

## Category 5 FTP Cable Enhanced (Solid)

### Standards:

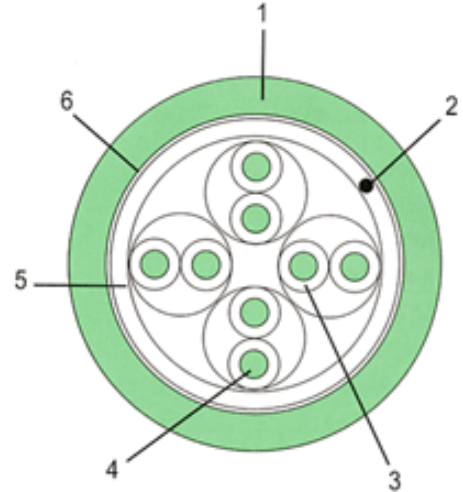
- UL/CSA Lited CM, CMR
- ANSI/TIA/EIA-568-B Category 5
- ISO/IEC-11801
- NEMA WC 63.1

### Application:

- ANSI X3T9.5 TP-PMD (FDDI)
- ATM PMD 155 Mbps
- IEEE 802.3 Fast Ethernet
  - 10 Base-T
  - 100 Base-T4
  - 100 Base-X
- IEEE 802.5
  - 4/16 Mbps Token Ring
- IEEE 802.12
  - 100 Base-VG
- Gigabit Ethernet

### Construction:

1. PVC jacket
2. Drain wire
3. HDPE insu
4. bare cu cond
5. Mylar tape
6. AL/PET tape



### Construction

Type	No.of Pairs	Conductor	Insulation Thickness		Outer Diameter		Jacket	Insulation	
			mm	inch	Mm	inch			
Horizontal Cable	CM	4	24AWG(0.51mm)	0.25	0.0098	6.20	0.244	PVC	HDPE
	CMR	4		0.25	0.0098	6.20	0.244	FRPVC	FRHDPE
	LSZH	4		0.25	0.0098	6.20	0.244	LSZH	HDPE

### Electrical Properties:

ISO/IEC 11801, TIA/EIA 568-B

Impedance	: 100 $\Omega$ $\pm$ 15%
Max. d.c.resistance	: 14.8 $\Omega$ /100m(26AWG)
Max. resistance unbalance	: 3%(5% for TIA/EIA)
Min. Propagation Velocity	: 0.65C
Max. Mutual capacitance	: 5.6nF/100m
Max. capacitance unbalance	: 3400/3300 pF/Km(ISO/IEC, TIA/EIA)
Max.Transfer Impedance	: 50m $\Omega$ /m@10MHz; 100m $\Omega$ /m@10MHz
Max. d.c. resistance	: 9.38 $\Omega$ /100m(24AWG)
Max. d.d.loop resistance	: 19.2 $\Omega$ /100m
Min. d.c.insulation resistance	: 150M $\Omega$ /Km
Max. Propagation delay skew	: 30 ns/100m

Frequency MHz	Attenuation Max.dB/100m	Pr-Pr NEXT Min.dB $\geq$ 100m	Power Sum NEXT Min.dB $\geq$ 100m	ACR Min.dB	Pr-Pr FEXT Min.dB $\geq$ 100m	Power Sum FEEXT Min.dB/100m
0.772	1.8	67.0	64.0	65.2	66.0	63.0
1	2.0	65.3	62.3	63.3	63.8	60.8
4	4.1	56.3	53.3	52.2	51.7	48.7
8	5.8	51.8	48.8	46.0	45.7	42.7
10	6.5	50.3	47.3	43.8	43.8	40.8
16	8.2	47.3	44.3	39.1	39.7	36.7
20	9.3	45.8	42.8	36.5	37.7	34.7
25	10.4	44.3	41.3	33.9	35.8	32.8
31.25	11.7	42.9	39.9	31.2	33.9	30.9
62.5	17.0	38.4	35.4	21.4	27.8	24.8
100	22.0	35.3	32.3	13.3	23.8	20.8