

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)

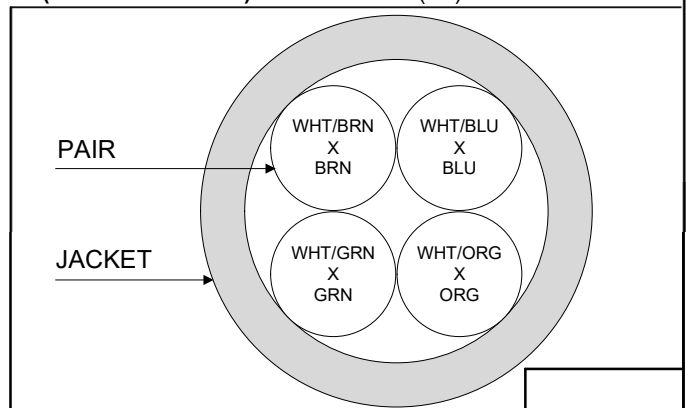
QUABBIN DATAMAX 6E 600 MHZ ENHANCED PATCH CORD P/N **(P/N PER CHART 1)** -- TYPE CMR C(UL)US 24 AWG
 75C -- TIA-568.2-D CAT 6 -- RoHS -- **(LOT DESIGNATOR)**
(SEQUENTIAL FOOTAGE)

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 1 of 2

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% | | | |

| | | |
|--------------------------------|--------------------------|---|
| Created 04/15/11 | DRAWN: BMD 08/05/22 |  |
| REV. 07 | CHECKED: ZRS 08/08/22 | |
| TITLE DATAMAX 6 PATCH CABLE | | |
| DRAWING # | QWC0021 | 2 of 2 |

CUSTOMER APPROVAL: _____ DATE: _____