

1) CONSTRUCTION:

CONDUCTOR: 28 AWG 7/36 STRANDED TINNED COPPER
 INSULATION: HIGH DENSITY POLYETHYLENE, .008" NOM. WALL THICKNESS

NOM. DIA.
 .015"
 .031" MIN.
 .0322" MAX.
 .064"

PAIRS: COLOR CODED SINGLES TWISTED INTO PAIRS
 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.
 TEMPERATURE RATING, MIN.
 WT./M', NOM., NET.
 CHART 1:

75°C
 -20°C
 15.2 LBS.

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 (94 METER CHANNEL).
 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 05/26/16	
REV. 06	CHECKED: JFR 5/27/16	
TITLE DATAMAX MINI-6a 28 AWG CAT 6a F/UTP PATCH CABLE – TYPE CMR		
DRAWING#	QWC0085	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 Ω /1000'	
IMPEDANCE	100 +/- 15 Ω 1-500 MHz	
IMPEDANCE, SMOOTHED	100 +/- 10 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 $\leq f \leq 500$ MHz	42.3 - 15 LOG(f/100) dB MIN
NEXT	1 $\leq f \leq 500$ MHz	44.3 - 15 LOG(f/100) dB MIN
PSACRF	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	1.9 [1.82 \sqrt{f} + 0.0091(f) + 0.25/ \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	30-10LOG(f/100)
ELTCTL	1 $\leq f \leq 30$ MHz	35-20LOG(f)
VELOCITY OF PROPAGATION	68%	

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

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TITLE

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

DRAWING#

QWC0085

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CUSTOMER APPROVAL:

DATE: