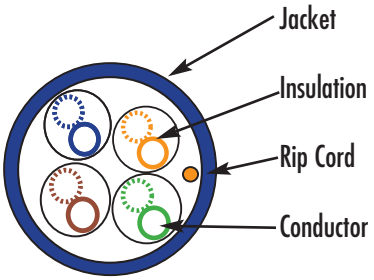
4246

Digital Integration Category 6 Cable

Rev.1. 10/03

Description:

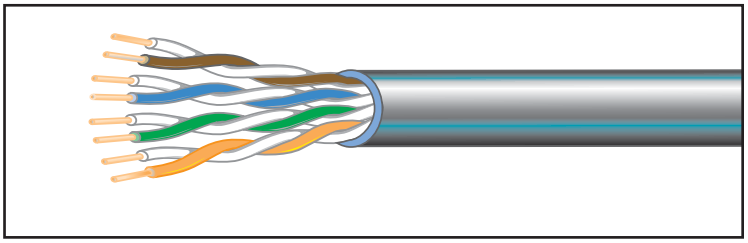
- Multiple pair Category 6 cable
- Enhanced UTP Category Cable
- 4 pair 24AWG unshielded
- Thermoplastic insulation
- Each pair twisted in varied lays
- Thermoplastic jacket



Applications:

High performance horizontal wiring that meets or exceeds industry standards for:

- Analog and Digital voice systems
- Intercom systems
- Security (CCTV) systems
- 10 Base-T, 100 Base-T, and 1000 Base-T
- FDDI TP-PMD
- 16Mbps Token Ring
- Home Networking
- ATM 155Mbps
- 550 Mhz Broadband video and standards under development such as: 622Mbps,1.2 & 2.4Gbps ATM



Color Code:

Pair No.	1st Conductor	2nd Conductor
1	White/Blue	Blue
2	White/Orange	Orange
3	White/Green	Green
4	White/Brown	Brown

Rating:

- UL listed NEC type CMR or MPR as defined in NEC Article 800
- Constructed in accordance with UL Standard 444
- Complies with UL 1666 Vertical Tray Flame Test
- Meets and Exceeds TIA/EIA 568-B.2.1 Category 6 Specifications
- Verified to Category 6 requirements by independent third party testing laboratory

Installation Characteristics:

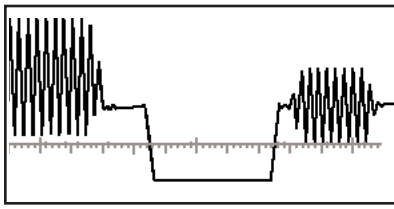
Cable Weight:	30lbs/1000ft (33kg/km)
Bending Radius:	1" (25.4mm)Min (4x Cable O.D.)
Pulling Tension:	25lbf (110N)
Operating Temp:	-34°C to +60°C (-30°F to +140°F)
Storage Temp:	-34°C to +75°C (-30°F to +167°F)
Installation Temp:	-20°C to +60°C (-4°F to +140°F)

Mechanical Characteristics	
Number of Pairs	4
Awg. Size	24
Conductor Type	Solid Bare Copper
Insulation	Thermoplastic
Nom. Jacket Thickness	.020 in (.51mm)
Nom. O.D.	.227 in. (5.77mm)
Jacket Type Color	Gray, Blue

WEST PENN WIRE

2833 West Chestnut Street
Washington, Pennsylvania 15301

Phone: 1-800-245-4964
Fax: 724-222-6420



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Frequency Mhz	ATTENUATION db/100m		NEXT db/100m		ACR* db/100m	PS-NEXT db/100m		PS-ACR db/100m	ELFEXT db/100m	PS-ELFEXT db/100m	RL (db)
	avg.	max.	avg.	min.	min.	avg.	min.	min.	min.	min.	min.
.772	1.6	1.8	90	80.0	78.2	83	78.0	76.2	--	--	--
1.0	1.8	2.0	88	78.3	76.3	81	76.3	74.3	70.0	68.0	20.0
4.0	3.5	3.8	79	69.3	65.5	72	67.3	63.5	58.0	56.0	24.2
8.0	4.9	5.3	75	64.8	59.5	68	62.8	57.5	51.9	49.9	26.3
10.0	5.6	5.9	73	63.3	57.4	66	61.3	55.4	50.0	48.0	27.0
16.0	7.1	7.5	70	60.2	52.7	63	58.2	50.7	45.9	43.9	27.0
20.0	7.9	8.4	69	58.8	50.4	62	56.8	48.4	44.0	42.0	27.0
25.0	8.8	9.4	67	57.3	47.9	60	55.3	45.9	42.0	40.0	26.5
31.25	10.0	10.6	66	55.9	45.3	59	53.9	43.3	40.1	38.1	26.9
62.5	14.3	15.3	61	51.4	36.1	54	49.4	34.1	34.1	32.1	24.2
100.0	18.4	19.7	58	48.3	28.6	51	46.3	26.6	30.0	28.0	23.1
155.0	23.4	25.0	55	45.4	20.4	48	43.4	18.4	26.2	24.2	22.0
200.0	27.0	28.8	54	43.8	15.0	47	41.8	13.0	24.0	22.0	21.4
250.0	30.5	32.6	52	42.3	9.7	45	40.3	7.7	22.0	20.0	20.9
300.0	33.9	36.2	51	41.1	4.9	44	39.1	2.9	20.5	18.5	20.4
350.0	37.0	39.5	50	40.1	.6	43	38.1	--	19.1	17.1	20.1
400.0	40.0	42.7	49	39.3	--	42	37.3	--	--	--	19.7
500.0	45.5	48.6	48	37.8	--	41	35.8	--	--	--	19.2
550.0	48.2	51.5	47	37.2	--	40	35.2	--	--	--	19.0
650.0	53.2	56.8	46	36.1	--	39	35.1	--	--	--	18.6

Values above 350Mhz are for Engineering Purposes only

TIA/EIA 568-B.2-1 CABLE MINIMUM SPECIFICATION: 250Mhz

- Attenuation: 32.8dB
- NEXT: 38.3dB
- PS-NEXT: 36.3dB
- ELFEXT: 19.8dB
- PS-ELFEST: 16.8dB
- Return Loss 17.3dB

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