

1) CONSTRUCTION:

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|-------------|---|------------------------|--------------------------|
| CONDUCTOR: | 28 AWG 7/36 STRANDED TINNED COPPER | NOM. DIA. | .015" |
| INSULATION: | FOAMED FEP, .008" NOM. WALL THICKNESS | | .031" |
| PAIRS: | COLOR CODED SINGLES TWISTED INTO PAIRS | | .062" |
| CABLE: | (4) TWISTED PAIRS TWISTED TOGETHER TO FORM A CABLE CORE | | |
| SHIELD: | AN ALUMINUM POLYESTER ALUMINUM FOIL SHIELD (100% COVERAGE) SHALL BE APPLIED OVER THE CABLE CORE AND SHALL INCLUDE A 28 AWG STRANDED TINNED COPPER DRAIN WIRE IN CONTACT WITH THE OUTER SURFACE. | | .145" |
| JACKET: | LOW SMOKE POLYVINYLCHLORIDE, (COLOR, PER CHART 1), .021" NOM. WALL THICKNESS | OVERALL CABLE DIAMETER | .186" NOM. .191" MAX. |

2) PHYSICAL PROPERTIES:

| | |
|--------------------------|-----------|
| TEMPERATURE RATING, MAX. | 105°C |
| TEMPERATURE RATING, MIN. | -20°C |
| WT./M', NOM., NET. | 16.5 LBS. |

CHART 1:

| QUABBIN P/N | JACKET COLOR |
|-------------|-----------------|
| 2034 | BLACK |
| 2035 | BROWN |
| 2036 | RED |
| 2037 | ORANGE |
| 2038 | YELLOW |
| 2039 | GREEN |
| 2040 | BLUE |
| 2041 | VIOLET |
| 2042 | GRAY |
| 2043 | WHITE |
| 2044 | 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 CHANNEL REQUIREMENTS AT 56 METERS. 7.8 METERS OF PATCH CABLE WITH A 90 METERS PERMANENT LINK (97.8 METER CHANNEL) OR 10 METERS OF PATCH CABLE WITH AN 86 METER PERMANENT LINK (96 METER CHANNEL). SUPPORTS CAT 6A APPLICATIONS INCLUDING 10GBASE-T AT THESE LENGTHS. PATENT PENDING.

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

QUABBIN DATAMAX MINI-6a F/UTP PATCH CORD P/N (QWC P/N PER CHART 1) -- PATENT PENDING -- C(ETL)US TYPE CMP 28 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

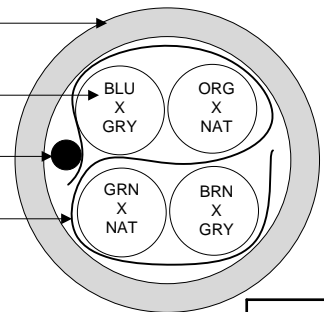
TO BE PACKAGED AS PER QWC'S STANDARD PACKAGING

JACKET

PAIR

DRAIN

SHIELD



| | |
|---------------------|--------------------------|
| Created 11/14/18 | SGH DRAWN: 07/21/20 |
| REV. 06 | ZRS CHECKED: 07/21/20 |



TITLE
DATAMAX MINI-6a 28 AWG CAT 6a F/UTP
PATCH CABLE – TYPE CMP

DRAWING# QWC0114

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, NOM. | 22.4 Ω /100m (68.2 Ω /1000') |

NOTE: TESTING FOR THE FOLLOWING IS CONDUCTED OFF THE REEL, USING 50m LENGTHS. (FOR 100m OF CABLE)

| | | | |
|----------------------------|-----------------------------------|---|--------------|
| IMPEDANCE | 100 \pm 15 Ω 1 - 500 MHz | | |
| IMPEDANCE, SMOOTHED | 100 \pm 10 Ω TYPICAL | 5 - 500 MHz | |
| RETURN LOSS | 1 $\leq f <$ 2 MHz | 17 + 9.5 LOG (f) dB MIN | |
| | 2 $\leq f <$ 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 | |
| PSACRF | 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 | 1.95 [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 MAX | |
| TCL | 1 $\leq f \leq$ 500 MHz | 30 - 10 LOG(f/100) dB MIN | |
| ELTCTL | 1 $\leq f \leq$ 30 MHz | 35 - 20 LOG(f) dB MIN | |
| PS ANEXT LOSS (6 AROUND 1) | 1 $\leq f \leq$ 500 MHz | 62.5 - 15 LOG (f/100) dB MIN | 50 - 500 MHz |
| | | 67 dB MIN | 1 - 50 MHz |
| PSAACRF | 1 $\leq f \leq$ 500 MHz | 38.2 - 20 LOG(f/100) dB MIN | |
| VELOCITY OF PROPAGATION | 68% | | |

| | |
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DRAWING# QWC0114

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