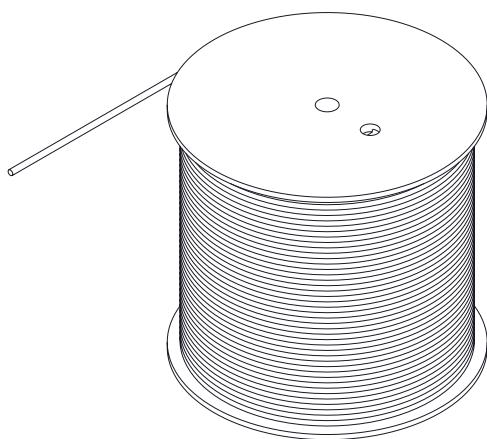


TFCRC6A CONSISTS OF 1000 FEET OF CONTINUOUS LENGTH OF BULK CABLE



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: POLYVINYLCHLORIDE, COLOR: SEE CHART 1, .024" NOM. WALL THICKNESS
 OVERALL CABLE DIAMETER

2. PHYSICAL PROPERTIES:
 TEMPERATURE RATING, MAX: +75 °C
 TEMPERATURE RATING, MIN: -20 °C
 WT./M', NOM.,NET.: 23.6 LBS.

3. ELECTRICAL CHARACTERISTICS: SEE SHEET 2

4. AGENCY APPROVALS:
 NEC (UL) TYPE CMR/CMG
 CEC C(UL) TYPE CMR/CMG
 EU CE MARK: MEETS EU DIRECTIVE 2011/65/EU (RoHS II)

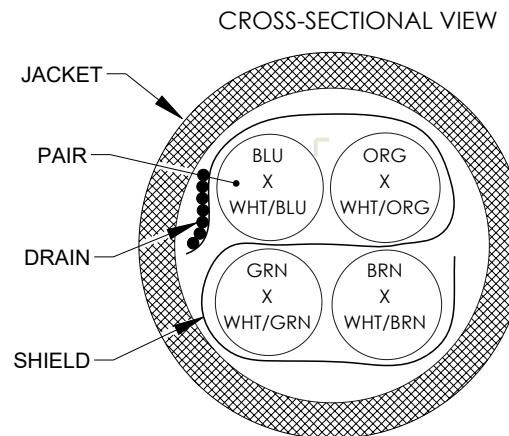
5. APPLICATION:
 SHIELDED FLEXIBLE PATCH/JUMPER CABLE TO SUPPORT SCREENED 568.2-D CATEGORY 6a APPLICATIONS.

6. PRINT: (WHITE INK ON BLACK JACKET, ALL OTHERS BLACK INK) QUABBIN DATAMAX 6a F/UTP 100 OHM PATCH CORD P/N (QWC P/N PER CHART 1) -- TYPE CMR C(UL)US CMG 4 PR 26 AWG SHIELDED 75C --FT4/IEEE 1202 -- CAT 6a TIA-568.2-D -- CE RoHS -- (LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)

7. PACKAGING:
 CABLE SHIPPED ON A REEL

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	UPDATED PER ECO-14084	12/19/2024	HBAKKE	GUTTADAURO



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

NOM. DIA.
 019"
 .0405"
 .081"
 .177"
 .185"
 .233" NOM.
 (BY PI TAPE)

CHART 1	
PART NUMBER	JACKET COLOR
TFCRC6A-BLK-1000F	BLACK
TFCRC6A-BLU-1000F	BLUE
TFCRC6A-GRY-1000F	GRAY
TFCRC6A-VLT-1000F	VIOLET
TFCRC6A-WHT-1000F	WHITE
TFCRC6A-YLW-1000F	YELLOW
TFCRC6A-RED-1000F	RED

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

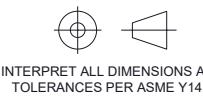
TOLERANCES:
 X = ±.2 [5]
 XX = ±.02 [0.5]
 XXX = ±.005 [0.13]
 FRACTIONS
 ± 1/32
 ANGLES ± 1°

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 INFINITE® brand

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



SCALE
 SHEET
 NONE
 1 OF 2

DESCRIPTION
 C6a F/UTP CMR CMG 26AWG 1KFT

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	43321	DFRISIELLO	TFCRC6A	B

3. ELECTRICAL CHARACTERISTICS:

CAPACITANCE, MUTUAL, NOM.	13.5PF/FT AT 1MHz
DIELECTRIC WITHSTANDING, MIN.	1500V RMS
VOLTAGE RATING, MAX.	300V
D.C. RESISTANCE, MAX.	42.6 OHM/1,000 FT(14.0 OHM/100m)

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

IMPEDANCE, NOM.

100 \pm 15 OHM 1-100 MHz
100 \pm 20 OHM 100-500 MHz

RETURN LOSS

1 \leq f $<$ 10 MHz 20 + 5 LOG(f) dB MIN
10 \leq f $<$ 20 MHz 25 dB MIN
20 \leq f \leq 500 MHz 25 - 8.6 LOG(f/20) dB MIN

PS NEXT

1 \leq f \leq 500 MHz 42.3 - 15 LOG(f/100) dB MIN

NEXT

1 \leq f \leq 500 MHz 44.3 - 15 LOG(f/100) dB MIN

PS ACRF

1 \leq f \leq 500 MHz 24.8 - 20 LOG(f/100) dB MIN

ACRF

1 \leq f \leq 500 MHz 27.8 - 20 LOG(f/100) dB MIN

INSERTION LOSS

1 \leq f \leq 500 MHz 1.5[1.82SqRt(f) + 0.0091(f) + 0.25/SqRt(f)] dB MAX

DELAY

1 \leq f \leq 500 MHz 534 + 36/SqRt(f) ns MAX

DELAY SKEW

1 \leq f \leq 500 MHz < 45 ns

PS ANEXT LOSS (6 AROUND 1)

1 \leq f \leq 500 MHz 62.5 - 15 LOG(f/100) dB 50-500 MHz
67 dB 1-50 MHz

PS AFEXT (6 AROUND 1)

1 \leq f \leq 500 MHz 38.2 - 20 LOG(f/100) dB, 67 dB MIN

TCL

1 \leq f \leq 500 MHz 30 - 10 LOG(f/100) dB MIN, 40 dB MIN

ELTCTL

1 \leq f \leq 30 MHz 35 - 20 LOG(f) dB MIN

VELOCITY OF PROPAGATION

68%

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.

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 INFINITE® 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	SHEET NONE 2 OF 2
DESCRIPTION C6a F/UTP CMR CMG 26AWG 1KFT			
SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	43321	DFRISIELLO	TFCRC6A
REV			B