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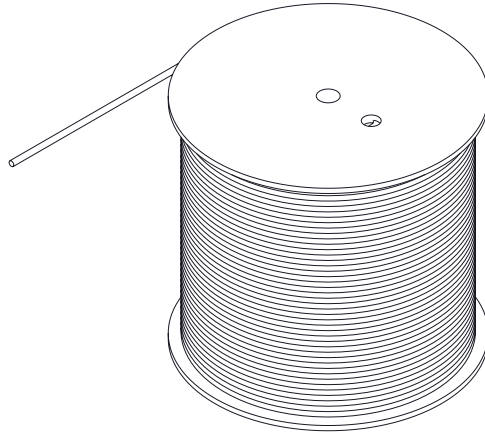
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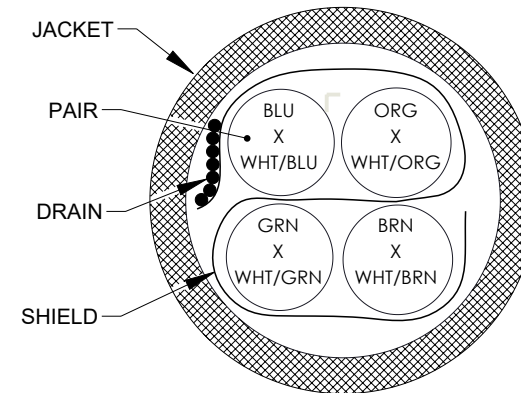
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1

TFCLRC6A CONSISTS OF 1000 FEET OF CONTINUOUS LENGTH OF BULK CABLE



CROSS-SECTIONAL VIEW



**COLOR CODE**  
 BLUE x WHITE/BLUE  
 ORANGE x WHITE/ORANGE  
 GREEN x WHITE/GREEN  
 BROWN x WHITE/BROWN

NOTES:

1. CONSTRUCTION:

CONDUCTOR: 26 AWG 7/34 STRANDED TINNED COPPER  
 INSULATION: HIGH DENSITY POLYETHYLENE, .011" NOM. WALL THICKNESS  
 PAIRS: COLOR CODED SINGLES TWISTED INTO PAIRS  
 CABLE: (4) TWISTED PAIRS TWISTED TOGETHER  
 SHIELD: AN ALUMINIZED POLYESTER FOIL SHIELD (100% COVERAGE) WITH  
 7 ENDS OF 34AWG TINNED COPPER DRAIN WIRE IN CONTACT WITH  
 METALIZED SURFACE SHALL BE APPLIED OVER THE CABLE CORE  
 JACKET: LOW SMOKE ZERO HALOGEN, COLOR: SEE CHART 1, .023" NOM. WALL  
 THICKNESS

NOM. DIA.

.019"  
 .0405" ± .001"  
 .081"  
 .177"  
 .180"  
 .235" NOM.  
 .240" MAX.  
 (BY PI TAPE)

2. PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX: +75 °C  
 TEMPERATURE RATING, MIN: -20 °C  
 WT./M', NOM.,NET.: 23.4 LBS.

3. ELECTRICAL CHARACTERISTICS: SEE SHEET 2

4. AGENCY APPROVALS:

NEC (UL) TYPE CM-ST1  
 CEC C(UL) TYPE CM

5. APPLICATION:

SHIELDED FLEXIBLE PATCH/JUMPER CABLE TO SUPPORT SCREENED 568.2-D CATEGORY 6a APPLICATIONS.  
 RoHS COMPLIANT MATERIALS

6. JACKET PRINT(WHITE INK ON BLACK JACKET, ALL OTHERS BLACK INK):

QUABBIN DATAMAX LSZH 6a F/UTP PATCH CORD P/N (QWC P/N PER CHART 1)-- PATENT NO. US 9,355,759 B2 --  
 CM C (UL)US CM-ST1 26 AWG 75C -- RoHS -- (LOT DESIGNATOR)(SEQUENTIAL FOOTAGE)

7. PACKAGING:

CABLE SHIPPED ON A REEL

CHART 1

PART NUMBER	JACKET COLOR
TFCLRC6A-BLK-1000F	BLACK
TFCLRC6A-BLU-1000F	BLUE
TFCLRC6A-GRY-1000F	GRAY
TFCLRC6A-RED-1000F	RED

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

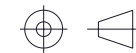
TOLERANCES:  
 .X = ±.2 [5]      FRACTIONS  
 .XX = ±.02 [0.5]      ± 1/32  
 .XXX = ±.005 [0.13]      ANGLES ± 1°

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 2

DESCRIPTION

C6a F/UTP LSZH CM 26AWG 1KFT

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	43321	DFRISIELLO	TFCLRC6A	A

6

5

4

3

2

1

F

F

3. ELECTRICAL CHARACTERISTICS:

CAPACITANCE, MUTUAL, NOM.	13.5PF/FT AT 1MHz
DIELECTRIC WITHSTANDING, MIN.	1500V RMS
VOLTAGE RATING, MAX.	300V
D.C. RESISTANCE, MAX.	14 OHM/100m(42.6 OHM/1000 FT)

NOTE: TESTING FOR THE FOLLOWING IS CONDUCTED OFF THE REEL (FOR 100m CABLE)

E

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IMPEDANCE, NOM.	100 ± 15 OHM 1-100 MHz
	100 ± 20 OHM 100-500 MHz

RETURN LOSS	1 ≤ f < 10 MHz	20 + 5 LOG(f) dB MIN
	10 ≤ f < 20 MHz	25 dB MIN
	20 ≤ f ≤ 500 MHz	25 - 8.6 LOG(f/20) dB MIN

PS NEXT	1 ≤ f ≤ 500 MHz	42.3- 15 LOG(f/100) dB MIN
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NEXT	1 ≤ f ≤ 500 MHz	44.3 - 15 LOG(f/100) dB MIN
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PS ACRF	1 ≤ f ≤ 500 MHz	24.8 - 20 LOG(f/100) dB MIN
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ACRF	1 ≤ f ≤ 500 MHz	27.8 - 20 LOG(f/100) dB MIN
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INSERTION LOSS	1 ≤ f ≤ 500 MHz	1.5[1.82SqRt(f) + 0.0091(f) + 0.25/SqRt(f)] dB MAX
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DELAY	1 ≤ f ≤ 500 MHz	534 + 36/SqRt(f) ns MAX
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C

C

DELAY SKEW	1 ≤ f ≤ 500 MHz	< 45 ns
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PS ANEXT LOSS (6 AROUND 1)	1 ≤ f ≤ 500 MHz	62.5 - 15 LOG(f/100) dB	50-500MHz
		67 dB	1-50MHz

PS AFEXT (6 AROUND 1)	1 ≤ f ≤ 500 MHz	38.2 - 20 LOG(f/100) dB, 67 dB MIN
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TCL	1 ≤ f ≤ 500 MHz	30 - 10 LOG(f/100) dB MIN, 40 dB MIN
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B

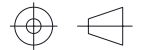
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ELTCTL	1 ≤ f ≤ 30 MHz	35 - 20 LOG(f) dB MIN
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VELOCITY OF PROPAGATION	68%
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A

A

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		SCALE NONE	SHEET 2 OF 2
DESCRIPTION C6a F/UTP LSZH CM 26AWG 1KFT			
SIZE A	CAGE CODE 43321	DRAWN BY DFRISIELLO	ITEM NO. TFCLRC6A
			REV A

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