

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:

$1 \leq f < 10$ MHz: 20 + 6 LOG (f) dB MIN

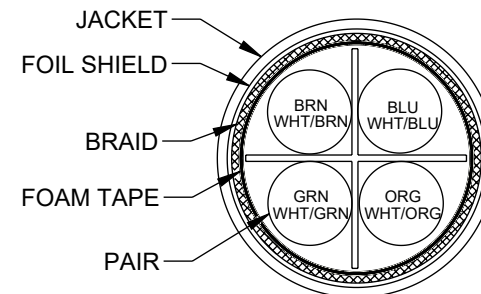
$10 \leq f < 20$ MHz: 26dB MIN

$100 \leq f < 500$ MHz: 25- 8.6 LOG(f/20) dB MIN

8. PACKAGING: SEE TABLE

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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

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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