

1) CONSTRUCTION:

CONDUCTOR: 26 AWG 7/34 STRANDED TINNED COPPER  
 INSULATION: FOAMED FEP, .010" NOM. WALL THICKNESS  
 PAIRS: COLOR CODED SINGLES TWISTED INTO PAIRS  
 CABLE: (4) TWISTED PAIRS TWISTED TOGETHER TO FORM A CABLE CORE  
 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: LOW SMOKE POLYVINYLCHLORIDE, (**COLOR, PER CHART 1**), .021" NOM. WALL THICKNESS

NOM. DIA.  
 .0189"  
 .039"  
 .078"  
 .181"  
 OVERALL CABLE DIAMETER  
 .223" NOM.  
 (BY CALIPER)

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX. 105°C  
 TEMPERATURE RATING, MIN. -20°C  
 WT./M', NOM., NET. 22.2 LBS.

CHART 1:

| QUABBIN P/N | JACKET COLOR    |
|-------------|-----------------|
| 2056        | BLACK           |
| 2057        | BROWN           |
| 2058        | RED             |
| 2059        | ORANGE          |
| 2060        | YELLOW          |
| 2061        | GREEN           |
| 2062        | BLUE            |
| 2063        | VIOLET          |
| 2064        | GRAY            |
| 2065        | WHITE           |
| 2066        | STARLIGHT BEIGE |

3) ELECTRICAL CHARACTERISTICS:

SEE PAGE 2

4) AGENCY APPROVALS:

NEC (ETL) TYPE CMP  
 CEC C(ETL) TYPE CMP

5) APPLICATION:

RoHS COMPLIANT MATERIALS. MEETS TIA 568.2-D CAT 6A CHANNEL REQUIREMENTS AT 70 METERS. 10 METERS OF PATCH CABLE WITH A 90 METERS PERMANENT LINK (100 METER CHANNEL). SUPPORTS CAT 6A APPLICATIONS INCLUDING 10GBASE-T AT THESE LENGTHS, FOR OTHER COMBINATIONS SEE "CHANNEL REQUIREMENTS AND THE LENGTH OF STRANDED CABLE" TECHNICAL BRIEF. PATENT PENDING.

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

QUABBIN DATAMAX CAT 6a F/UTP PATCH CORD P/N (**QWC P/N PER CHART 1**) -- PATENT PENDING -- C(ETL)US TYPE CMP 26 AWG 105C -- RoHS -- (**LOT DESIGNATOR**) (**SEQUENTIAL FOOTAGE**)

7) COLOR CODE:

1. NATURAL X ORANGE
2. GRAY X BROWN
3. NATURAL X GREEN
4. GRAY X BLUE

8) PUT UPS

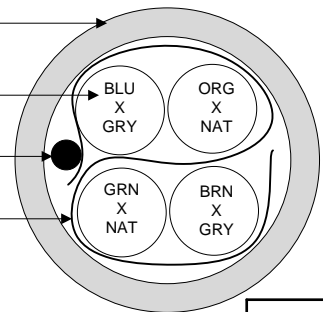
TO BE PACKAGED AS PER QWC'S STANDARD PACKAGING

JACKET

PAIR

DRAIN

SHIELD



Created 04/19/19  
 DRAWN: SGH 07/21/20  
 REV. 02  
 CHECKED: ZRS 07/21/20



TITLE  
 DATAMAX 26 AWG CAT 6a F/UTP PATCH CABLE  
 - TYPE CMP

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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.         | 14.0 $\Omega$ (42.6 $\Omega$ /1,000' NOM.) |

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

|                            |                                   |   |
|----------------------------|-----------------------------------|---|
| IMPEDANCE, NOM.            | 100 $\pm$ 15 $\Omega$ 1 - 100 MHz | 100 $\pm$ 20 $\Omega$ 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         | <45 ns  |
| PS ANEXT LOSS (6 AROUND 1) | 1 $\leq$ f $\leq$ 500 MHz         | 62.5 - 15 LOG(f/100) dB 50 - 500 MHz<br>67 dB 1 - 50 MHz    |
| PS AFEXT (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%                               |   |

|                     |                          |
|---------------------|--------------------------|
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| REV. 02             | CHECKED: ZRS<br>07/21/20 |



|       |   |
|-------|---|
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