

1) CONSTRUCTION:

CONDUCTOR:	28 AWG 7/36 STRANDED TINNED COPPER	NOM. DIA.	.015"
INSULATION:	HIGH DENSITY POLYETHYLENE, .008" NOM. WALL THICKNESS		.031" MIN.
			.0322" MAX.
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS		.064"
CABLE:	(4) TWISTED PAIRS TWISTED TOGETHER TO FORM A CABLE CORE		
SHIELD:	AN ALUMINUM POLYESTER ALUMINUM FOIL SHIELD (100% COVERAGE) SHALL BE APPLIED OVER THE CABLE CORE AND SHALL INCLUDE A 28 AWG STRANDED TINNED COPPER DRAIN WIRE IN CONTACT WITH THE OUTER SURFACE.		.146"
JACKET:	POLYVINYLCHLORIDE, (COLOR, PER CHART 1), .020" NOM. WALL THICKNESS	OVERALL CABLE DIAMETER	.186" NOM .191" MAX

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	75°C
TEMPERATURE RATING, MIN.	-20°C
WT./M', NOM., NET.	15.2 LBS.

CHART 1:

QUABBIN P/N	JACKET COLOR
2231	BLACK
2232	BROWN
2233	RED
2234	ORANGE
2235	YELLOW
2236	GREEN
2237	BLUE
2238	VIOLET
2239	GRAY
2240	WHITE
2241	BEIGE
2242	LIGHT BLUE
2243	PINK
2244	AQUA
2245	LIME

3) ELECTRICAL CHARACTERISTICS:

SEE PAGE 2

4) AGENCY APPROVALS:

NEC (UL) TYPE CMR
CEC C(UL) TYPE CMR

5) APPLICATION:

RoHS COMPLIANT MATERIALS. MEETS TIA 568 C.2 CHANNEL REQUIREMENTS AT 56 METERS. 7.8 METERS OF PATCH CABLE WITH A 90 METERS PERMANENT LINK (97.8 METER CHANNEL) OR 10 METERS OF PATCH CABLE WITH AN 86 METER PERMANENT LINK (96 METER CHANNEL). SUPPORTS CAT 6A APPLICATIONS INCLUDING 10GBASE-T AT THESE LENGTHS. PATENT PENDING

6) PRINT: (WHITE INK ON BLACK JACKET, ALL OTHERS BLACK INK)
QUABBIN DATAMAX MINI-6a F/UTP PATCH CORD P/N (**QWC P/N PER CHART 1**) -- PATENT PENDING -- C(UL)US TYPE CMR 28 AWG 75C -- RoHS -- (**LOT DESIGNATOR**) (**SEQUENTIAL FOOTAGE**)

7) COLOR CODE:

1. WHITE/ORANGE X ORANGE
2. WHITE/BROWN X BROWN
3. WHITE/GREEN X GREEN
4. WHITE/BLUE X BLUE

8) PUT UPS

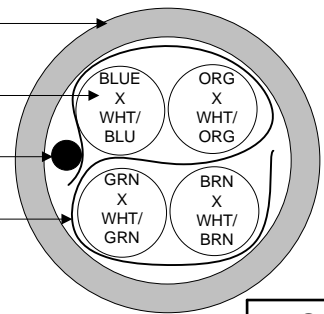
TO BE PACKAGED AS PER QWC'S STANDARD PACKAGING

JACKET

PAIR

DRAIN

SHIELD



PS1584

Created 01/28/15	DRAWN: BMD 05/25/17
REV. 08	CHECKED: GBM 05/25/17



TITLE
DATAMAX MINI-6a 28 AWG CAT 6a F/UTP
PATCH CABLE – TYPE CMR

DRAWING#	QWC0085	1 of 2
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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, NOM.	68.2 Ω/1000'		
IMPEDANCE	100 +/- 15 Ω	1-500 MHz	
IMPEDANCE, SMOOTHED	100 +/- 10 Ω TYPICAL	5 - 500 MHz	
RETURN LOSS	1 ≤ f < 2 MHz	17 + 9.5 LOG (f) dB MIN	
	2 ≤ 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 ≤ 500 MHz	42.3 - 15 LOG(f/100) dB MIN	
NEXT	1 ≤ f ≤ 500 MHz	44.3 - 15 LOG(f/100) dB MIN	
PSACRF	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	1.95 [1.82 √f + 0.0091(f) + 0.25/√f] dB MAX	
DELAY	1 ≤ f ≤ 500 MHz	534 + 36/√f ns MAX	
DELAY SKEW	1 ≤ f ≤ 500 MHz	<45ns MAX	
TCL	1 ≤ f ≤ 500 MHz	30-10LOG(f/100) dB MIN	
ELTCTL	1 ≤ f ≤ 30 MHz	35-20LOG(f) dB MIN	
PS ANEXT LOSS (6 AROUND 1)	1 ≤ f ≤ 500 MHz	62.5 - 15 LOG (F/100) dB MIN	50 - 500 MHz
		67 dB MIN	1 - 50 MHz
PSAACRF	1-500 MHz	38.2 - 20 LOG(F/100) dB MIN	
VELOCITY OF PROPAGATION	68%		

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL, USING 30m LENGTHS.

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PATCH CABLE – TYPE CMR

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