

1) CONSTRUCTION:

CONDUCTOR:	28 AWG 7/36 STRANDED TINNED COPPER	NOM. DIA.	.015"
INSULATION:	HIGH DENSITY POLYETHYLENE, .005" NOM. WALL THICKNESS		.0245"
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS		.049"
CABLE:	(4) TWISTED PAIRS TWISTED TOGETHER TO FORM A CABLE CORE		
JACKET:	POLYVINYLCHLORIDE, ( <b>COLOR, PER CHART 1</b> ), .020" NOM. WALL THICKNESS	OVERALL CABLE DIAMETER	.150" NOM .155" MAX

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	75°C
TEMPERATURE RATING, MIN.	-20°C
WT./M', NOM., NET.	10.8 LBS.

CHART 1:

QUABBIN P/N	JACKET COLOR
2216	BLACK
2217	BROWN
2218	RED
2219	ORANGE
2220	YELLOW
2221	GREEN
2222	BLUE
2223	VIOLET
2224	GRAY
2225	WHITE
2226	BEIGE
2227	LIGHT BLUE
2228	PINK
2229	AQUA
2230	LIME

3) ELECTRICAL CHARACTERISTICS:  
SEE PAGE 2

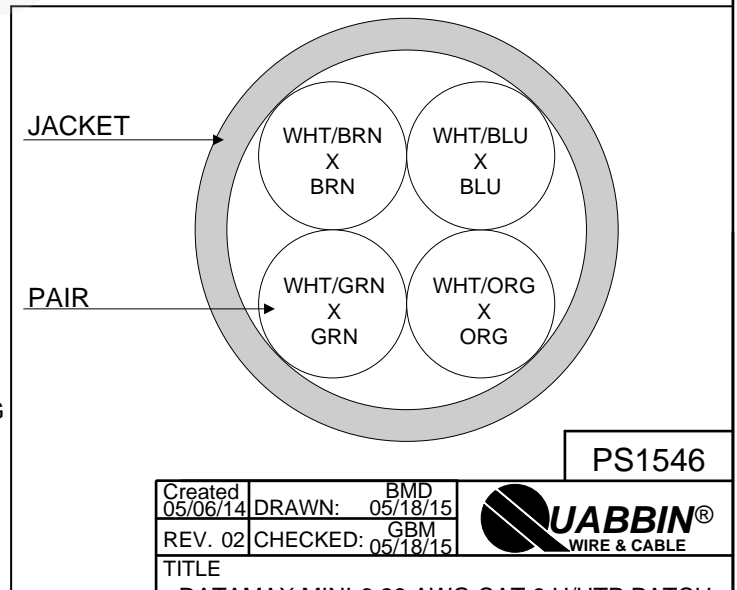
4) AGENCY APPROVALS:  
NEC (UL) TYPE CMR  
CEC C(UL) TYPE CMR

5) APPLICATION:  
RoHS COMPLIANT MATERIALS. MEETS TIA 568 C.2 CHANNEL REQUIREMENTS AT 53 METERS. 6.5 METERS OF PATCH CABLE WITH A 90 METERS PERMANENT LINK (96.5 METER CHANNEL) OR 10 METERS OF PATCH CABLE WITH A 84 METER PERMANENT LINK (94 METER CHANNEL)

6) PRINT: (WHITE INK ON BLACK JACKET, ALL OTHERS BLACK INK)  
QUABBIN DATAMAX MINI-6 U/UTP PATCH CORD P/N (**QWC P/N PER CHART 1**) -- C(UL)US TYPE CMR 28 AWG 75C -- 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  
TO BE PACKAGED AS PER QWC'S STANDARD PACKAGING



PS1546

Created 05/06/14	DRAWN: BMD 05/18/15
REV. 02	CHECKED: GBM 05/18/15



TITLE  
DATAMAX MINI-6 28 AWG CAT 6 U/UTP PATCH CABLE

DRAWING# **QWC0076** 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, NOM.	68.2 $\Omega$ /1000'
IMPEDANCE	100 +/- 15 $\Omega$ 1-250 MHz
IMPEDANCE, SMOOTHED	100 +/- 10 $\Omega$ TYPICAL 5 - 250 MHz
RETURN LOSS	$1 \leq f < 10$ MHz 20 + 5 LOG (F) dB MIN $10 \leq f < 20$ MHz 25 dB MIN $20 \leq f \leq 250$ MHz 25- 8.6 LOG(F/20) dB MIN
PS NEXT	$1 \leq f \leq 250$ MHz 42.3 - 15 LOG(F/100) dB MIN
NEXT	$1 \leq f \leq 250$ MHz 44.3 - 15 LOG(F/100) dB MIN
PSACRF	$1 \leq f \leq 250$ MHz 24.8 - 20 LOG(F/100) dB MIN
ACRF	$1 \leq f \leq 250$ MHz 27.8 - 20 LOG(F/100) dB MIN
INSERTION LOSS	$1 \leq f \leq 250$ MHz 1.8 [1.808 SQRT(F) + 0.017(F) + 0.2/SQRT(F)] dB MAX
DELAY	$1 \leq f \leq 250$ MHz 534 + 36/SQRT(F) ns MAX
DELAY SKEW	$1 \leq f \leq 250$ MHz <45ns MAX
TCL	$1 \leq f \leq 250$ MHz 30-10LOG(F/100)
ELTCTL	$1 \leq f \leq 30$ MHz 35-20LOG(F)
VELOCITY OF PROPAGATION	68%

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.

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