



Product: [74002E](#)

DataTuff® 5E, 4PR #26 Str BC, PO ins, SF/UTP, PVC jkt, AWM 2464

### Product Description

DataTuff® 5E, 4 Pair AWG 26 Bare Copper - Stranded, PP insulation, SF/UTP - Overall Braid + Foil shielding, PVC jacket , AWM 2464

### Technical Specifications

#### Product Overview

|                        |   |
|------------------------|---|
| Suitable Applications: | Cat5e, harsh environment, IIoT, factory or process automation, video, audio, data communication, etc. |
|------------------------|---|

#### Construction Details

##### Conductor

| Size   | Stranding | Material         | No. of Pairs | No. of Elements |
|--------|-----------|------------------|--------------|-----------------|
| 26 AWG | 7x0.16 mm | BC - Bare Copper | 4            | 8               |

##### Insulation

| Material           | Nom. Insulation Diameter | Color Code   |
|--------------------|--------------------------|--|
| PP - Polypropylene | 0.98 mm (0.039 in)       | White/Blue & Blue, White/Orange & Orange, White/Green & Green, White/Brown & Brown |

##### Cable Core

| Description   |
|---|
| 4 pairs twisted to cable core covered with a polyester foil |

##### Outer Shield

| Shield Type | Material                | Coverage |
|-------------|-------------------------|----------|
| Tape        | Bi-Laminate (Alum+Poly) |          |
| Braid       | Tinned Copper (TC)      | 80%      |

|              |                  |
|--------------|------------------|
| Table Notes: | Aluminum outside |
|--------------|------------------|

##### Outer Jacket

| Material                 | Nom. Diameter    |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 6.5 mm (0.26 in) |

|                                   |                  |
|-----------------------------------|------------------|
| Overall Cable Diameter (Nominal): | 6.5 mm (0.26 in) |
|-----------------------------------|------------------|

#### Electrical Characteristics

##### Electricals

| Max. Conductor DCR | Max. Mutual Capacitance | Max. Capacitance Unbalance | Nom. Characteristic Impedance |
|--------------------|-------------------------|----------------------------|-------------------------------|
| 145 Ohm/km         | 56 pF/m (17 pF/ft)      | 160 pF/100m                | 100 Ohm                       |

##### Delay

| Max. Delay Skew | Nom. Velocity of Prop. |
|-----------------|------------------------|
| 40 ns/100m      | 60%                    |

##### High Frequency

| Frequency [MHz] | Max. Insertion Loss (Attenuation) | Min. NEXT [dB] | Min. PSNEXT [dB] | Min. ACRF (ELFEXT) [dB] | Min. PSACRF (PSELFEXT) [dB] | Min. RL (Return Loss) [dB] |
|-----------------|-----------------------------------|----------------|------------------|-------------------------|-----------------------------|----------------------------|
| 0.772           |                                   | 67             | 64               |                         |                             | 19.4                       |

|       |              |      |      |      |      |      |
|-------|--------------|------|------|------|------|------|
| 1     | 3.2 dB/100m  | 65.3 | 62.3 | 63.8 | 60.8 | 20   |
| 4     | 6 dB/100m    | 56.3 | 53.3 | 51.8 | 48.8 | 23   |
| 10    | 9.5 dB/100m  | 50.3 | 47.3 | 43.8 | 40.8 | 25   |
| 16    | 12.1 dB/100m | 47.2 | 44.2 | 39.7 | 36.7 | 25   |
| 20    | 13.6 dB/100m | 45.8 | 42.8 | 37.8 | 34.8 | 25   |
| 25    | 15.3 dB/100m | 44.3 | 41.3 | 35.8 | 32.8 | 24.3 |
| 31.25 | 17.1 dB/100m | 42.9 | 39.9 | 33.9 | 40.9 | 23.6 |
| 62.5  | 24.8 dB/100m | 38.3 | 35.4 | 27.9 | 24.9 | 21.5 |
| 100   | 32 dB/100m   | 35.3 | 32.3 | 23.8 | 20.8 | 20.1 |

#### Voltage

| Voltage Rating        |
|-----------------------|
| 450 V DC and 300 V AC |

## Mechanical Characteristics

#### Temperature

| Operating      | Installation   | Storage        |
|----------------|----------------|----------------|
| -40°C to +80°C | -15°C To +60°C | -40°C to +80°C |

#### Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 35 mm (1.4 in)  | 70 mm             |

|                    |               |
|--------------------|---------------|
| Max. Pull Tension: | 80 N (18 lbf) |
|--------------------|---------------|

## Standards and Compliance

|                                  |  |
|----------------------------------|--|
| Environmental Suitability:       | Indoor - Euroclass Eca, Indoor, Outdoor - Black only, Sunlight Resistance - Black only, Oil Resistance |
| Flammability / Reaction to Fire: | IEC 60332-1-2  |
| CPR Compliance:                  | CPR Euroclass: Eca; CPR UKCA Class: Eca  |
| AWM Compliance:                  | AWM 2464   |
| Data Category:                   | Category 5e  |
| TIA/EIA Compliance:              | ANSI/TIA 568.2-D   |
| ISO/IEC Compliance:              | ISO/IEC 11801-1  |
| CENELEC Compliance:              | EN 50173-1   |
| European Directive Compliance:   | EU CE Mark   |
| UK Regulation Compliance:        | UKCA Mark  |

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.257 Revision Date: 04-29-2024 |
|----------------------|--|

## Part Numbers

#### Variants

| Item #        | Color | Putup Type | Length | EAN           |
|---------------|-------|------------|--------|---------------|
| 74002E.01B100 | Black | Flat Box   | 100 m  | 8719605171597 |
| 74002E.01305  | Black | Reel       | 305 m  | 8719605013026 |
| 74002E.01500  | Black | Reel       | 500 m  | 8719605013033 |

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