

1) CONSTRUCTION:

| | | | |
|-------------|---|------------------------|----------------------------|
| CONDUCTOR: | 26 AWG 7/34 STRANDED TINNED COPPER | NOM. DIA. | .019" |
| INSULATION: | HIGH DENSITY POLYETHYLENE, .011" NOM. WALL THICKNESS | | .0405" |
| 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. | | .185" |
| JACKET: | POLYVINYLCHLORIDE, (COLOR, PER CHART 1), .024" NOM. WALL THICKNESS | OVERALL CABLE DIAMETER | .233" NOM. (BY PI TAPE) |

2) PHYSICAL PROPERTIES:

| | |
|--------------------------|-----------|
| TEMPERATURE RATING, MAX. | 75°C |
| TEMPERATURE RATING, MIN. | -20°C |
| WT./M', NOM., NET. | 23.6 LBS. |

CHART 1:

| QUABBIN P/N | JACKET COLOR |
|-------------|--------------|
| 2246 | BLACK |
| 2247 | BROWN |
| 2248 | RED |
| 2249 | ORANGE |
| 2250 | YELLOW |
| 2251 | GREEN |
| 2252 | BLUE |
| 2253 | VIOLET |
| 2254 | GRAY |
| 2255 | WHITE |
| 2256 | BEIGE |
| 2257 | PINK |
| 2258 | AQUA |
| 2259 | LIGHT BLUE |

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 6a APPLICATIONS.
 PATENT PENDING

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

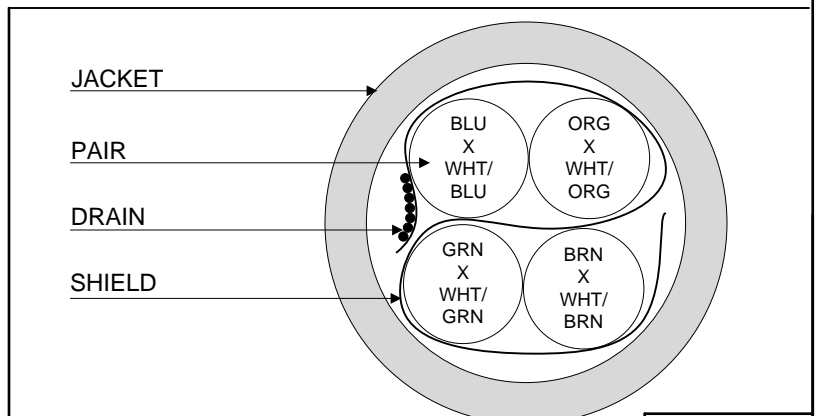
QUABBIN DATAMAX 6a F/UTP 100 OHM PATCH CORD P/N (**QWC P/N PER CHART 1**) -- TYPE CMR C(UL)US CMG 4 PR 26 AWG SHIELDED 75C -- FT4/IEEE 1202 -- CAT 6a TIA-568.2-D -- CE RoHS -- (**LOT DESIGNATOR**) (**SEQUENTIAL FOOTAGE**)

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



CUSTOMER APPROVAL:

DATE:

| | |
|---------------------|--------------------------|
| Created 08/07/15 | DRAWN: SGH 02/22/21 |
| REV. 07 | CHECKED: ZRS 03/02/21 |



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

DRAWING # QWC0091


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. | 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 \pm 15 Ω 1 – 100 MHz 100 \pm 20 Ω 100 – 500 MHz | | | | | | |
| RETURN LOSS | <table> <tr> <td>$1 \leq f < 10$ MHz</td> <td>20 + 5 LOG(f) dB MIN</td> </tr> <tr> <td>$10 \leq f < 20$ MHz</td> <td>25 dB MIN</td> </tr> <tr> <td>$20 \leq f \leq 500$ MHz</td> <td>25 – 8.6 LOG($f/20$) dB MIN</td> </tr> </table> | $1 \leq f < 10$ MHz | 20 + 5 LOG(f) dB MIN | $10 \leq f < 20$ MHz | 25 dB MIN | $20 \leq f \leq 500$ MHz | 25 – 8.6 LOG($f/20$) dB MIN |
| $1 \leq f < 10$ MHz | 20 + 5 LOG(f) dB MIN | | | | | | |
| $10 \leq f < 20$ MHz | 25 dB MIN | | | | | | |
| $20 \leq f \leq 500$ MHz | 25 – 8.6 LOG($f/20$) dB MIN | | | | | | |
| PS NEXT | $1 \leq f \leq 500$ MHz 42.3 – 15 LOG ($f/100$) dB MIN | | | | | | |
| NEXT | $1 \leq f \leq 500$ MHz 44.3 – 15 LOG ($f/100$) dB MIN | | | | | | |
| PS ACRF | $1 \leq f \leq 500$ MHz 24.8 – 20 LOG($f/100$) dB MIN | | | | | | |
| ACRF | $1 \leq f \leq 500$ MHz 27.8 – 20 LOG($f/100$) dB MIN | | | | | | |
| INSERTION LOSS | $1 \leq f \leq 500$ MHz 1.5[1.82 \sqrt{f} + 0.0091(f) + 0.25/ \sqrt{f}] dB MAX | | | | | | |
| DELAY | $1 \leq f \leq 500$ MHz 534 + 36/ \sqrt{f} ns MAX | | | | | | |
| DELAY SKEW | $1 \leq f \leq 500$ MHz <45 ns | | | | | | |
| PS ANEXT LOSS (6 AROUND 1) | <table> <tr> <td>$1 \leq f \leq 500$ MHz</td> <td>62.5 – 15 LOG ($f/100$) dB 50 - 500 MHz</td> </tr> <tr> <td></td> <td>67 dB 1 - 50 MHz</td> </tr> </table> | $1 \leq f \leq 500$ MHz | 62.5 – 15 LOG ($f/100$) dB 50 - 500 MHz | | 67 dB 1 - 50 MHz | | |
| $1 \leq f \leq 500$ MHz | 62.5 – 15 LOG ($f/100$) dB 50 - 500 MHz | | | | | | |
| | 67 dB 1 - 50 MHz | | | | | | |
| PS AACRF (6 AROUND 1) | $1 \leq f \leq 500$ MHz 38.2 – 20 LOG($f/100$) dB, 67 dB MIN | | | | | | |
| TCL | $1 \leq f \leq 500$ MHz 30 – 10 LOG($f/100$) dB MIN, 40 dB MIN | | | | | | |
| ELTCTL | $1 \leq f \leq 30$ MHz 35 – 20 LOG(f) dB MIN | | | | | | |
| VELOCITY OF PROPAGATION | 68% | | | | | | |

| | | |
|---|--------------------------|---|
| Created 08/07/15 | DRAWN: SGH 02/22/21 |  |
| REV. 07 | CHECKED: ZRS 03/02/21 | |
| TITLE 4PR. SHIELDED 100 OHM RELAXED PATCH CORD -- CATEGORY 6a | | |
| DRAWING # | | QWMC0091 |
| | | 2 of 2 |

CUSTOMER APPROVAL:

DATE: