



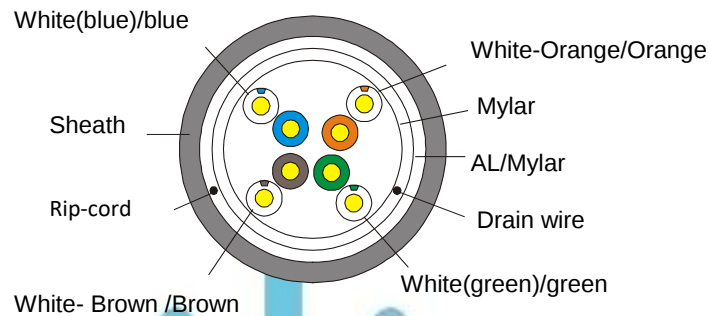
ITEM

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TECHNICAL DATA SHEET – CABLE CONSTRUCTION

SHIELDED CATEGORY 5 ENHANCED U/FTP CABLE (SOLID) 100 MHz



STANDARDS:

- ANSI/TIA/EIA-568-B Category 5 Enhanced
- 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

Type	Pairs	Conductor	Insulation Thickness	Screening Material	External O.D.	Jacket
Horizontal Cable	4	0,51 - 24 AWG Solid bare copper	1.02±0.05 mm HDPE	Mylar+ AL/Mylar	6.3±0.4 mm	HDPE



ITEM s.r.l.

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Electrical Characteristics	
Impedance	100Ω±15%
Max. d.c. resistance	14.8 Ω/100m
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	50 mΩ/m@10MHz; 100mΩ/m@10MHz
Max. d.c. resistance	9.38Ω/100m
Max. d.c. loop resistance	19.2Ω/100m
Min. d.c. insulation resistance	150MΩ/Km
Max. Propagation delay skew	30 ns/100m

Frequency (MHz)	RL ≥ dB	ATT. ≤ dB	Next ≤ dB	PHASE DELAY ≤ dB	PSNEXT ≥ dB	ELFEXT ≥ dB	PSELFEXT ≥ dB
1	20.0	-	65.3	570.00	62.3	63.8	60.8
4	23.0	4.1	56.3	552.00	53.3	51.8	48.8
8	24.5	5.8	51.8	546.73	48.8	45.7	42.7
10	25.0	6.5	50.3	545.38	47.3	43.8	40.8
16	25.0	8.2	47.2	543.00	44.4	39.7	36.7
20	25.0	9.3	45.8	542.05	42.8	37.8	34.8
25	24.3	10.4	44.3	541.20	41.3	35.8	32.8
31.25	23.6	11.7	42.9	540.44	39.9	33.9	30.9
62.5	21.5	17.0	38.5	538.55	35.4	27.9	24.9
100	20.1	22.0	35.3	537.6	32.3	23.8	20.8

Code	Description	Jacket	Packaging
RFE5.0500	Lan Cable U/FTP 4x2xAWG 24/1	HDPE	Drum 500m

