

**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. 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)**

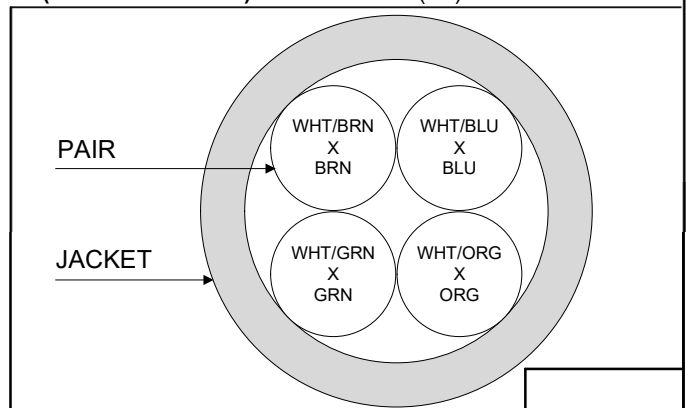
QUABBIN DATAMAX 6E 600 MHZ ENHANCED PATCH CORD P/N **(P/N PER CHART 1)** -- TYPE CMR C(UL)US 24 AWG  
 75C -- TIA-568.2-D CAT 6 -- RoHS -- **(LOT DESIGNATOR)**  
**(SEQUENTIAL FOOTAGE)**

**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



**CUSTOMER APPROVAL:**

**DATE:**

Created 04/15/11  
 DRAWN: BMD 08/05/22  
 REV. 07 ZRS  
 CHECKED: 08/08/22



TITLE

DATAMAX 6 PATCH CABLE

DRAWING # QWC0021


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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 ≤ 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 ≤ 250 MHz		45.3 - 15 LOG(f/100) dB	MIN
	250 < f ≤ 500 MHz		42.3 - 15 LOG(f/100) dB	MIN
NEXT	1 ≤ f ≤ 250 MHz		47.8 - 15 LOG(f/100) dB	MIN
	250 < 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		1.2[1.808 √f + 0.017(f) + 0.2/√f]	dB MAX
DELAY	1 ≤ f ≤ 500 MHz		534 + 36/√f ns	MAX
DELAY SKEW	1 ≤ f ≤ 500 MHz		<45 ns	MAX
TCL	1 ≤ f ≤ 500 MHz		30 - 10 LOG(f/100) dB	MIN
ELTCTL	1 ≤ f ≤ 30 MHz		35 - 20 LOG(f) dB	MIN
VELOCITY OF PROPAGATION	68%			

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