

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

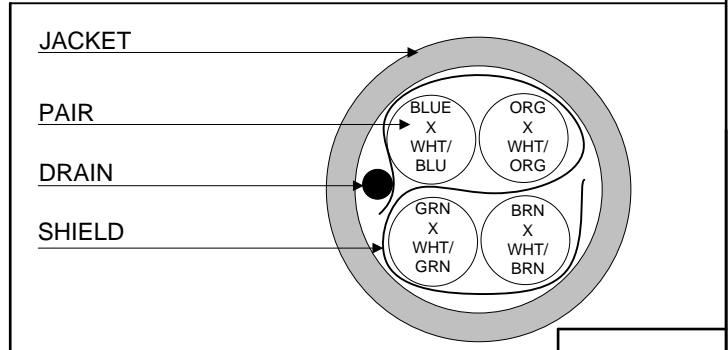
4) AGENCY APPROVALS:
NEC (UL) TYPE CM-LS
CEC C(UL) TYPE CM-LS

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	DRAWN: BMD 05/25/17	
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#		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 ≤ 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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DRAWING#		QWC0104
		2 of 2

CUSTOMER APPROVAL:

DATE: