

Four-Pair Cat5e FTP Data Cable 4x2x24#**PVC jacket****PLU030079****GENERAL CONSTRUCTION**

This cable meets Cat5e requirements of both TIA/EIA-568-B.2 and IEC 61156-5. The cable contains 4 twisted pairs, cabled, aluminum foil-tape shielded and jacketed with PVC compound for indoor use, fixed installations.

DETAILED CONSTRUCTION:**1. Basic Wires:**

- 1.1. Conductor : Solid bare-copper, 0.5 mm OD (24 AWG).
- 1.2. Insulation: PO 1.0 mm. nom. OD.
- 1.3. Total number of wires: 8.

2. Pairs Construction:

- 2.1. Total number of pairs: 4
- 2.2. Color code: White/Blue x Blue
White/Orange x Orange
White/Green x Green
White/Brown x Brown

3. Pair arrangement:

The four pairs cabled together.

4. Overall Shield:

Polyester-aluminum tape, providing 100% coverage, laid in close contact with a solid, TC, 24 AWG drain-wire, aluminum face inward.

5. Overall jacket:

- 5.1. Material: FR PVC compound.
- 5.2. Color : Light grey, RAL 7032.
- 5.3. Marking : per request, otherwise TELDOR standard marking.
- 5.4. Overall diameter: 6.1 mm nom.

6. Physical properties:

- 6.1. Total weight: 41 Kg/Km, nom.
- 6.2. Flame test : UL 1581 VW-1 and IEC 60332.1
- 6.3. Temp. Operating range: -5 to +50C during installation.
-20 to +60C during operation.
- 6.4. Min. bending radius : 8 x OD during installation.
4 x OD during operation.
- 6.5. Pulling strength : 92 N max.
- 6.6. Breaking strength : 400 N min.

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**Horizontal BASIC–Solution FTP Cable CATEGORY 5e per TIA/EIA–568–B.2
and per IEC–61156–5**

Freq. MHz	Attenuation Max. dB/100m	PP NEXT Min. dB	PS NEXT Min. dB	PP ACR Min. dB/100m	PS ACR Min. dB/100m	PP ELFEXT Min. dB/100m	PS ELFEXT Min. dB/100m	RL Min. dB
1.0	2.0	65.3	62.3	63.3	60.3	64.8	61.8	20.0
4.0	4.1	56.3	53.3	52.2	49.2	52.7	49.7	23.0
8.0	5.8	51.8	48.8	46.0	43.0	46.7	43.7	24.5
10.0	6.5	50.3	47.3	43.8	40.8	44.8	41.8	25.0
16.0	8.2	47.2	44.3	39.1	36.1	40.7	37.7	25.0
20.0	9.3	45.8	42.8	36.5	33.5	38.7	35.7	25.0
25.0	10.4	44.3	41.3	33.9	30.9	36.8	33.8	24.3
31.25	11.7	42.9	39.9	31.2	28.2	34.9	31.9	23.6
62.5	17.0	38.4	35.4	21.4	18.4	28.8	25.8	21.5
100.0	22.0	35.3	32.3	13.3	10.3	24.8	21.8	20.1

DC Resistance: 94 Ohm/Km max @ 20C

Resistance Unbalance: 2% max.

Characteristic Impedance: 100±5 Ohm @1-100 MHz

Capacitance Unbalance: 1.6 pF/m max. @ 1KHz

LCL: 40-10Log(f) dB min @ 1-100MHz

NVP: 0.68-0.70

Max. Propagation Delay: 5.7 nS/m @ 1MHz, 5.4 nS/m @ 10MHz, 5.3 nS/m @ 100MHz

Propagation Delay Skew: 15 nS/100m max. @1-100 MHz

Insulation Resistance: 5 GOhm.Km min. @ 500Vdc

Dielectric Strength: 100 Vac/1 minute.

Voltage Rating: 220 Vac max.

Transfer Impedance: 12 nom. 50 max. mOhm/m @ 1 MHz

16 nom. 100 max. mOhm/m @ 10 MHz

Coupling Attenuation: 55 dB min. @ 1-100 MHz

Note: For cables containing less than 4 pairs, RL and ELFEXT requirements are informative only.

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