

6

5

4

3

2

1

NOTES:

1. CONSTRUCTION:

CONDUCTOR: 24 AWG 7/32 STRANDED TINNED COPPER. NOM DIA .0236 [0.60]
INSULATION: HIGH DENSITY POLYETHYLENE, .011 [0.28] NOM WALL THICKNESS. NOM DIA .046 [1.17]
PAIRS: COLOR CODED SINGLES TWISTED INTO PAIRS. NOM DIA .092 [2.34]
CABLE: (4) TWISTED PAIRS TWISTED TOGETHER WITH A CENTRAL SPLINE AND WRAPPED WITH A
FOAM POLYPROPYLENE TAPE TO FORM A CABLE CORE. NOM DIA .228 [5.79]
SHIELDS: AN OVERALL SHIELD OF 38 AWG TINNED COPPER BRAID (75% MINIMUM COVERAGE)
SHALL BE APPLIED OVER THE CABLE CORE. A SECOND SHIELD OF ALUMINIZED POLYESTER FOIL
(FOIL IN, 100% COVERAGE) SHALL BE APPLIED OVER THE BRAID. NOM DIA .247 [6.27]
JACKET: THERMOPLASTIC ELASTOMER, BLACK, .039 [0.99] NOM WALL THICKNESS (PRESSURE).
OVERALL CABLE DIAMETER: .325 ± .010 [8.26 ± 0.25] (BY PI TAPE)

2. PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX 75°C & 80°C
TEMPERATURE RATING, MIN -20°C (PER UL 444 COLD BEND)
TEMPERATURE RATING, MIN -40°C (MANUFACTURER'S RECOMMENDED)
WEIGHT/METER, NOM, NET: 51.2 LBS
JACKET IS WELD SPATTER RESISTANT, CUTTING/MACHINING OIL RESISTANT, AND
SUNLIGHT RESISTANT.

FLEX LIFE: (PENDING)

(126 CYCLES/MIN @ 20°C) 1 MILLION CYCLE TEST (10X CABLE OD, MINIMUM RADIUS)

10 MILLION CYCLE TEST (20X CABLE OD, MINIMUM RADIUS)

3. AGENCY APPROVALS:

NEC (UL) TYPE CMX OUTDOOR - CM, CEC C(UL) TYPE CMX OUTDOOR - CM, UL AWM STYLE 2463

4. APPLICATION:

SHIELDED FLEXIBLE PATCH/JUMPER CABLE TO SUPPORT SCREENED INDUSTRIAL ETHERNET/IP,
TIA-568.2-D CATEGORY 6 AND 6a
APPLICATIONS. RoHS COMPLIANT MATERIALS. U.S. PATENT NO. 8,487,184 B2.

5. PRINT: (WHITE INK ON BLACK JACKET)

QUABBIN DATAMAX EXTREME HI-FLEX INDUSTRIAL ETHERNET/IP CAT 6/6a SF/UTP PATCH CORD
P/N 5925 - U.S. PATENT NO.
US 8,487,184 B2 --C(UL)US TYPE CMX OUTDOOR - CM 24AWG 75C SUN RES OR AWM 2463 80V 600V -
- CAT 6a TIA-568.2-D
-- RoHS -- (LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)

6. ELECTRICAL CHARACTERISTICS: (FOR 100m OF CABLE)

POE COMPLIANT TO 88 METERS WHEN INSTALLED PER RECOMMENDATIONS IN TSB-184. CABLE
WILL MEET CAT 6a CHANNEL REQUIREMENTS TO 88 METER LENGTH.

7. CAPACITANCE, MUTUAL, MAX:13.5 PF/FT @ 1 MHz

DIELECTRIC WITHSTANDING, MIN: 2000V RMS
VOLTAGE RATING, MAX:600V

D.C. RESISTANCE, MAX: 26.2Ω/1000FT

IMPEDANCE:100 +/- 15Ω 1 - 100MHz, 100 +/- 20Ω 100 TO 500MHz

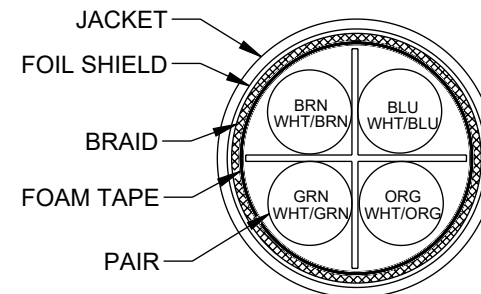
RETURN LOSS:

 $1 \leq f < 10 \text{ MHz: } 20 + 6 \text{ LOG}(f) \text{ dB MIN}$ $10 \leq f < 20 \text{ MHz: } 26\text{dB MIN}$ $100 \leq f < 500 \text{ MHz: } 25- 8.6 \text{ LOG}(f/20) \text{ dB MIN}$

8. PACKAGING: SEE TABLE

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE
WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE
EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW
PROHIBITED.

REVISION					
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	B	ECO-14815	08/04/2025	AKRESOWSKI	GUTTADAURO



CROSS-SECTIONAL VIEW

COLOR CODE:

- 1) BLUE x WHITE/BLUE
- 2) ORANGE x WHITE/ORANGE
- 3) GREEN x WHITE/GREEN
- 4) BROWN x WHITE/BROWN

PART NUMBER	PACKAGING
TFDLC6A-BLK-100F	COIL
TFDLC6A-BLK-500F	SPOOL
TFDLC6A-BLK-1000F	SPOOL

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

TOLERANCES:
X = ±.2 [5] FRACTIONS
XX = ±.02 [0.5] ± 1/32
XXX = ±.005 [0.13] ANGLES ± 1°

CABLE LENGTH TOLERANCES:
≤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 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

L-com
an INFINIT® brand

Website: www.L-com.com
Phone: 1.800.341.5266 | 1.978.682.6936



INTERPRET ALL DIMENSIONS AND
TOLERANCES PER ASME Y14.5

SCALE NONE SHEET 1 OF 1

DESCRIPTION
BULK C6a 4P SF/UTP POE 24STR CMX-CM TPE BLK

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	43321	DFRISIELLO	TFDLC6A-BLK	B

6

5

4

3

2

1