

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
 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. 23.7 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/CMG
 CEC C(UL) TYPE CMR/CMG
 CSA TYPE CMG*

*NOTE: PRINT LEGEND MAY CONTAIN A CSA CMG OR CEC C(UL) CMG RATING.

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 CMG 24 AWG
 75C -- TIA-568.2-D CAT 6 -- RoHS -- (LOT DESIGNATOR)
 (SEQUENTIAL FOOTAGE)

OR*

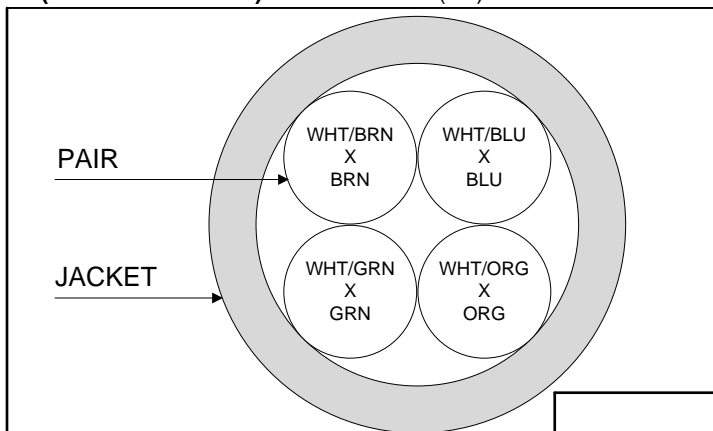
QUABBIN DATAMAX 6E 600 MHZ ENHANCED PATCH CORD
 P/N (P/N PER CHART 1) – (UL) TYPE CMR 24 AWG 75C – CSA
 LL51726 TYPE CMG 60C -- TIA-568.2-D CAT 6 -- RoHS -- (LOT
 DESIGNATOR) (SEQUENTIAL FOOTAGE)

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: SGH 03/30/20
 REV. 06 ZRS
 CHECKED: 03/31/20



TITLE

DATAMAX 6 PATCH CABLE

DRAWING # QWCC0021


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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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