

1) CONSTRUCTION:

|             |   |                        |  |
|-------------|---|------------------------|--|
| CONDUCTOR:  | 26 AWG 7/34 STRANDED TINNED COPPER  | NOM. DIA.              | .019"                                    |
| INSULATION: | HIGH DENSITY POLYETHYLENE, .011" NOM. WALL THICKNESS  |                        | .0405" ± .001"                           |
| PAIRS:      | COLOR CODED SINGLES TWISTED INTO PAIRS  |                        | .081"                                    |
| CABLE:      | (4) TWISTED PAIRS TWISTED TOGETHER  |                        | .177"                                    |
| SHIELD:     | AN ALUMINUM POLYESTER ALUMINUM FOIL SHIELD (100% COVERAGE) WITH 7 ENDS OF 34 AWG TINNED COPPER DRAIN WIRE IN CONTACT WITH THE METALIZED SURFACE SHALL BE APPLIED OVER THE CABLE CORE. |                        | .180"                                    |
| JACKET:     | LOW SMOKE ZERO HALOGEN, (COLOR, PER CHART 1), .023" NOM. WALL THICKNESS   | OVERALL CABLE DIAMETER | .235" NOM.<br>.240" MAX.<br>(BY PI TAPE) |

2) PHYSICAL PROPERTIES:

|                          |           |
|--------------------------|-----------|
| TEMPERATURE RATING, MAX. | 75°C      |
| TEMPERATURE RATING, MIN. | -20°C     |
| WT./M', NOM., NET.       | 23.4 LBS. |

CHART 1:

| QUABBIN P/N | JACKET COLOR |
|-------------|--------------|
| 2279        | BLACK        |
| 2280        | RED          |
| 2281        | ORANGE       |
| 2282        | YELLOW       |
| 2283        | GREEN        |
| 2284        | BLUE         |
| 2285        | VIOLET       |
| 2286        | GRAY         |
| 2287        | WHITE        |

3) ELECTRICAL CHARACTERISTICS:

SEE PAGE 2

4) AGENCY APPROVALS:

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

5) APPLICATION:

SHIELDED FLEXIBLE PATCH/JUMPER CABLE TO SUPPORT SCREENED 568.2-D CATEGORY 6a APPLICATIONS. RoHS COMPLIANT MATERIALS. PATENT NO. US 9,355,759 B2.

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

QUABBIN DATAMAX LSZH 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 26 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) PACKAGING:

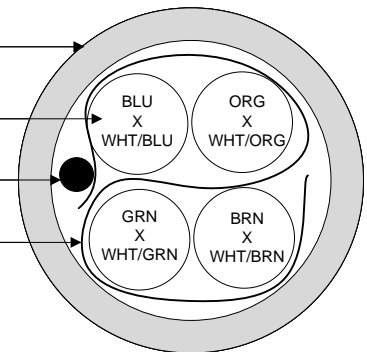
TO BE PACKAGED AS PER QWC'S STANDARD PACKAGING

JACKET

PAIR

DRAIN

SHIELD



CUSTOMER APPROVAL:

DATE:

|                     |                          |
|---------------------|--------------------------|
| Created<br>06/07/18 | DRAWN: 06/20/23<br>BMD   |
| REV. 05             | CHECKED: 06/30/23<br>ZRS |



TITLE  
DATAMAX LSZH DUAL RATED 26 AWG CAT 6a F/UTP PATCH CABLE -- TYPE CM-ST1

DRAWING # QWC0108


1 of 2

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, MAX.         | 14 Ω/100m (42.6 Ω/1,000') |

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

|                            |                          |  |
|----------------------------|--------------------------|--|
| IMPEDANCE, NOM.            | 100 ± 15 Ω 1 - 100 MHz   |  |
|                            | 100 ± 20 Ω 100 - 500 MHz |  |
| RETURN LOSS                | 1 ≤ 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                              |
| PS ACRF                    | 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          | 1.5[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   |
| PS ANEXT LOSS (6 AROUND 1) | 1 ≤ f ≤ 500 MHz          | 62.5 - 15 LOG(f/100) dB 50 - 500 MHz<br>67 dB 1 - 50 MHz |
| PS AFEXT (6 AROUND 1)      | 1 ≤ f ≤ 500 MHz          | 38.2 - 20 LOG(f/100) dB, 67 dB MIN                       |
| TCL                        | 1 ≤ f ≤ 500 MHz          | 30 - 10 LOG(f/100) dB MIN, 40 dB MIN                     |
| ELTCTL                     | 1 ≤ f ≤ 30 MHz           | 35 - 20 LOG(f) dB MIN                                    |
| VELOCITY OF PROPAGATION    | 68%                      |  |

|  |                          |   |
|--|--------------------------|---|
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| REV. 05  | CHECKED: ZRS<br>06/30/23 |   |
| TITLE<br>DATAMAX LSZH DUAL RATED 26 AWG CAT<br>6a F/UTP PATCH CABLE -- TYPE CM-ST1 |                          |   |
| DRAWING #  |                          | QWC0108   |
|  |                          | 2 of 2  |

CUSTOMER APPROVAL:

DATE: