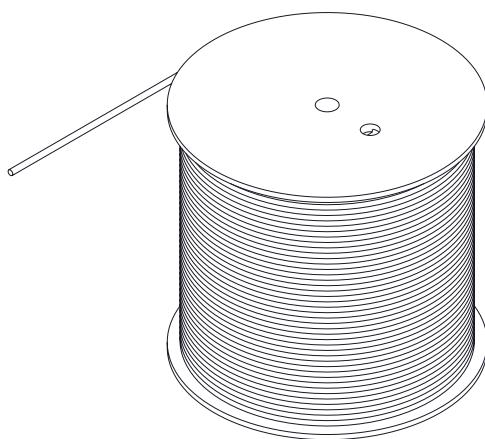


TFCRC6A CONSISTS OF 1000 FEET OF CONTINUOUS LENGTH OF BULK CABLE



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

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

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)

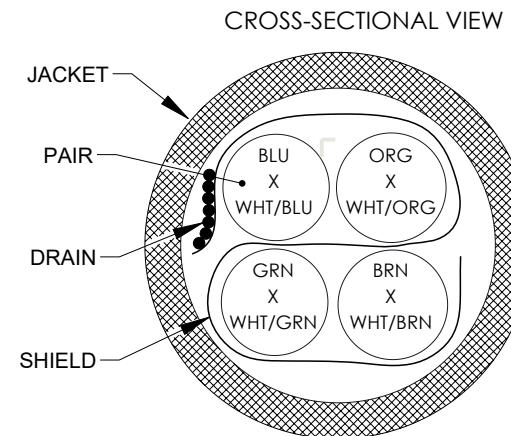
5. APPLICATION:
 SHIELDED FLEXIBLE PATCH/JUMPER CABLE TO SUPPORT SCREENED 568.2-D CATEGORY 6a APPLICATIONS.

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

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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

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

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INTERPRET ALL DIMENSIONS AND
 TOLERANCES PER ASME Y14.5

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%

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