.3	--	15.8	12.8	15.9

Values above 250MHz are for Engineering Purposes

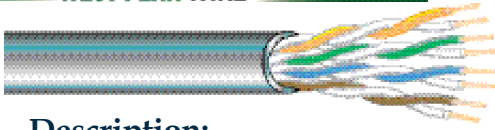
Physical Characteristics	
Cable Weight	PL- 29 lbs/1000ft NPL- 26 lbs/1000ft
Bend Radius	1" Min (4 x Cable O.D.)
Nom. Vel. of Prop.	PL- 72% NPL - 67%
Pulling Tension	25 lbf Max.

Color Code		
Pair No.	1st Cond. Base/Band	2nd Cond.
1	White/Blue	Blue
2	White/Orange	Orange
3	White/Green	Green
4	White/Brown	Brown

JACKET: Grav. Blue. White

LAN Cable

WEST PENN WIRE



LAN Cables

Outside Plant Category 5E & Category 6

Description:

- ASTM Solid Bare Copper • Plenum and Non-Plenum Versions
- 4 Pair Unshielded Twisted Pair Construction • Water-Blocking Gel • Overall Jacket

Rating:

- Outdoor Versions - WP57561 & WP57622
- NEC Type CM Indoor/ Outdoor Version M58762
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1685 (M58762 Only)

Applications:

Indoor for:

- Analog and Digital Voice
- ISDN
- Digital Integration
- Ethernet 100BaseT
- Higher Performance Ethernet Applications

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. O.D. Inches	NEC Type	Nom. Capacitance & Impedance	Jacket Color
			Inches		Inches				
M57561 Category 5E Outdoor	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic .008	None Water-Blocking Gel	UV Resistant Polyethylene .020	.251	--	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	UV Black
M57622 Category 6 Outdoor	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic Plenum .008	None Water-Blocking Gel	UV Resistant Polyethylene .020	.266	--	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	UV Black
M58762 Category 5E Indoor/ Outdoor NEW	4 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic Polyolefin .008	None Water-Blocking Gel	Polyolefin .040	.251	CM Indoor/ Outdoor	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	UV Black

Physical Characteristics	
Bend Radius	1" Min (4 x Cable O.D.)
Nom. Vel. of Prop.	67%
Pulling Tension	25 lbf Max.

Color Code		
Pair No.	1st Cond. Base/Band	2nd Cond.
1	White/Blue	Blue
2	White/Orange	Orange
3	White/Green	Green
4	White/Brown	Brown
JACKET: Black		

NOTES:

M58762- Indoor/ Outdoor CM Rated Cable.
Contains Water-Blocking Gel

LAN Cable

WEST PENN WIRE



LAN Cables

High Pair Count Category 3 Cables

Applications:

Indoor for:

- Analog and Digital Voice
- Voice Backbone Cabling
- Digital Integration

Description:

- ASTM Solid Bare Copper • Plenum and Non-Plenum Versions • Multiple Pair Unshielded Twisted pair construction • Overall Jacket

Rating:

- NEC Type CMR and CMP
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666 and NFPA262 Smoke & Flame Test
- TIA/EIA 568-B

