

1) CONSTRUCTION:

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

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.

JACKET: LOW SMOKE ZERO HALOGEN, (COLOR, PER CHART 1), .023" NOM. WALL THICKNESS

NOM. DIA. .015"
 .031" MIN.
 .0322" MAX.
 .064"
 .146"
 OVERALL CABLE DIAMETER .190" NOM
 .195" MAX

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX. 75°C
 TEMPERATURE RATING, MIN. -20°C
 WT./M', NOM., NET. 16.8 LBS.

CHART 1:

QUABBIN P/N	JACKET COLOR
2270	BLACK
2271	RED
2272	ORANGE
2273	YELLOW
2274	GREEN
2275	BLUE
2276	VIOLET
2277	GRAY
2278	WHITE

3) ELECTRICAL CHARACTERISTICS:
 SEE PAGE 2

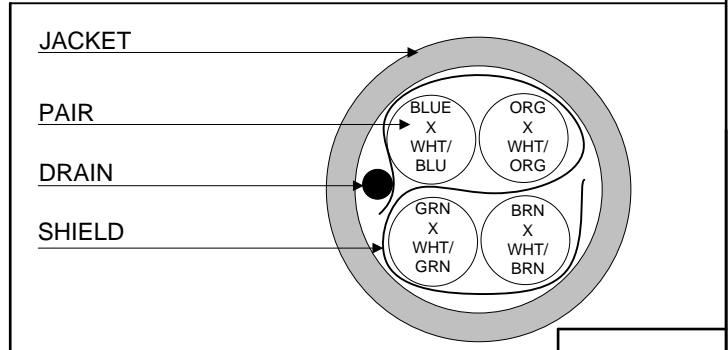
4) AGENCY APPROVALS:
 NEC (UL) TYPE CM-LS
 CEC C(UL) TYPE CM-LS

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 LSZH MINI-6a F/UTP PATCH CORD P/N (QWC P/N PER CHART 1) -- PATENT PENDING -- C(UL)US TYPE CM-LS 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




Created 05/19/17	BMD DRAWN: 05/25/17	
REV. 02	GBM CHECKED: 05/25/17	
TITLE DATAMAX LSZH DUAL RATED MINI-6a 28 AWG CAT 6a F/UTP PATCH CABLE – TYPE CM-LS		
DRAWING#		QWC0104
		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	$1 \leq f < 2$ MHz	17 + 9.5 LOG (f) dB MIN	
	$2 \leq f < 10$ 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	1.95 [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) dB MIN	
ELTCTL	$1 \leq f \leq 30$ MHz	35-20LOG(f) dB MIN	
PS ANEXT LOSS (6 AROUND 1)	$1 \leq f \leq 500$ 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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REV. 02	CHECKED: GBM 05/25/17	
TITLE DATAMAX LSZH DUAL RATED MINI-6a 28 AWG CAT 6a F/UTP PATCH CABLE – TYPE CM-LS		
DRAWING#		QWC0104
		2 of 2

CUSTOMER APPROVAL:

DATE: