| 1) CONSTRUCTION:  |  |  | NOM. DIA.   |  |  |  |  |
|---|--|--|---|--|--|--|--|
|   | : 26 AWG 7/34 STRANDED TI  |  | .019"<br>.039" MAX.<br>.078"  |  |  |  |  |
|   | POLYOLEFIN, .010" NOM. W   |  | .039" MAX.  |  |  |  |  |
| PAIRS:  | .078"  |  |   |  |  |  |  |
| CABLE:  | COLOR CODED SINGLES TY<br>(4) TWISTED PAIRS TWISTE   | ED TOGETHER AND WRAPPED WITH A   |   |  |  |  |  |
| O, IBEE.  | CLEAR POLYESTER BINDER TO FORM A CABLE CORE.   |  |   |  |  |  |  |
| SHIELDS:  |  | POLYESTER FOIL SHIELD (FOIL OUT, 1009  | .149"   |  |  |  |  |
| OT ILLED O.   |  | PLIED OVER THE CABLE CORE AND SHAL   |   |  |  |  |  |
|   |  | RANDED TINNED COPPER DRAIN WIRE II   |   |  |  |  |  |
|   |  | LIZED SURFACE. A SECOND SHIELD OF 3  |   |  |  |  |  |
|   |  | ID (85% MINIMUM COVERAGE), SHALL BE  |   |  |  |  |  |
|   | APPLIED OVER THE FOIL S  | .170"  |   |  |  |  |  |
| JACKET:   |  | DB), <b>(COLOR, PER CHART 1)</b> , .022" NOM. W  |   |  |  |  |  |
| 0,1011211   | THICKNESS (PRESSURE)   |  | .220" ± .010"   |  |  |  |  |
|   |  |  | (BY PI TAPE)  |  |  |  |  |
|   |  |  |   |  |  |  |  |
| 2) PHYSICAL PROPE   | RTIFS  |  |   |  |  |  |  |
| ,   | RE RATING, MAX.  | 75°C   |   |  |  |  |  |
|   | RE RATING, MIN.  | -40°C  |   |  |  |  |  |
| WT./M', NOM.  |  | 35.0 LBS.  |   |  |  |  |  |
| UV RESISTAN   | · · · · · · · · · · · · · · · · · · ·  |  |   |  |  |  |  |
| CHART 1:  |  |  |   |  |  |  |  |
| QUABBIN P   | /N JACKET COLOR  |  |   |  |  |  |  |
| 5730  | BLACK  |  |   |  |  |  |  |
| 5731  | BLUE   |  |   |  |  |  |  |
| 5732  | TEAL   |  |   |  |  |  |  |
|   |  |  |   |  |  |  |  |
| 3) ELECTRICAL CHAP  | RACTERISTICS:  |  |   |  |  |  |  |
| SEE PAGE 2  |  |  |   |  |  |  |  |
|   |  |  |   |  |  |  |  |
| 4) AGENCY APPROVA   | ALS:   |  |   |  |  |  |  |
| ,   |  |  |   |  |  |  |  |
| ,   |  |  |   |  |  |  |  |
|   |  |  |   |  |  |  |  |
| 5) APPLICATION:   |  |  |   |  |  |  |  |
| 5) APPLICATION:   | IANT MATERIALS   |  |   |  |  |  |  |
| 5) APPLICATION:<br>RoHS COMPL   | IANT MATERIALS   |  |   |  |  |  |  |
| 5) APPLICATION:<br>RoHS COMPL<br>6) PRINT: (WHITE INK   | IANT MATERIALS   |  |   |  |  |  |  |
| 5) APPLICATION:<br>RoHS COMPL<br>6) PRINT: (WHITE INK<br>QUABBIN DAT  | IANT MATERIALS<br>ON BLACK JACKET, ALL OTI<br>TAMAX EXTREME DURABLE I  | NDUSTRIAL ETHERNET PATCH CORD CA   | T 5e SF/UTP P/N <b>(P/N</b>   |  |  |  |  |