Standard spool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness Inches	Shielding	Jacket Type & Thickness Inches	Nom. O.D. Inches	NEC Type	Nom. Capacitance & Impedance	Jacket Color
M55700 Non-Plenum	25 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic .006	None UTP	PVC Gray	.364	CMR	Nom. Cap. 20 pf/ft* Nom. Imp 100Ω	Lt. Gray
M55216 Non-Plenum	50 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic .006	None UTP	PVC Gray	.591	CMR	Nom. Cap. 18 pf/ft* Nom. Imp 100Ω	Lt. Gray
M55211 Non-Plenum	100 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic .006	None UTP	PVC Gray	.707	CMR	Nom. Cap. 18 pf/ft* Nom. Imp 100Ω	Lt. Gray
M55212 Non-Plenum	200 Pair	24 AWG Solid 26 Ω/Mft	Thermo-Plastic .006	None UTP	PVC Gray	1.054	CMR	Nom. Cap. 20 pf/ft* Nom. Imp 100Ω	Lt. Gray
M56081 Plenum	25 Pair	24 AWG Solid 26 Ω/Mft	Plenum Thermo-Plastic .006	None UTP	Plenum Thermo- plastic Gray	.389	CMP	Nom. Cap. 20 pf/ft* Nom. Imp 100Ω	Lt. Gray
M56126 Plenum	50 Pair	24 AWG Solid 26 Ω/Mft	Plenum Thermo-Plastic .006	None UTP	Plenum Thermo- plastic Gray	.550	CMP	Nom. Cap. 18 pf/ft* Nom. Imp 100Ω	Lt. Gray
M56128 Plenum	100 Pair	24 AWG Solid 26 Ω/Mft	Plenum Thermo-Plastic .006	None UTP	Plenum Thermo- plastic Gray	.786	CMP	Nom. Cap. 18 pf/ft* Nom. Imp 100Ω	Lt. Gray
M56129 Plenum	200 Pair	24 AWG Solid 26 Ω/Mft	Plenum Thermo-Plastic .006	None UTP	Plenum Thermo- plastic Gray	1.088	CMP	Nom. Cap. 20 pf/ft* Nom. Imp 100Ω	Lt. Gray

Physical Characteristics	
Bend Radius	(10 x Cable O.D.)
Nom. Vel. of Prop.	64%
Nom. Impedance Ω	100Ω +/- 15%

Color Code see Page 116

LAN Cable

WEST PENN WIRE



LAN Cables

High Pair Count Category 5E- Enhanced

Description:

- ASTM Solid Bare Copper • Plenum and Non-Plenum versions
- Multiple Pair Unshielded Twisted Pair Construction
- Overall jacket

Rating:

- NEC Type CMR and CMP
- (UL) Listed
- Meets 300V requirements as specified in the NEC
- Flame Rating: UL1666 and NFPA262 Smoke & Flame Test
- TIA/EIA 568-B

Applications:

Indoor for:

- Analog and Digital Voice
- Voice Backbone Cabling
- Digital Integration

Standard pool size 1000ft.

Catalog No.	No. of Pairs	Conductor Type & Nom. D.C.R	Insulation Type & Thickness	Shielding	Jacket Type & Thickness	Nom. O.D.	NEC Type	Nom. Capacitance & Impedance	Jacket Color
			Inches		Inches				
M58141 Category 5E Non-Plenum	25 Pair	24 AWG Solid 26 Ω/Mft	Polyolefin .008	None UTP	Thermo- Plastic Gray	.470	CMR	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Lt. Gray
M58142 Category 5E Plenum	25 Pair	24 AWG Solid 26 Ω/Mft	FEP .008	None UTP	FEP Gray	.430	CMP	Nom. Cap. 14 pf/ft* Nom. Imp 100Ω	Lt. Gray

Color Code

Pair No.	Pair Color Code	
1	White/Blue	Blue-White
2	White/Orange	Orange-White
3	White/Green	Green-White
4	White/Brown	Brown-White
5	White/Gray	Gray-White
6	Red/Blue	Blue-Red
7	Red/Orange	Orange-Red
8	Red/Green	Green-Red
9	Red/Brown	Brown-Red
10	Red/Gray	Gray-Red
11	Black/Blue	Blue-Black
12	Black/Orange	Orange-Black
13	Black/Green	Green-Black
14	Black/Brown	Brown-Black
15	Black/Gray	Gray-Black
16	Yellow/Blue	Blue-Yellow
17	Yellow/Orange	Orange-Yellow
18	Yellow/Green	Green-Yellow
19	Yellow/Brown	Brown-Yellow
20	Yellow/Gray	Gray-Yellow
21	Purple/Blue	Blue-Purple
22	Purple/Orange	Orange-Purple
23	Purple/Green	Green-Purple
24	Purple/Brown	Brown-Purple
25	Purple/Gray	Gray-Purple

Physical Characteristics

Bend Radius	10 x Cable O.D.
Nom. Vel. of Prop.	PL - 72% NPL - 67%
Pulling Tension	150 lbf Max.