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| REVISION |     |                 |           |            |          |
|----------|-----|-----------------|-----------|------------|----------|
| ZONE     | REV | DESCRIPTION     | DATE      | CHANGED BY | APPROVED |
|          | A   | INITIAL RELEASE | 6/28/2023 | DAVIDG     | DAVIDG   |

**Overview**  
 Bandwidth: 500MHz  
 OD: 6.8mm  
 Conductor: 24AWG  
 Approvals: RoHS  
 Connector: 50U" gold plated RJ45 connector

**Physical Characteristics**

- Cable Type: CAT6A SF/UTP
- Connector Type(s): RJ45
- Wiring Scheme: T568B
- Temperature Rating
  - Installation: 0°C ~ 50°C
  - Operation: -20°C ~ 60°C
- Voltage Rating: 30V

**Conductor (Qty. 4 twisted pair)**

- Conductor Type: 24AWG(1/0.52±0.008mm), Solid Bare Copper.
- Insulation: HDPE
- Diameter: 0.97±0.05mm
- Pair Identification:
  - Pair1 = Orange, Orange-White
  - Pair2 = Blue, Blue-White
  - Pair3 = Green, Green-White
  - Pair4 = Brown, Brown-White

**Connector Type (Qty. 2)**

- Connector Type: 8P8C (RJ45)
- Gender: Plug
- Connector Material: PC-94V-2
- Contact Material: Phosphor Copper, Nickel Plating-100µm Gold Plating-50µm
- Hood Material: Molded PVC

**Overall Cable**

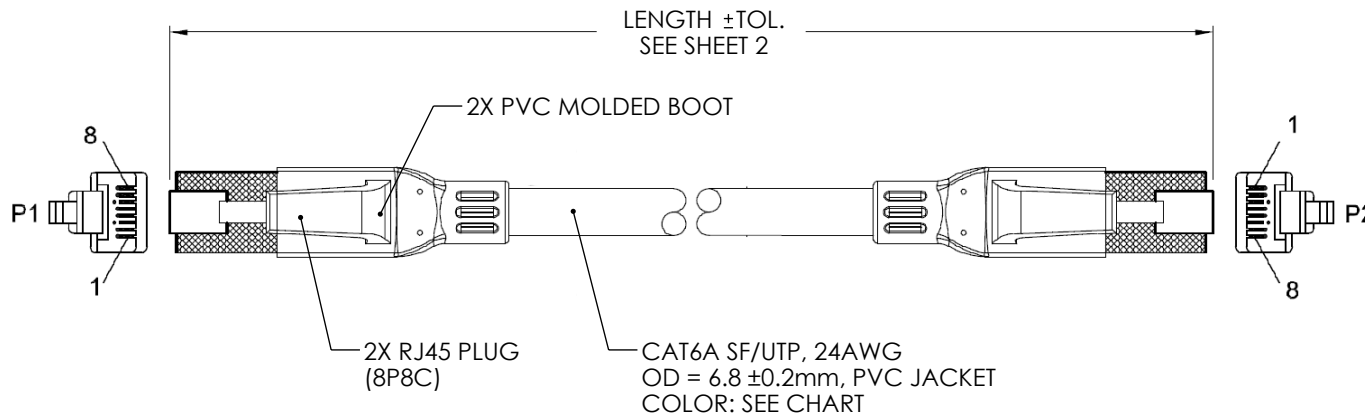
- Jacket: PVC
- Minimum Average Thickness: 0.50mm
- Outer Diameter: 6.8±0.2mm

**Electrical Characteristics**

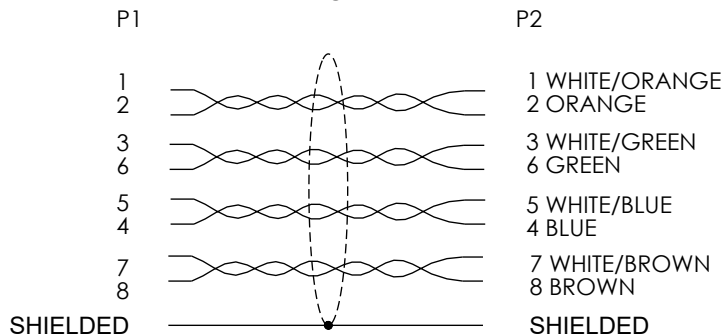
- Conductor DC Resistance: 11.25Ω/100m Max.
- Impedance: 100Ω
- Capacitance: 5600pf/100m
- Propagation Delay: 545ns/100m Max.
- Delay Skew: 45ns/100m Max.
- Fluke DSX 8000 Test