| 5) APPLICATION:<br>RoHS COMPL<br>6) PRINT: (WHITE INK<br>QUABBIN DAT  | IANT MATERIALS<br>ON BLACK JACKET, ALL OTI<br>TAMAX EXTREME DURABLE I  |  | T 5e SF/UTP P/N <b>(P/N</b>   |  |  |  |  |
| 5) APPLICATION:<br>RoHS COMPL<br>6) PRINT: (WHITE INK<br>QUABBIN DAT<br><b>PER CHART</b> 1  | IANT MATERIALS<br>ON BLACK JACKET, ALL OTI<br>TAMAX EXTREME DURABLE I  | NDUSTRIAL ETHERNET PATCH CORD CA   | T 5e SF/UTP P/N <b>(P/N</b>   |  |  |  |  |
| 5) APPLICATION:<br>RoHS COMPL<br>6) PRINT: (WHITE INK<br>QUABBIN DAT<br><b>PER CHART</b> 1  | IANT MATERIALS<br>ON BLACK JACKET, ALL OTH<br>TAMAX EXTREME DURABLE I<br>I) RoHS <b>(LOT DESIGNATO</b>   | NDUSTRIAL ETHERNET PATCH CORD CA   | T 5e SF/UTP P/N <b>(P/N</b>   |  |  |  |  |
| <ul> <li>5) APPLICATION:<br/>RoHS COMPL</li> <li>6) PRINT: (WHITE INK<br/>QUABBIN DAT<br/>PER CHART 1</li> <li>7) COLOR CODE:<br/>1. BLUE X WH</li> </ul>   | IANT MATERIALS<br>ON BLACK JACKET, ALL OTH<br>TAMAX EXTREME DURABLE I<br>I) RoHS <b>(LOT DESIGNATO</b>   | NDUSTRIAL ETHERNET PATCH CORD CA   | T 5e SF/UTP P/N <b>(P/N</b>   |  |  |  |  |
| <ul> <li>5) APPLICATION:<br/>RoHS COMPL</li> <li>6) PRINT: (WHITE INK<br/>QUABBIN DAT<br/>PER CHART 1</li> <li>7) COLOR CODE:<br/>1. BLUE X WH<br/>2. ORANGE X<br/>3. GREEN X W</li> </ul>  | IANT MATERIALS<br>CON BLACK JACKET, ALL OTH<br>TAMAX EXTREME DURABLE I<br>I) RoHS <b>(LOT DESIGNATO</b><br>HITE/BLUE<br>WHITE/ORANGE<br>WHITE/GREEN                | DRAIN  | T 5e SF/UTP P/N <b>(P/N</b>   |  |  |  |  |
| <ul> <li>5) APPLICATION:<br/>RoHS COMPL</li> <li>6) PRINT: (WHITE INK<br/>QUABBIN DAT<br/>PER CHART 1</li> <li>7) COLOR CODE:<br/>1. BLUE X WH<br/>2. ORANGE X<br/>3. GREEN X W</li> </ul>  | IANT MATERIALS<br>CON BLACK JACKET, ALL OTH<br>TAMAX EXTREME DURABLE I<br>I) RoHS <b>(LOT DESIGNATC</b><br>IITE/BLUE<br>WHITE/ORANGE                               | NDUSTRIAL ETHÉRNET PATCH CORD CA<br>DR) (SEQUENTIAL FOOTAGE)   | N BLU   |  |  |  |  |
| 5) APPLICATION:<br>RoHS COMPL<br>6) PRINT: (WHITE INK<br>QUABBIN DAT<br><b>PER CHART 1</b><br>7) COLOR CODE:<br>1. BLUE X WH<br>2. ORANGE X<br>3. GREEN X W<br>4. BROWN X M   | IANT MATERIALS<br>CON BLACK JACKET, ALL OTH<br>TAMAX EXTREME DURABLE I<br>I) RoHS <b>(LOT DESIGNATO</b><br>HITE/BLUE<br>WHITE/ORANGE<br>WHITE/GREEN                | DRAIN  | N BLU<br>X  |  |  |  |  |
