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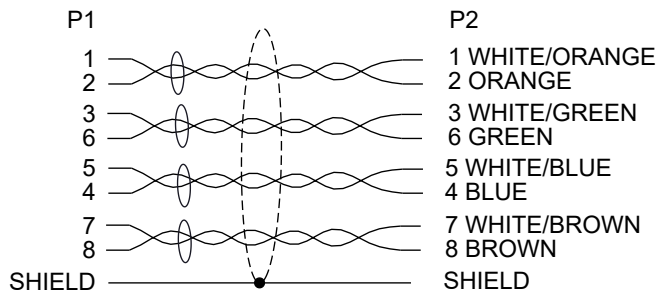
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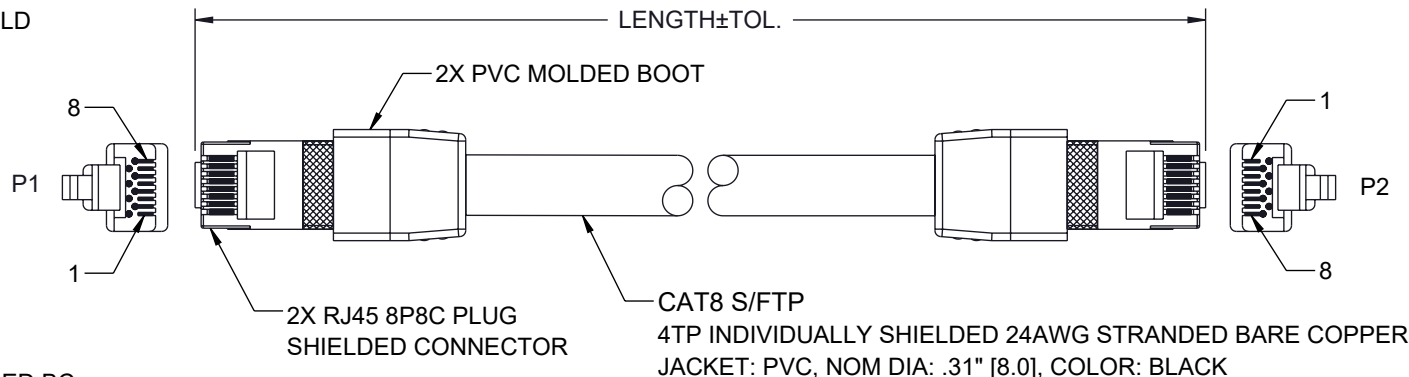
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## WIRING MAP



REVISION					
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	06/03/2024	DZINN	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]
TRD824DC-BLK-1F	1.00 [+1.38/- .59]	0.30 [+35/-15]
TRD824DC-BLK-2F	2.00 [+1.38/- .59]	0.61 [+35/-15]
TRD824DC-BLK-3F	3.00 [+1.38/- .59]	0.91 [+35/-15]
TRD824DC-BLK-5F	5.00 [+1.38/- .79]	1.52 [+35/-20]
TRD824DC-BLK-7F	7.00 [+1.38/-1.18]	2.13 [+35/-30]
TRD824DC-BLK-10F	10.00 [+1.38/-1.18]	3.05 [+35/-30]
TRD824DC-BLK-15F	15.00 [+1.38/-1.18]	4.57 [+35/-30]
TRD824DC-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]  
.XX =  $\pm 0.02$  [0.5]  
.XXX =  $\pm 0.005$  [0.13]  
FRACTIONS  
 $\pm 1/32$   
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  
NONE

SHEET  
1 OF 1

## DESCRIPTION

CAT 8 40GIG ETHERNET CABLE, S/FTP 24AWG, DUAL COLOR  
MOLDED, PVC JACKET, BLACK

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	43321	DZINN	TRD824DC-BLK	A

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