

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), .024" NOM. WALL THICKNESS .220" MAX
OVERALL CABLE DIAMETER

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

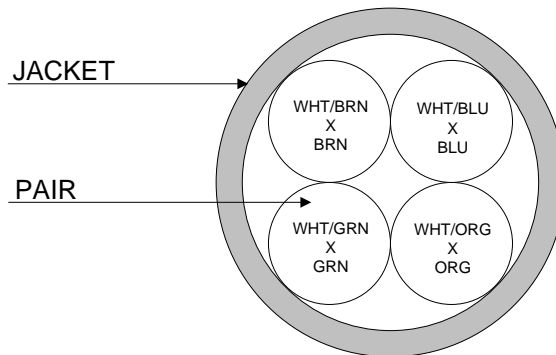
4) AGENCY APPROVALS:
 NEC (UL) TYPE CMR
 CSA TYPE CMG

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: BMD 03/18/16
 REV. 04 CHECKED: JFR 3/18/16



TITLE

DATAMAX 6 PATCH CABLE

DRAWING # QWC0021

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

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.

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DATE: