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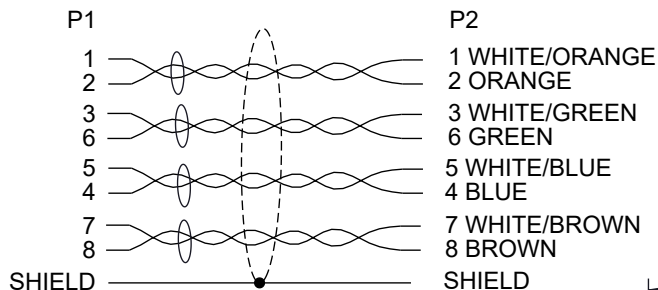
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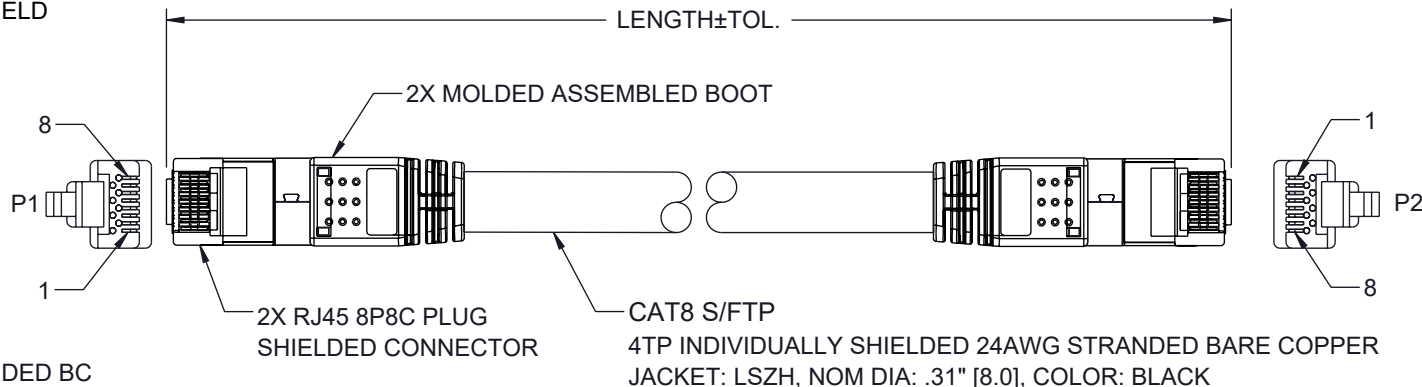
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## WIRING MAP



| REVISION |     |                 |            |            |            |
|----------|-----|-----------------|------------|------------|------------|
| ZONE     | REV | DESCRIPTION     | DATE       | CHANGED BY | APPROVED   |
|          | A   | INITIAL RELEASE | 01/15/2024 | HBAKKE     | GUTTADAURO |



## NOTES:

## PHYSICAL:

- CONDUCTOR TYPE: 24AWG, STRANDED BC
- INSULATION: FMPE
- CONDUCTOR DIA:  $1.4 \pm 0.05\text{mm}$
- CONNECTOR CONTACT MATERIAL: COPPER ALLOY,  $50\mu\text{m}$  GOLD PLATED
- MINIMUM AVERAGE CABLE THICKNESS: .024 [0.60].

## ELECTRICAL:

- BANDWIDTH: 2000 MHz
- VOLTAGE RATING: 30 V
- CONDUCTOR DC RESISTANCE:  $11.25\Omega/100\text{m}$  (MAXIMUM)
- IMPEDANCE:  $100\Omega$
- CAPACITANCE:  $5600\text{pf}/100\text{m}$
- PROPAGATION DELAY:  $545\text{ns}/100\text{m}$  (MAXIMUM)
- DELAY SKEW:  $45\text{ns}/100\text{m}$  (MAXIMUM)
- PASS FLUKE DSX 8000 CHANNEL TEST

## ENVIRONMENTAL:

- INSTALLATION TEMPERATURE RATING:  $0^{\circ}\text{C}$  TO  $+50^{\circ}\text{C}$
- OPERATING TEMPERATURE RATING:  $-20^{\circ}\text{C}$  TO  $+60^{\circ}\text{C}$

## MISCELLANEOUS:

- CABLE ASSEMBLY TO BE TESTED FOR CONTINUITY.
- CABLE ASSEMBLY SHALL BE INDIVIDUALLY PACKAGED.

## REGULATORY COMPLIANCE:

EU RoHS DIRECTIVE (MOST RECENTLY RELEASED VERSION).

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| ITEM NUMBER       | LENGTH [TOL.]        |                   |
|-------------------|----------------------|-------------------|
|                   | FEET [IN]            | METERS [mm]       |
| TRD824ZTR-BLK-1F  | 1.00 [+1.38/- .59]   | 0.30 [+35/-15]    |
| TRD824ZTR-BLK-2F  | 2.00 [+1.38/- .59]   | 0.61 [+35/-15]    |
| TRD824ZTR-BLK-3F  | 3.00 [+1.38/- .59]   | 0.91 [+35/-15]    |
| TRD824ZTR-BLK-5F  | 5.00 [+1.38/- .79]   | 1.52 [+35/-20]    |
| TRD824ZTR-BLK-7F  | 7.00 [+1.38/-1.18]   | 2.13 [+35/-30]    |
| TRD824ZTR-BLK-10F | 10.00 [+1.38/-1.18]  | 3.05 [+35/-30]    |
| TRD824ZTR-BLK-15F | 15.00 [+1.38/-1.18]  | 4.57 [+35/-30]    |
| TRD824ZTR-BLK-25F | 25.00 [ $\pm 2.36$ ] | 7.62 [ $\pm 60$ ] |

UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

## TOLERANCES:

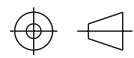
|                           |                        |
|---------------------------|------------------------|
| X = $\pm 2$ [5]           | FRACTIONS              |
| .XX = $\pm 0.02$ [0.5]    | $\pm 1/32$             |
| .XXX = $\pm 0.005$ [0.13] | ANGLES $\pm 1^{\circ}$ |

CABLE LENGTH TOLERANCES:  
 $\leq 12$  [305] =  $\pm 1$  [25] / -0  
 $>12$  [305]  $\leq 60$  [1524] =  $\pm 2$  [51] / -0  
 $>60$  [1524]  $\leq 120$  [3048] =  $\pm 4$  [102] / -0  
 $>120$  [3048]  $\leq 300$  [7620] =  $\pm 6$  [152] / -0  
 $>300$  [7620] =  $\pm 5\%$  / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY  
AND SUBJECT TO CHANGE WITHOUT NOTICE.  
UN-DIMENSIONED/NON-CRITICAL FEATURES  
MAY VARY IN SIZE AND LOCATION  
COLORS MAY VARY

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INTERPRET ALL DIMENSIONS AND  
TOLERANCES PER ASME Y14.5

SCALE SHEET  
NONE 1 OF 1

## DESCRIPTION

CAT 8 40GIG ETHERNET CABLE, S/FTP 24AWG, TENSILE  
RESISTANT, LSZH JACKET, BLACK

| SIZE | CAGE CODE | DRAWN BY | ITEM NO.      | REV |
|------|-----------|----------|---------------|-----|
| A    | 43321     | HBAKKE   | TRD824ZTR-BLK | A   |

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