

**Special 4x2x24 AWG FTP CATEGORY 5e  
Outdoor Double Jacket Data Cable  
UL (1581 VW 1) (UL) LISTED E211498**

**PLU030078**

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**GENERAL CONSTRUCTION**

This is custom made cable designed specially for wireless systems and meets the requirements of CATEGORY 5e of ANSI/TIA/EIA-568-B.2 and IEC 61156-5. The cable contains 4 twisted pairs, cabled, foil-tape shielded and jacketed with two special black UV resistant, flame retardant PVC compound. The additional outer black PVC jacket, UV resistant and flame retardant as well as the special shielding arrangement renders the cable suitable for direct outdoor use in harsh electrical environmental. The diameter of the inner core comply with RJ45 connection hardware allowing direct connection to equipment without patch cord. Special precautions are taken to ensure easy removal of the outer jacket.

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

- 1.1. Conductor : Solid bare-copper, 0.51 mm OD (24 AWG).
- 1.2. Insulation: PO, 1.08 mm OD nom.
- 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 and tape wrapped with a PO tape.

**4. Overall Shield:**

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

**5. Inner jacket:**

- 6.1. Material: Special PVC compound, UV resistant and flame retardant.
- 6.2. Color : Black.
- 6.3. Overall diameter: 6.1 mm nom.

**7. Outer jacket:**

- 7.1. Material: Special Heavy-duty PVC compound, UV resistant and flame retardant.
- 7.2. Color : Black, UV resistant.
- 7.3. Marking : Per request otherwise, TELDOR standard marking.
- 7.4. Overall diameter: 7.9 mm nom.

**8. General properties:**

- 8.1. Total weight: 68.0 Kg/Km, nominal.
  - 8.2. Flame test: UL 1581 VW-1
  - 8.3. Temp. operating range: -40 to +70C.
  - 8.4. UV resistance: ASTM G 53 (2016 Hours Exp.)
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Prepared By: Prepared By: Amnon Azoolay    Revised By: Revised By: JACOB BEN-ARY    Revision No: Revision No: 29    Date: Date: 07–November–2005

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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.

Prepared By: Prepared By: Amnon Azoolay

Revised By: Revised By: Eyal Stroumza

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TELDOR Wires and Cables Ltd. EIN-DOR 19335 Israel. Phone: +972-4-6770555 Fax: +972-4-6770650 URL: <http://www.teldor.com>