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

Overview  
Bandwidth: 500MHz  
OD: 7.6mm  
Conductor: 22AWG  
Approvals: RoHS  
Connector: 50U" gold plated RJ45 connector

#### Physical Characteristics

- Cable Type: CAT6A 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: 22AWG(7/0.254±0.008mm), Stranded Bare Copper.
- Insulation: HDPE
- Diameter: 1.32±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: Black Assemble Boot

#### Overall Cable

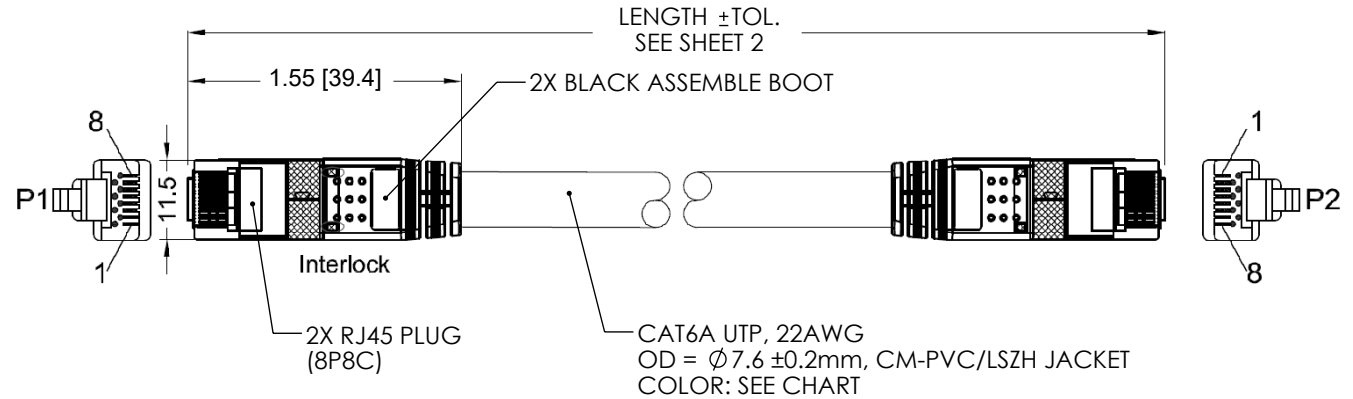
- Jacket: CM-PVC/LSZH
- Minimum Average Thickness: 0.65mm
- Outer Diameter: 7.6±0.20mm

#### Electrical Characteristics

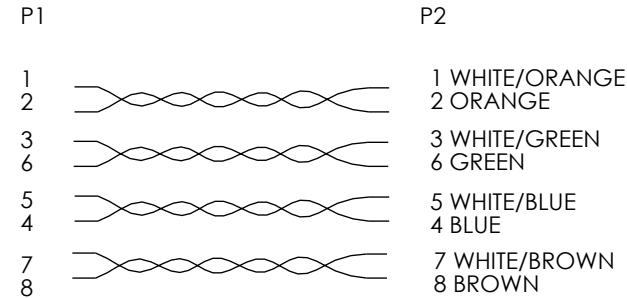
- Conductor DC Resistance: 7.08Ω/100m Max.
- Impedance: 100Ω
- Capacitance: 5600pf/100m
- Propagation Delay: 545ns/100m Max.
- Delay Skew: 45ns/100m Max.
- Pass Fluke DSX 8000 Test
- Support 100W PoE++

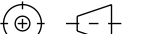
#### Miscellaneous

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



#### WIRING MAP



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                                                                                          |                                                                                                                                                                    |                                        |                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------|
| UNLESS OTHERWISE SPECIFIED,<br>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<br>.XX = ± .02 [.5]      ± 1/32<br>.XXX = ± .005 [.13]      ANGLES ± 1°<br><br>THIRD-ANGLE PROJECTION<br> | APPROVALS             | DATE                                                                                     | <div>L-com™</div> <div>an INFINIT® brand</div> <div>50 High Street, West Mill,<br/>North Andover, MA 01845 USA.<br/>Phone: 1.800.341.5266<br/>1.978.682.6936</div> |                                        |                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DRAWN BY<br>KDANG     | 6/1/2023                                                                                 |                                                                                                                                                                    | CATEGORY<br><div>TELECOM/MODULAR</div> |                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | CHECKED BY<br>DAVIDG  | 6/5/2023                                                                                 |                                                                                                                                                                    |                                        |                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | APPROVED BY<br>DAVIDG | 6/5/2023                                                                                 |                                                                                                                                                                    |                                        |                       |
| CONFIGURATION DETAILS OF<br>UNDIMENSIONED FEATURES<br>MAY VARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | PRODUCT DESCRIPTION<br><div>Category 6A 10Gig 100W PoE Ethernet<br/>Cable Assembly</div> |                                                                                                                                                                    |                                        |                       |
| COLOR VARIATIONS<br>MAY OCCUR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       | SIZE<br>A                                                                                |                                                                                                                                                                    | CAGE CODE<br>43321                     | ITEM NO.<br>TRD622APU |
| SCALE: NONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       | CAD FILE: TRD622APU.SLDDRW                                                               |                                                                                                                                                                    |                                        | SHEET 1 OF 2          |

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| PART NUMBER        | COLOR | LENGTH<br>FEET<br>[METERS] | TOLERANCE<br>INCH [mm] |
|--------------------|-------|----------------------------|------------------------|
| TRD622APU-BLK-1F   | BLACK | 1.0 [0.30]                 | +1.38/-.59 [+35/-15]   |
| TRD622APU-BLK-6F   | BLACK | 2.0 [0.60]                 | +1.38/-.79 [+35/-20]   |
| TRD622APU-BLK-10F  | BLACK | 10.0 [3.04]                | +1.38/-1.18 [+35/-30]  |
| TRD622APU-BLK-15F  | BLACK | 15.0 [4.57]                | +1.38/-1.18 [+35/-30]  |
| TRD622APU-BLK-25F  | BLACK | 25.0 [7.62]                | ± 2.36[ 60]            |
| TRD622APU-BLK-50F  | BLACK | 50 [15.24]                 | ± 2.36[ 60]            |
| TRD622APU-BLK-75F  | BLACK | 75 [22.86]                 | ± 3.15[ 80]            |
| TRD622APU-BLK-100F | BLACK | 100 [30.48]                | ± 3.15[ 80]            |
| TRD622APU-BLK-125F | BLACK | 125 [38.10]                | ± 3.15[ 80]            |
| TRD622APU-BLK-150F | BLACK | 150 [45.72]                | ± 3.15[ 80]            |
| TRD622APU-BLK-200F | BLACK | 200 [60.96]                | ± 3.15[ 80]            |

|                                                                                                             |                    |                                                                                                       |              |
|-------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------|--------------|
| <br>an INFINITI® brand |                    | 50 High Street, West Mill,<br>North Andover, MA 01845 USA.<br>Phone: 1.800.341.5266<br>1.978.682.6936 |              |
| CATEGORY<br>TELECOM/MODULAR                                                                                 |                    |                                                                                                       |              |
| PRODUCT DESCRIPTION<br>Category 6A 10Gig 100W PoE Ethernet<br>Cable Assembly                                |                    |                                                                                                       |              |
| SIZE<br>A                                                                                                   | CAGE CODE<br>43321 | ITEM NO.<br>TRD622APU                                                                                 | REV.<br>A    |
| SCALE: NONE                                                                                                 |                    | CAD FILE: TRD622APU.SLDDRW                                                                            | SHEET 2 OF 2 |