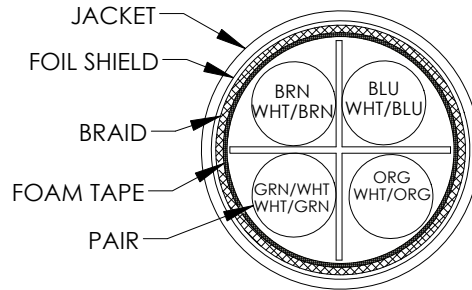


THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF L-COM, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF L-COM, INC. IS PROHIBITED.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
A	INITIAL RELEASE	04/26/2021	GUTTADAURO

**CROSS-SECTIONAL VIEW**



**COLOR CODE:**

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

**NOTES:**

**1.CONSTRUCTION:**

CONDUCTOR: 24 AWG 7/32 STRANDED TINNED COPPER  
 INSULATION: HIGH DENSITY POLYETHYLENE, .011" NOM. WALL THICKNESS  
 PAIRS: COLOR CODED SINGLES TWISTED INTO PAIRS  
 CABLE: (4) TWISTED PAIRS TWISTED TOGETHER AND WRAPPED WITH A CENTRAL SPLINE AND WRAPPED WITH A FOAM POLYPROPYLENE TAPE TO FORM A CABLE CORE  
 SHIELDS: AN OVERALL SHIELD OF 38AWG 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  
 JACKET: THERMOPLASTIC ELASTOMER, BLACK .039" NOM. WALL THICKNESS (PRESSURE)  
 OVERALL CABLE DIAMETER

NOM. DIA.  
 .0236"  
 .046"  
 .092"  
 .228"  
 .247"  
 .325" +/- .010"  
 (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)  
 WT./M', NOM., NET. 48.5 LBS.  
 JACKET IS WELD SPATTER RESISTANT, JACKET IS CUTTING/MACHINING OIL RESISTANT, JACKET IS SUNLIGHT RESISTANT

**FLEX LIFE: (PENDING)**

(126 CYCLES/MIN. @20°C) 1 MILLION CYCLE TEST (10X CABLE O.D., MINIMUM RADIUS)  
 10 MILLION CYCLE TEST (20X CABLE O.D., 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 (802.3) TO 83 METERS WHEN INSTALLED PER RECOMMENDATIONS IN TSB-184. CABLE WILL MEET CAT 6a CHANNEL REQUIREMENTS TO 183 METER LENGTH.

CAPACITANCE, MUTUAL, MAX. 13.5 PF/FT. AT 1 MHZ  
 DIELECTRIC WITHSTANDING, MIN. 2000V RMS  
 VOLTAGE RATING, MAX. 600V  
 D.C. RESISTANCE, MAX. 14.0 Ω  
 IMPEDANCE 100 +/- 15 Ω 1 - 100 MHZ, 100 +/- 20 Ω 100 TO 500 MHZ

**RETURN LOSS:**

1 ≤ f < 10 MHz 20 + 6 LOG (f) dB MIN  
 10 ≤ f < 20 MHz 26dB MIN  
 100 ≤ f < 500 MHz 25- 8.6 LOG(f/20) dB MIN

**7.PACKAGING:**

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

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 [5.08] .XX = .02 [51] .XXX = .005 [13]	APPROVALS	DATE	50 HIGH STREET NORTH ANDOVER, MA 01845	
	DRAWN BY DFRISIELLO	04/26/2021		
	APPROVED BY DGUTTADAURO	04/26/2021	CATEGORY	TELECOM/MODULAR
	CONFIGURATION DETAILS OF UNDIMENSIONED FEATURES MAY VARY		PRODUCT DESCRIPTION	Bulk C6a 4P SF/UTP POE 24STR CMX-CM TPE BLK
PROJECTION	COLOR VARIATIONS MAY OCCUR	SIZE <b>A</b>	FSCM NO. <b>43321</b>	DWG. NO. TFDLC6A-BLK
		SCALE: N/A	CAD FILE: TFDLC6A-BLK.SLDRW	SHEET 1 OF 1