

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, ( <b>COLOR, PER CHART 1</b> ), .023" NOM. WALL THICKNESS	NOM. DIA. .015" .0325" MIN. .0331" MAX. .064"  .146"  .190" NOM .195" MAX (BY CALIPER)
------------------	---	--

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	75°C
TEMPERATURE RATING, MIN.	-20°C
WT./M', NOM., NET.	16.6 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-ST1  
CEC C(UL) TYPE CM

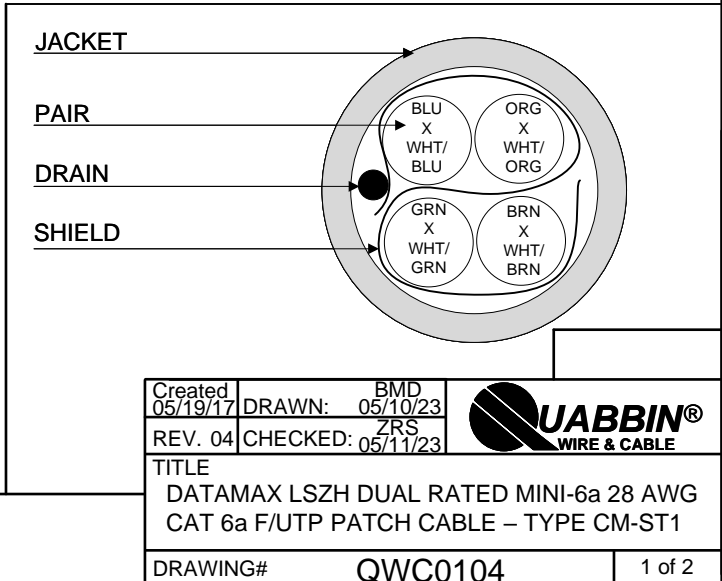
5) APPLICATION:  
RoHS COMPLIANT MATERIALS. MEETS TIA 568.2-D CHANNEL REQUIREMENTS AT 56 METERS. 7.8 METERS OF PATCH CABLE WITH A 90 METERS PERMANENT LINK (97.8 METER CHANNEL) OR 10 METERS OF PATCH CABLE WITH AN 86 METER PERMANENT LINK (96 METER CHANNEL). SUPPORTS CAT 6A APPLICATIONS INCLUDING 10GBASE-T AT THESE LENGTHS. PATENT NO. US 9,355,759 B2.

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 NO. US 9,355,759 B2--  
CM C(UL)US CM-ST1 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 05/10/23	
REV. 04	CHECKED: ZRS 05/11/23	
TITLE DATAMAX LSZH DUAL RATED MINI-6a 28 AWG CAT 6a F/UTP PATCH CABLE – TYPE CM-ST1		
DRAWING#	QWC0104	1 of 2


CUSTOMER APPROVAL: \_\_\_\_\_ DATE: \_\_\_\_\_

3) ELECTRICAL CHARACTERISTICS:

CAPACITANCE, MUTUAL, NOM.	13.5 PF/FT. AT 1 MHz
DIELECTRIC WITHSTANDING, MIN.	1500V RMS
VOLTAGE RATING, MAX.	300V
D.C. RESISTANCE, NOM.	22.4 Ω/100m (68.2 Ω/1000')

**NOTE:** TESTING FOR THE FOLLOWING IS CONDUCTED OFF THE REEL, USING 50m LENGTHS. (FOR 100m OF CABLE)

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	<45 ns	
TCL	1 ≤ f ≤ 500 MHz	30 – 10 LOG(f/100) dB MIN	
ELTCTL	1 ≤ f ≤ 30 MHz	35 – 20 LOG(f) dB MIN	
PS ANEXT LOSS (6 AROUND 1)	1 ≤ f ≤ 500 MHz	62.5 – 15 LOG (f/100) dB MIN 67 dB MIN	50 - 500 MHz 1 - 50 MHz
PSAACRF	1 ≤ f ≤ 500 MHz	38.2 – 20 LOG (f/100) dB MIN	
VELOCITY OF PROPAGATION	68%		

Created 05/19/17	DRAWN: BMD 05/10/23	
REV. 04	CHECKED: ZRS 05/11/23	
TITLE DATAMAX LSZH DUAL RATED MINI-6a 28 AWG CAT 6a F/UTP PATCH CABLE – TYPE CM-ST1		
DRAWING#		QWC0104
		2 of 2

CUSTOMER APPROVAL:

DATE: