

1) CONSTRUCTION:

CONDUCTOR: 26 AWG 7/34 STRANDED TINNED COPPER  
 INSULATION: HIGH DENSITY POLYETHYLENE, .011" NOM. WALL THICKNESS  
 PAIRS: COLOR CODED SINGLES TWISTED INTO PAIRS  
 CABLE: (4) TWISTED PAIRS TWISTED TOGETHER  
 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.  
 JACKET: POLYVINYLCHLORIDE, (COLOR, PER CHART 1), .024" NOM. WALL THICKNESS

NOM. DIA.  
 .019"  
 .0405"  
 .081"  
 .177"  
 .185"  
 .233" NOM. ± .010"  
 (BY PI TAPE)

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX. 75°C  
 TEMPERATURE RATING, MIN. -20°C  
 WT./M', NOM., NET. 23.2 LBS.

CHART 1:

| QUABBIN P/N | JACKET COLOR |
|-------------|--------------|
| 2157        | BLACK        |
| 2158        | BROWN        |
| 2159        | RED          |
| 2160        | ORANGE       |
| 2161        | YELLOW       |
| 2162        | GREEN        |
| 2163        | BLUE         |
| 2164        | VIOLET       |
| 2165        | GRAY         |
| 2166        | WHITE        |
| 2167        | BEIGE        |
| 2168        | PINK         |

3) ELECTRICAL CHARACTERISTICS:

SEE PAGE 2

4) AGENCY APPROVALS:

NEC (UL) TYPE CMR/CMG  
 CEC C(UL) TYPE CMR/CMG  
 EU CE MARK: MEETS EU DIRECTIVE 2011/65/EU (RoHS II)

5) APPLICATION:

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

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

QUABBIN DATAMAX 6 F/UTP 100 OHM PATCH  
 CORD P/N (QWC P/N PER CHART 1) -- PATENT NO.  
 US 9,355,759 B2 -- TYPE CMR C(UL)US CMG 4 PR 26  
 AWG SHIELDED 75C -- FT4/IEEE 1202 -- CAT 6  
 TIA-568.2-D -- CE 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:

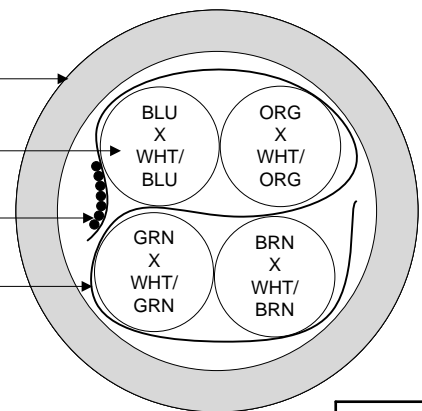
TO BE PACKAGED AS PER QWC'S  
 STANDARD PACKAGING

JACKET

PAIR

DRAIN

SHIELD



Created 12/28/22 DRAWN: SGH 01/12/23  
 REV. 02 CHECKED: ZRS 01/25/23



TITLE  
 4PR. SHIELDED 100 OHM RELAXED PATCH  
 CORD -- CATEGORY 6

DRAWING # QWC0168

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, MAX.         | 42.6 Ω/1,000' (14.0 Ω/100m) |

**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 - 250 MHz |   |
| RETURN LOSS             | 1 ≤ f < 10 MHz           | 20 + 5 LOG(f) dB MIN                        |
|                         | 10 ≤ f < 20 MHz          | 25 dB MIN                                   |
|                         | 20 ≤ f ≤ 250 MHz         | 25 - 8.6 LOG(f/20) dB MIN                   |
| PSNEXT                  | 1 ≤ f ≤ 250 MHz          | 42.3 - 15 LOG (f/100) dB MIN                |
| NEXT                    | 1 ≤ f ≤ 250 MHz          | 44.3 - 15 LOG (f/100) dB MIN                |
| PSACRF                  | 1 ≤ f ≤ 250 MHz          | 24.8 - 20 LOG(f/100) dB MIN                 |
| ACRF                    | 1 ≤ f ≤ 250 MHz          | 27.8 - 20 LOG(f/100) dB MIN                 |
| INSERTION LOSS          | 1 ≤ f ≤ 250 MHz          | 1.5[1.808√(f) + 0.017(f) + 0.2/√(f)] dB MAX |
| DELAY                   | 1 ≤ f ≤ 250 MHz          | 534 + 36/√(f) ns MAX                        |
| DELAY SKEW              | 1 ≤ f ≤ 250 MHz          | <45 ns                                      |
| TCL                     | 1 ≤ f ≤ 250 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%                      |   |

|  |                          |   |
|--|--------------------------|---|
| Created<br>12/28/22  | DRAWN: SGH<br>01/12/23   |  |
| REV. 02  | CHECKED: ZRS<br>01/25/23 |   |
| TITLE<br>4PR. SHIELDED 100 OHM RELAXED PATCH<br>CORD -- CATEGORY 6 |                          |   |
| DRAWING #  |                          | QWC0168   |
|  |                          | 2 of 2  |

CUSTOMER APPROVAL:

DATE: