

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**), .024" NOM. WALL THICKNESS  
 NOM. DIA. .024"  
 .039" MAX  
 .078"  
 .160"  
 OVERALL CABLE DIAMETER .220" MAX

2) PHYSICAL PROPERTIES:  
 TEMPERATURE RATING, MAX. 60°C & 75°C  
 TEMPERATURE RATING, MIN. -20°C  
 WT./M', NOM., NET. 23.7 LBS.  
 POE COMPLIANT (802.3af) TO 87 METERS WHEN INSTALLED PER RECOMMENDATIONS IN TIA TSB-184  
 CABLE WILL MEET CAT 6 CHANNEL REQUIREMENTS TO 87 METER LENGTH  
 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

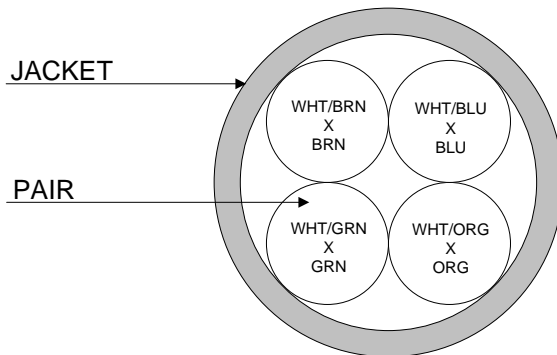
4) AGENCY APPROVALS:  
 NEC (UL) TYPE CMR  
 CSA TYPE CMG

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

6) PRINT:  
 QUABBIN DATAMAX 6E 600 MHZ ENHANCED PATCH CORD P/N (**QWC P/N PER CHART 1\***) -- (UL) TYPE CMR 24 AWG 75C --  
 CSA LL51726 TYPE CMG 60C -- TIA-568-C.2 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: 03/18/16  
 REV. 04 CHECKED: 3/18/16



TITLE

DATAMAX 6 PATCH CABLE

DRAWING # QWC0021

1 of 2


CUSTOMER APPROVAL: \_\_\_\_\_ DATE: \_\_\_\_\_

3) ELECTRICAL CHARACTERISTICS: (FOR 100m OF CABLE)

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'
IMPEDANCE	100 +/- 15 Ω 1-100 MHz; 100 +/-20 Ω 100 TO 600 MHz
IMPEDANCE, SMOOTHED	100 +/- 3 Ω TYPICAL 5 - 500 MHz

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

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.

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		2 of 2

CUSTOMER APPROVAL:

DATE: