

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:

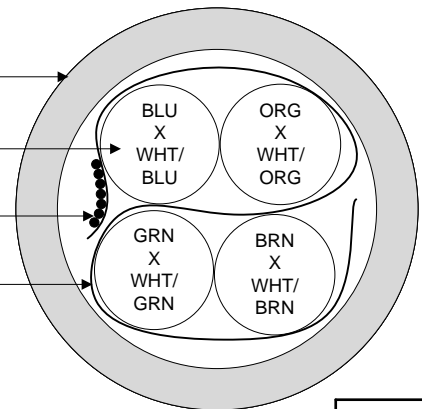
TO BE PACKAGED AS PER QWC'S
 STANDARD PACKAGING

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 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 |
| | | 2 of 2 |

CUSTOMER APPROVAL:

DATE: