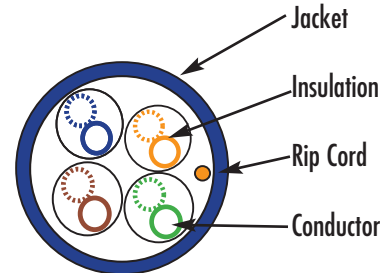


Digital Integration Category 6 Cable Plenum

Rev.1. 10/03

Description:

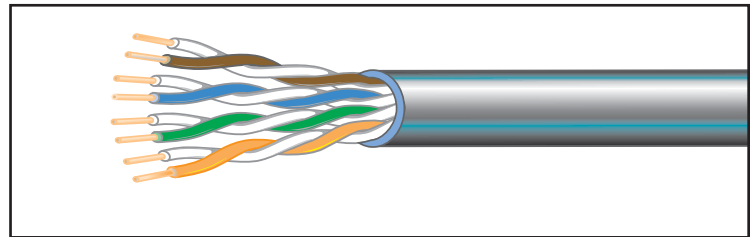
- Multiple pair Category 6 cable
- Enhanced UTP Category Cable
- 4 pair 24AWG unshielded
- FEP- Teflon insulation
- Each pair twisted in varied lays
- Thermoplastic Plenum jacket



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 CMP or MPP as defined in NEC Article 800
- Constructed in accordance with UL Standard 444
- Complies with UL 910 Stiener Tunnel 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:

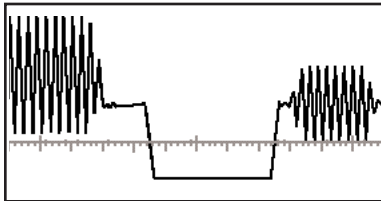
Cable Weight:	29lbs/1000ft (33kg/km)
Bending Radius:	1" (25.4mm)Min (4x Cable O.D.)
Pulling Tension:	25lbf (110N)
Operating Temp:	-34°C to +60°C (-30°F to +140°F)
Storage Temp:	-34°C to +75°C (-30°F to +167°F)
Installation Temp:	-20°C to +60°C (-4°F to +140°F)

Mechanical Characteristics

Number of Pairs	4
Awg. Size	24
Conductor Type	Solid Bare Copper
Insulation	FEP- Teflon
Nom. Jacket Thickness	.020 in (.51mm)
Nom. O.D.	.208 in. (5.28mm)
Jacket Type Color	Gray, Blue

** Teflon is a registered trademark of Dupont

WEST PENN WIRE



254246

**Digital Integration Category 6 Cable
Plenum**

Frequency Mhz	ATTENUATION		NEXT		ACR*	PS-NEXT		PS-ACR	ELFEXT	PS-ELFEXT	RL
	db/100m		db/100m		db/100m	db/100m		db/100m	db/100m	db/100m	(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-ELFEXT: 16.8dB
- Return Loss 17.3dB



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