QWC0021

1) CONSTRUCTION:

		NOM. DIA.
CONDUCTOR:	24 AWG 7/32 STRANDED TINNED COPPER	.024"
INSULATION:	HIGH DENSITY POLYETHYLENE, .007" NOM. WALL THICKNESS	.039" MAX.
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS	.078"
CABLE:	(4) TWISTED PAIRS TWISTED TOGETHER TO FORM A CABLE CORE	.160"
JACKET:	POLYVINYLCHLORIDE, **(COLOR, PER CHART 1)**, .027" NOM. WALL THICKNESS	
	OVERALL CABLE DIAMETER	.220" MAX. (BY PI TAPE)

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	60°C & 75°C
TEMPERATURE RATING, MIN.	-20°C
WT./M', NOM., NET.	24.5 LBS.

CHART 1:

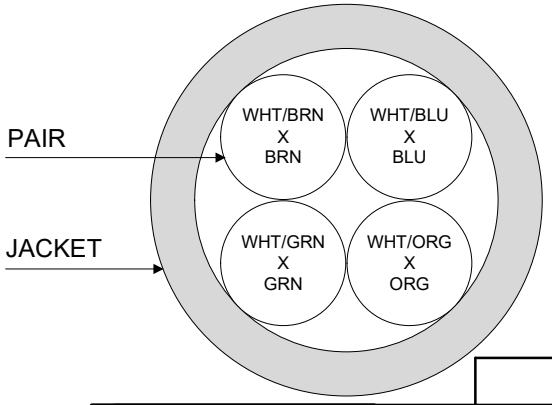
QUABBIN P/N	JACKET COLOR
2200	BLACK
2201	BROWN
2202	RED
2203	ORANGE
2204	YELLOW
2205	GREEN
2206	BLUE
2207	VIOLET
2208	GRAY
2209	WHITE
2210	BEIGE
2211	LIGHT BLUE
2212	PINK
2213	AQUA
2215	LIME

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

4) AGENCY APPROVALS:
NEC (UL) TYPE CMR
CEC C(UL) TYPE CMR

5) APPLICATION:
SUITABLE FOR FUTURE APPLICATIONS AND PROTOCOLS BEYOND 1000BASE-T (GIGABIT ETHERNET).
CABLE FITS STANDARD MODULAR PLUGS. RoHS COMPLIANT MATERIALS.

6) PRINT: (WHITE INK ON BLACK JACKET, ALL OTHERS BLACK INK)
QUABBIN DATAMAX 6E 600 MHZ ENHANCED PATCH CORD P/N **(P/N PER CHART 1)** -- TYPE CMR C(UL)US 24 AWG 75C -- TIA-568.2-D CAT 6 -- RoHS -- **(LOT DESIGNATOR)** **(SEQUENTIAL FOOTAGE)**



7) COLOR CODE:
1. WHITE/BLUE X BLUE
2. WHITE/ORANGE X ORANGE
3. WHITE/GREEN X GREEN
4. WHITE/BROWN X BROWN

8) PUT UPS
AVAILABLE IN STANDARD 1000 FT REELS OR IN LONGER BULK PUTUPS

Created 04/15/11	DRAWN: BMD 08/05/22	QUABBIN® WIRE & CABLE
REV. 07	CHECKED: ZRS 08/08/22	

TITLE
DATAMAX 6 PATCH CABLE

DRAWING # QWC0021 | 1 of 2

CUSTOMER APPROVAL: **DATE:**

3) ELECTRICAL CHARACTERISTICS:

POE COMPLIANT TO 88 METERS WHEN INSTALLED PER RECOMMENDATIONS IN TIA TSB-184
CABLE WILL MEET CAT 6 CHANNEL REQUIREMENTS TO 88 METER LENGTH

CAPACITANCE, MUTUAL, NOM.	13.5 PF/FT. AT 1 MHz
DIELECTRIC WITHSTANDING, MIN.	1500V RMS
VOLTAGE RATING, MAX.	300V
D.C. RESISTANCE, MAX.	26.5 Ω/1000'

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

IMPEDANCE	100 ± 15 Ω 1 - 100 MHz; 100 ± 20 Ω 100 - 600 MHz	
IMPEDANCE, SMOOTHED	100 ± 3 Ω TYPICAL 5 - 500 MHz	
RETURN LOSS	$1 \le f < 10$ MHz	$20 + 5 \log(f)$ dB MIN
	$10 \le f < 20$ MHz	25 dB MIN
	$20 \le f \le 500$ MHz	$25 - 8.6 \log(f/20)$ dB MIN
PS NEXT	$1 \le f \le 250$ MHz	$45.3 - 15 \log(f/100)$ dB MIN
	$250 < f \le 500$ MHz	$42.3 - 15 \log(f/100)$ dB MIN
NEXT	$1 \le f \le 250$ MHz	$47.8 - 15 \log(f/100)$ dB MIN
	$250 < f \le 500$ MHz	$44.3 - 15 \log(f/100)$ dB MIN
PS ACRF	$1 \le f \le 500$ MHz	$24.8 - 20 \log(f/100)$ dB MIN
ACRF	$1 \le f \le 500$ MHz	$27.8 - 20 \log(f/100)$ dB MIN
INSERTION LOSS	$1 \le f \le 500$ MHz	$1.2[1.808 \sqrt{f} + 0.017(f) + 0.2/\sqrt{f}]$ dB MAX
DELAY	$1 \le f \le 500$ MHz	$534 + 36/\sqrt{f}$ ns MAX
DELAY SKEW	$1 \le f \le 500$ MHz	<45 ns MAX
TCL	$1 \le f \le 500$ MHz	$30 - 10 \log(f/100)$ dB MIN
ELTCTL	$1 \le f \le 30$ MHz	$35 - 20 \log(f)$ dB MIN
VELOCITY OF PROPAGATION	68%	

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DRAWING # QWC0021 — 2 of 2

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