QWC0021

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	
	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

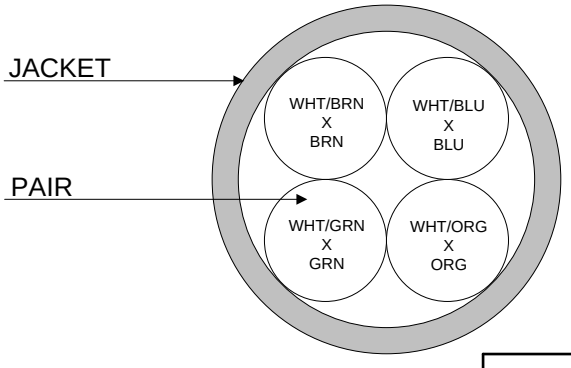
4) AGENCY APPROVALS:
NEC (UL) TYPE CMR
CSA TYPE CMG

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:	BMD 03/18/16	QUABBIN® WIRE & CABLE
REV. 04	CHECKED:	JFR 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	$1 \le f < 10$ MHz	20 + 5 LOG (f) dB MIN
	$10 \le f < 20$ MHz	25 dB MIN
	$20 \le f \le 500$ MHz	25 - 8.6 LOG(f/20) dB MIN
PS NEXT	$1 \le f \le 250$ MHz	45.3 - 15 LOG (f/100) dB MIN
	$250 < f \le 500$ MHz	42.3 - 15 LOG (f/100) dB MIN
NEXT	$1 \le f \le 250$ MHz	47.8 - 15 LOG (f/100) dB MIN
	$250 < f \le 500$ MHz	44.3 - 15 LOG (f/100) dB MIN
PS ACRF	$1 \le f \le 500$ MHz	24.8 - 20 LOG(f/100) dB MIN
ACRF	$1 \le f \le 500$ MHz	27.8 - 20 LOG(f/100) dB MIN
INSERTION LOSS	$1 \le f \le 500$ MHz	1.2[1.808 $\sqrt{f}$ + 0.017(f) + 0.2/$\sqrt{f}$] dB MAX
DELAY	$1 \le f \le 500$ MHz	534 + 36/$\sqrt{f}$ ns MAX
DELAY SKEW	$1 \le f \le 500$ MHz	<45ns MAX
TCL	$1 \le f \le 500$ MHz	30-10 LOG(f/100) MIN
ELTCTL	$1 \le f \le 30$ MHz	35-20 LOG(f) MIN
VELOCITY OF PROPAGATION	68%	

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.

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REV. 04	CHECKED: JFR 3/18/16		
TITLE	DATAMAX 6 PATCH CABLE		
DRAWING #	QWC0021		2 of 2

CUSTOMER APPROVAL: **DATE:**