

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)

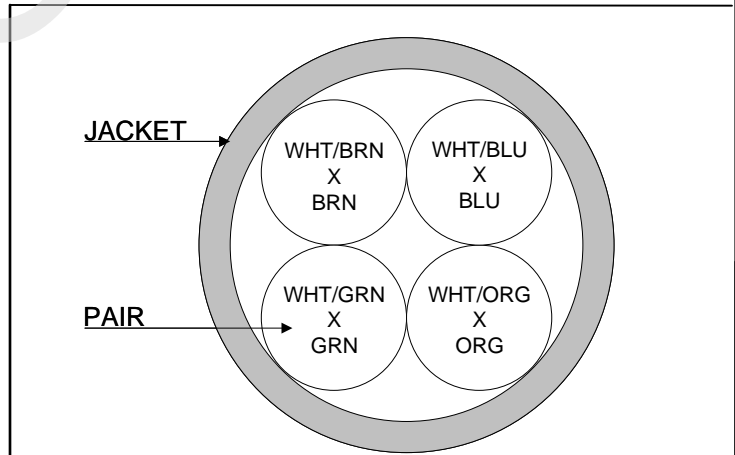
QUABBIN DATAMAX LSZH 6 U/UTP PATCH CORD P/N (QWC P/N PER CHART 1) -- CM C(UL)US CM-ST1 24 AWG 75C -- RoHS -- (LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)

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

DRAWING # QWC0106 1 of 2

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<br>$10 \leq f < 20 \text{ MHz}$ 25 dB MIN<br>$20 \leq f \leq 250 \text{ MHz}$ 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%  |

CUSTOMER APPROVAL:

DATE:

|                     |                          |
|---------------------|--------------------------|
| Created<br>09/28/18 | DRAWN: BMD<br>05/10/23   |
| REV. 02             | CHECKED: ZRS<br>05/10/23 |



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

DRAWING # QWC0106

2 of 2