

1) CONSTRUCTION:

CONDUCTOR: 24 AWG 7/32 STRANDED TINNED COPPER  
 INSULATION: HIGH DENSITY POLYETHYLENE, .007" NOM. WALL THICKNESS  
 PAIRS: COLOR CODED SINGLES TWISTED INTO PAIRS  
 CABLE: (4) TWISTED PAIRS TWISTED TOGETHER TO FORM A CABLE CORE  
 JACKET: LOW SMOKE ZERO HALOGEN, (COLOR, PER CHART 1), .024" NOM. WALL THICKNESS OVERALL CABLE DIAMETER

NOM. DIA.  
 .024"  
 .039" MAX  
 .078"  
 .173"  
 .227"  
 (BY PI TAPE)

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX. 75°C  
 TEMPERATURE RATING, MIN. -20°C  
 WT./M', NOM., NET. 26.9 LBS.  
 CHART 1:

QUABBIN P/N	JACKET COLOR
2016	BLACK
2017	RED
2018	ORANGE
2019	YELLOW
2020	GREEN
2021	BLUE
2022	VIOLET
2023	GRAY
2024	WHITE

3) ELECTRICAL CHARACTERISTICS:

SEE PAGE 2

4) AGENCY APPROVALS:

NEC (UL) TYPE CM-ST1  
 CEC C(UL) TYPE CM

5) APPLICATION:

UNSHIELDED PATCH/JUMPER CABLE TO SUPPORT TIA 568.2-D CATEGORY 6 APPLICATIONS. RoHS COMPLIANT MATERIALS.

6) PRINT: (WHITE INK ON BLACK JACKET, ALL OTHERS BLACK INK)

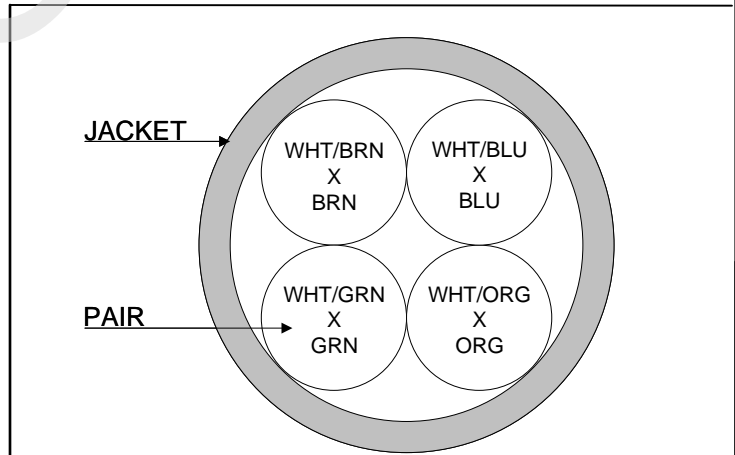
QUABBIN DATAMAX LSZH 6 U/UTP PATCH CORD P/N (QWC P/N PER CHART 1) -- CM C(UL)US CM-ST1 24 AWG 75C -- RoHS -- (LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)

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

AVAILABLE IN STANDARD 1000 FT REELS OR IN LONGER BULK PUTUPS



CUSTOMER APPROVAL:

DATE:

Created: 09/28/18  
 DRAWN: BMD 05/10/23  
 REV. 02 CHECKED: ZRS 05/10/23



TITLE  
 DATAMAX LSZH CAT 6 U/UTP PATCH CABLE -- TYPE CM-ST1

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3) ELECTRICAL CHARACTERISTICS:

CAPACITANCE, MUTUAL	13.5 PF/FT. AT 1 MHz
DIELECTRIC WITHSTANDING, MIN	1500V RMS
VOLTAGE RATING, MAX.	300V
D.C. RESISTANCE, MAX.	14.0 Ω/100m (26.5 Ω/1,000')

NOTE: TESTING FOR THE FOLLOWING IS CONDUCTED OFF THE REEL. (FOR 100m OF CABLE)

IMPEDANCE	100 +/- 15 Ω 1-250 MHz
IMPEDANCE, SMOOTHED	100 +/- 10 Ω TYPICAL 5 - 250 MHz
RETURN LOSS	$1 \leq f < 10 \text{ MHz}$ 20 + 5 LOG (f) dB MIN $10 \leq f < 20 \text{ MHz}$ 25 dB MIN $20 \leq f \leq 250 \text{ MHz}$ 25- 8.6 LOG(f/20) dB MIN
PS NEXT	$1 \leq f \leq 250 \text{ MHz}$ 42.3 - 15 LOG(f/100) dB MIN
NEXT	$1 \leq f \leq 250 \text{ MHz}$ 44.3 - 15 LOG(f/100) dB MIN
PSACRF	$1 \leq f \leq 250 \text{ MHz}$ 24.8 - 20 LOG(f/100) dB MIN
ACRF	$1 \leq f \leq 250 \text{ MHz}$ 27.8 - 20 LOG(f/100) dB MIN
INSERTION LOSS	$1 \leq f \leq 250 \text{ MHz}$ 1.2 [1.808 $\sqrt{f}$ + 0.017(f) + 0.2/ $\sqrt{f}$ ] dB MAX
DELAY	$1 \leq f \leq 250 \text{ MHz}$ 534 + 36/ $\sqrt{f}$ ns MAX
DELAY SKEW	$1 \leq f \leq 250 \text{ MHz}$ <45ns MAX
TCL	$1 \leq f \leq 250 \text{ MHz}$ 30-10LOG(f/100)
ELTCTL	$1 \leq f \leq 30 \text{ MHz}$ 35-20LOG(f)
VELOCITY OF PROPAGATION	68%

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