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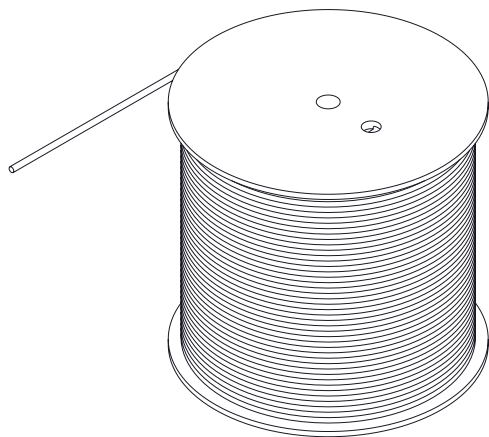
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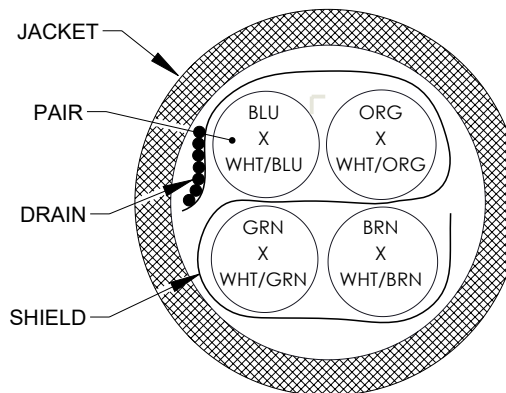
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REVISION					
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	B	UPDATED PER ECO-14084	12/19/2024	HBAKKE	GUTTADAURO

TFCRC6A CONSISTS OF 1000 FEET OF CONTINUOUS LENGTH OF BULK CABLE



CROSS-SECTIONAL VIEW



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

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] 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 CMR CMG 26AWG 1KFT

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

6

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2

1

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 ± 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
NEXT	1 ≤ f ≤ 500 MHz	44.3 - 15 LOG(f/100) dB MIN
PS ACRF	1 ≤ f ≤ 500 MHz	24.8 - 20 LOG(f/100) dB MIN
ACRF	1 ≤ f ≤ 500 MHz	27.8 - 20 LOG(f/100) dB MIN
INSERTION LOSS	1 ≤ f ≤ 500 MHz	1.5[1.82SqRt(f) + 0.0091(f) + 0.25/SqRt(f)] dB MAX
DELAY	1 ≤ f ≤ 500 MHz	534 + 36/SqRt(f) ns MAX
DELAY SKEW	1 ≤ f ≤ 500 MHz	< 45 ns
PS ANEXT LOSS (6 AROUND 1)	1 ≤ f ≤ 500 MHz	62.5 - 15 LOG(f/100) dB
		67 dB
		50-500 MHz
		1-50 MHz
PS AFEXT (6 AROUND 1)	1 ≤ f ≤ 500 MHz	38.2 - 20 LOG(f/100) dB, 67 dB MIN
TCL	1 ≤ f ≤ 500 MHz	30 - 10 LOG(f/100) dB MIN, 40 dB MIN
ELTCTL	1 ≤ f ≤ 30 MHz	35 - 20 LOG(f) dB MIN
VELOCITY OF PROPAGATION	68%	

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