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REVISION				
ZONE	REV	DESCRIPTION	DATE	CHANGED BY
	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

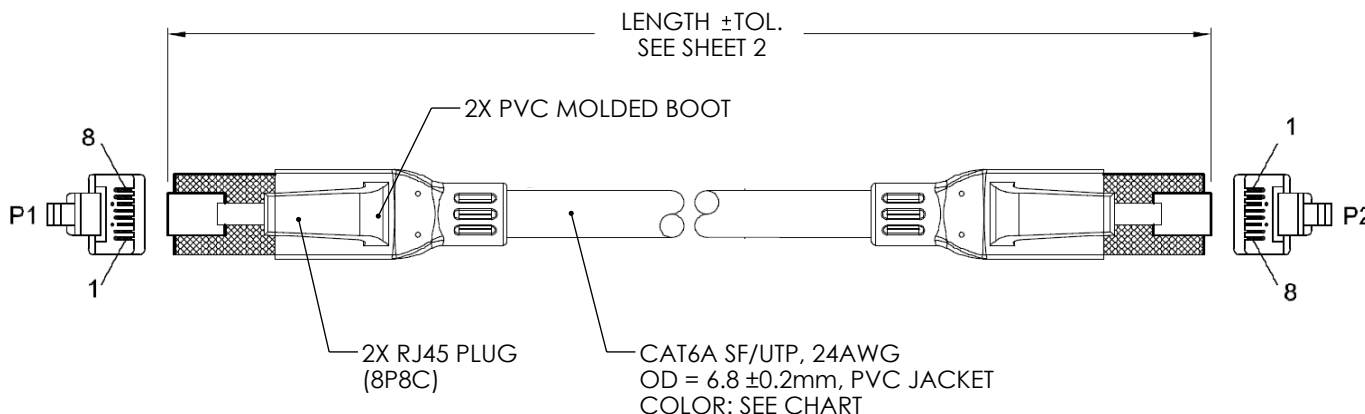
- Jacket: PVC
- Minimum Average Thickness: 0.50mm
- Outer Diameter: 6.8±0.2mm

Electrical Characteristics

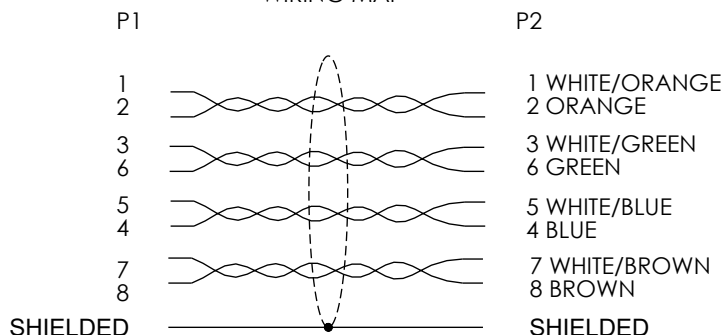
- Conductor DC Resistance: 11.25Ω/100m Max.
- Impedance: 100Ω
- Capacitance: 5600pf/100m
- Propagation Delay: 545ns/100m Max.
- Delay Skew: 45ns/100m Max.
- Fluke DSX 8000 Test

Miscellaneous

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



WIRING MAP

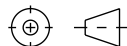


UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES [mm]

OVERALL CABLE LENGTH TOLERANCE:
≤12 [305] = +1 [25] / -0
>12 [305] ≤60 [1524] = +2 [51] / -0
>60 [1524] ≤120 [3048] = +4 [102] / -0
>120 [3048] ≤300 [7620] = +6 [152] / -0
>300 [7620] = +5% / -0

ALL OTHER DIMENSIONAL TOLERANCES:
.X = ±.2 [5] | FRACTIONS
.XX = ±.02 [.5] | ± 1/32
.XXX = ±.005 [.13] | ANGLES ± 1°

THIRD-ANGLE PROJECTION



APPROVALS

DRAWN BY

KDANG

CHECKED BY

DAVIDG

APPROVED BY

DAVIDG

DATE

6/1/2023

6/22/2023

6/22/2023

CONFIGURATION DETAILS OF
UNDIMENSIONED FEATURES
MAY VARY

COLOR VARIATIONS
MAY OCCUR

L-com
an INFINITI® brand

50 High Street, West Mill,
North Andover, MA 01845 USA.
Phone: 1.800.341.5266
1.978.682.6936

CATEGORY

TELECOM/MODULAR

PRODUCT DESCRIPTION

Category 6A 10Gig HDBaseT Ethernet AV Cable
Assembly

SIZE

A

CAGE CODE

43321

ITEM NO.

TRD624HDBT

REV.

A

SCALE: NONE

CAD FILE: TRD624HDBT.SLDDRW

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]

 an INFINITI® brand		50 High Street, West Mill, North Andover, MA 01845 USA. Phone: 1.800.341.5266 1.978.682.6936	
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SIZE A	CAGE CODE 43321	ITEM NO. TRD624HDBT	REV. A
SCALE: NONE		CAD FILE: TRD624HDBT.SLDDRW	SHEET 2 OF 2