

1) CONSTRUCTION:

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

NOM. DIA.
 .024"
 .039" MAX.
 .078"
 .160"

.220" MAX.
 (BY PI TAPE)

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.
 TEMPERATURE RATING, MIN.
 WT./M', NOM., NET.

60°C & 75°C
 -20°C
 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)

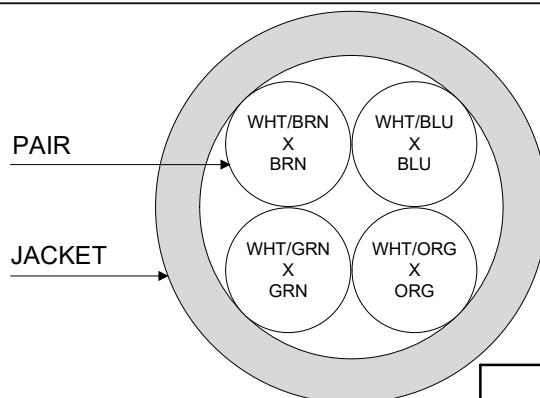
QUABBIN DATAMAX 6E 600 MHZ ENHANCED PATCH CORD P/N **(P/N PER CHART 1)** -- TYPE CMR C(UL)US 24 AWG
 75C -- TIA-568.2-D CAT 6 -- RoHS -- **(LOT DESIGNATOR)**
(SEQUENTIAL FOOTAGE)

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
 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 $\pm$ 15 Ω 1 - 100 MHz; 100 $\pm$ 20 Ω 100 - 600 MHzIMPEDANCE, SMOOTHED 100 $\pm$ 3 Ω TYPICAL 5 - 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	$1 \leq f \leq 250$ MHz	45.3 - 15 LOG($f/100$) dB MIN
	$250 < f \leq 500$ MHz	42.3 - 15 LOG($f/100$) dB MIN

NEXT	$1 \leq f \leq 250$ MHz	47.8 - 15 LOG($f/100$) dB MIN
	$250 < f \leq 500$ 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
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ACRF	$1 \leq f \leq 500$ MHz	27.8 - 20 LOG($f/100$) dB MIN
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INSERTION LOSS	$1 \leq f \leq 500$ MHz	$1.2[1.808 \sqrt{f} + 0.017(f) + 0.2/\sqrt{f}]$ dB MAX
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DELAY	$1 \leq f \leq 500$ MHz	$534 + 36/\sqrt{f}$ ns MAX
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DELAY SKEW	$1 \leq f \leq 500$ MHz	<45 ns MAX
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TCL	$1 \leq f \leq 500$ MHz	30 - 10 LOG($f/100$) dB MIN
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ELTCTL	$1 \leq f \leq 30$ MHz	35 - 20 LOG(f) dB MIN
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VELOCITY OF PROPAGATION	68%
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2 of 2

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