**Miscellaneous**

- Cable Assembly To Be Tested For Continuity
- Cable Assembly To Be Individually Packaged




WIRING MAP



|   |  |                            |   |  |
|---|--|----------------------------|---|--|
| UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES [mm]<br><br>OVERALL CABLE LENGTH TOLERANCE:<br>≤12 [305] = +1 [25] / -0<br>>12 [305] ≤60 [1524] = +2 [51] / -0<br>>60 [1524] ≤120 [3048] = +4 [102] / -0<br>>120 [3048] ≤300 [7620] = +6 [152] / -0<br>>300 [7620] = +5% / -0<br><br>ALL OTHER DIMENSIONAL TOLERANCES:<br>.X = ± .2 [5]   FRACTIONS ± 1/32<br>.XX = ± .02 [5]   ANGLES ± 1°<br>.XXX = ± .005 [1.3] | APPROVALS  | DATE                       |  50 High Street, West Mill,<br>North Andover, MA 01845 USA.<br>Phone: 1.800.341.5266<br>1.978.682.6936 |  |
|   | DRAWN BY<br>KDANG  | 6/1/2023                   |   | CATEGORY<br><b>TELECOM/MODULAR</b><br><br>PRODUCT DESCRIPTION<br><b>Category 6A 10Gig HDBaseT Ethernet AV Cable Assembly</b> |
|   | CHECKED BY<br>DAVIDG                                     | 6/22/2023                  |   |  |
|   | APPROVED BY<br>DAVIDG                                    | 6/22/2023                  |   |  |
| THIRD-ANGLE PROJECTION  | CONFIGURATION DETAILS OF UNDIMENSIONED FEATURES MAY VARY | COLOR VARIATIONS MAY OCCUR | SIZE<br><b>A</b><br>CAGE CODE<br><b>43321</b><br>ITEM NO.<br><b>TRD624HDBT</b>  |  |
| SCALE: NONE   |  | CAD FILE: TRD624HDBT.SLDRW | SHEET 1 OF 2  |  |

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| PART NUMBER        | COLOR | LENGTH FEET [METERS] | TOLERANCE INCH [mm]   |
|--------------------|-------|----------------------|-----------------------|
| TRD624HDBT-BLK-1F  | BLACK | 1.0 [0.30]           | +1.38/-.59 [+35/-15]  |
| TRD624HDBT-BLK-2F  | BLACK | 2.0 [0.60]           | +1.38/-.59 [+35/-15]  |
| TRD624HDBT-BLK-3F  | BLACK | 3.0 [0.91]           | +1.38/-.59 [+35/-15]  |
| TRD624HDBT-BLK-5F  | BLACK | 5.0 [1.52]           | +1.38/-.79 [+35/-20]  |
| TRD624HDBT-BLK-7F  | BLACK | 7.0 [2.13]           | +1.38/-1.18 [+35/-30] |
| TRD624HDBT-BLK-10F | BLACK | 10.0 [3.04]          | +1.38/-1.18 [+35/-30] |
| TRD624HDBT-BLK-15F | BLACK | 15.0 [4.57]          | +1.38/-1.18 [+35/-30] |
| TRD624HDBT-BLK-25F | BLACK | 25.0 [7.62]          | ± 2.36[ 60]           |

|  |                           |   |                  |
|--|---------------------------|---|------------------|
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| CATEGORY<br><p style="text-align: center;">TELECOM/MODULAR</p>   |                           |   |                  |
| PRODUCT DESCRIPTION<br><p style="text-align: center;">Category 6A 10Gig HDBaseT Ethernet AV Cable Assembly</p> |                           |   |                  |
| SIZE<br><b>A</b>   | CAGE CODE<br><b>43321</b> | ITEM NO.<br><b>TRD624HDBT</b>   | REV.<br><b>A</b> |
| SCALE: NONE  |                           | CAD FILE: TRD624HDBT.SLDDRW   |                  |
|  |                           |   | SHEET 2 OF 2     |