

1) CONSTRUCTION:

| | | |
|-------------|---|--------------|
| CONDUCTOR: | 26 AWG 7/34 STRANDED TINNED COPPER | NOM. DIA. |
| INSULATION: | HIGH DENSITY POLYETHYLENE, .009" NOM. WALL THICKNESS | .019" |
| PAIRS: | COLOR CODED SINGLES TWISTED INTO PAIRS | .036" |
| CABLE: | (4) TWISTED PAIRS TWISTED TOGETHER WITH A CENTRAL SPLINE AND WRAPPED WITH A CLEAR POLYESTER BINDER TO FORM A CABLE CORE. | .072" |
| SHIELD: | AN ALUMINIZED POLYESTER FOIL SHIELD (FOIL IN, 100% COVERAGE) WITH A 26 AWG 7/34 STRANDED TINNED COPPER DRAIN WIRE IN CONTACT WITH METALIZED SURFACE SHALL BE APPLIED OVER THE CABLE CORE. | .205" |
| JACKET: | POLYVINYLCHLORIDE, (COLOR, PER CHART 1), .024" NOM. WALL THICKNESS | .208" |
| | OVERALL CABLE DIAMETER | .235" NOM. |
| | | .240" MAX. |
| | | (BY PI TAPE) |

2) PHYSICAL PROPERTIES:

| | |
|--------------------------|-----------|
| TEMPERATURE RATING, MAX. | 75°C |
| TEMPERATURE RATING, MIN. | -20°C |
| WT./M', NOM., NET. | 24.5 LBS. |

CHART 1:

| QUABBIN P/N | JACKET COLOR |
|-------------|--------------|
| 2942 | BLACK |
| 2943 | BROWN |
| 2944 | RED |
| 2945 | ORANGE |
| 2946 | YELLOW |
| 2947 | GREEN |
| 2948 | BLUE |
| 2949 | VIOLET |
| 2950 | GRAY |
| 2951 | WHITE |
| 2952 | BEIGE |
| 2953 | PINK |
| 2991 | AQUA |

3) ELECTRICAL CHARACTERISTICS:

SEE PAGE 2

4) AGENCY APPROVALS:

NEC (UL) TYPE CMR/CMG
CEC C(UL) TYPE CMR/CMG

5) APPLICATION:

SHIELDED FLEXIBLE PATCH/JUMPER CABLE TO SUPPORT SCREENED 568.2-D CATEGORY 6a APPLICATIONS.
RoHS COMPLIANT MATERIALS.

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

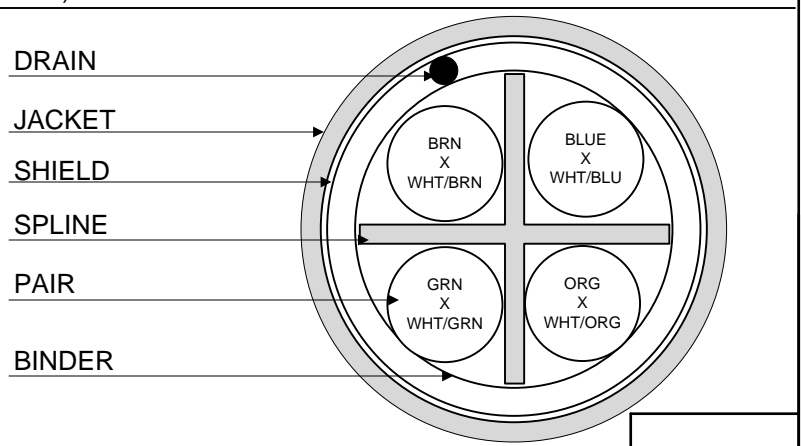
QUABBIN DATAMAX 6a F/UTP 100 OHM PATCH CORD P/N (**QWC P/N PER CHART 1**) -- TYPE CMR C(UL)US CMG 4 PR 26 AWG SHIELDED 75C -- FT4/IEEE 1202 -- CAT 6a TIA-568.2-D -- RoHS -- (**LOT DESIGNATOR**) (**SEQUENTIAL FOOTAGE**)

7) COLOR CODE:

1. BLUE X WHITE/BLUE
2. ORANGE X WHITE/ORANGE
3. GREEN X WHITE/GREEN
4. BROWN X WHITE/BROWN

8) PACKAGING:

TO BE PACKAGED AS PER QWC'S STANDARD PACKAGING



DRAIN

JACKET

SHIELD

SPLINE

PAIR

BINDER

| | |
|---------------------|--------------------------|
| Created 04/08/11 | DRAWN: SGH 01/21/21 |
| REV. 04 | CHECKED: ZRS 01/27/21 |



TITLE

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

| | | |
|-----------|---------|--------|
| DRAWING # | QWC0023 | 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 \pm 15 Ω 1 – 100 MHz | | |
| | 100 \pm 20 Ω 100 – 500 MHz | | |
| RETURN LOSS | 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 | <45ns | |
| PS ANEXT LOSS (6 AROUND 1) | 1 $\leq f \leq$ 500 MHz | 62.5 – 15 LOG(f /100) dB | 50 – 500 MHz |
| | | 67 dB | 1 – 50 MHz |
| PS AFEXT (6 AROUND 1) | 1 $\leq f \leq$ 500 MHz | 38.2 – 20 LOG(f /100) dB | |
| VELOCITY OF PROPAGATION | 68% | | |

| | |
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