| <ul> <li>5) APPLICATION:<br/>RoHS COMPL</li> <li>6) PRINT: (WHITE INK<br/>QUABBIN DAT<br/>PER CHART 1</li> <li>7) COLOR CODE:<br/>1. BLUE X WH<br/>2. ORANGE X<br/>3. GREEN X W<br/>4. BROWN X V</li> <li>8) PACKAGING:</li> </ul>                        | IANT MATERIALS<br>CON BLACK JACKET, ALL OTH<br>TAMAX EXTREME DURABLE I<br>I) RoHS <b>(LOT DESIGNATO</b><br>HITE/BLUE<br>WHITE/ORANGE<br>WHITE/GREEN                | DRAIN<br>BRAID   | N BLU<br>X  |  |  |  |  |
| <ul> <li>5) APPLICATION:<br/>RoHS COMPL</li> <li>6) PRINT: (WHITE INK<br/>QUABBIN DAT<br/>PER CHART 1</li> <li>7) COLOR CODE:<br/>1. BLUE X WH<br/>2. ORANGE X<br/>3. GREEN X W<br/>4. BROWN X V</li> <li>8) PACKAGING:</li> </ul>                        | IANT MATERIALS<br>CON BLACK JACKET, ALL OTH<br>TAMAX EXTREME DURABLE I<br>I) RoHS <b>(LOT DESIGNATO</b><br>HITE/BLUE<br>WHITE/ORANGE<br>WHITE/GREEN<br>WHITE/BROWN | DRAIN<br>BRAID<br>BINDER   | N BLU<br>SRN WHT/BLU<br>N ORG   |  |  |  |  |
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| <ul> <li>5) APPLICATION:<br/>RoHS COMPL</li> <li>6) PRINT: (WHITE INK<br/>QUABBIN DAT<br/><b>PER CHART</b> 1</li> <li>7) COLOR CODE:<br/>1. BLUE X WH<br/>2. ORANGE X<br/>3. GREEN X W<br/>4. BROWN X W</li> <li>8) PACKAGING:<br/>TO BE PACKA</li> </ul> | IANT MATERIALS<br>CON BLACK JACKET, ALL OTH<br>TAMAX EXTREME DURABLE I<br>I) RoHS <b>(LOT DESIGNATO</b><br>HITE/BLUE<br>WHITE/ORANGE<br>WHITE/GREEN<br>WHITE/BROWN | DRAIN<br>BRAID<br>BINDER<br>PAIR<br>JACKET   | N BLU<br>SRN WHT/BLU<br>N ORG<br>SRN WHT/ORG<br>WHT/ORG   |  |  |  |  |
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| <ul> <li>5) APPLICATION:<br/>RoHS COMPL</li> <li>6) PRINT: (WHITE INK<br/>QUABBIN DAT<br/><b>PER CHART</b> 1</li> <li>7) COLOR CODE:<br/>1. BLUE X WH<br/>2. ORANGE X<br/>3. GREEN X W<br/>4. BROWN X W</li> <li>8) PACKAGING:<br/>TO BE PACKA</li> </ul> | IANT MATERIALS<br>CON BLACK JACKET, ALL OTH<br>TAMAX EXTREME DURABLE I<br>I) RoHS <b>(LOT DESIGNATO</b><br>HITE/BLUE<br>WHITE/ORANGE<br>WHITE/GREEN<br>WHITE/BROWN | DRAIN<br>BRAID<br>BINDER<br>PAIR<br>JACKET<br>Created<br>I2/19/13 DRAWN: 12<br>REV. 01 CHECKED: 12<br>TITLE  | N BLU<br>X<br>BRN WHT/BLU<br>N ORG<br>X<br>SRN WHT/ORG<br>WHT/ORG<br>WHT/ORG<br>X<br>SRN WHT/ORG<br>WHT/ORG<br>X<br>SRN WHT/ORG<br>X<br>SRN WHT/ORG<br>X<br>SRN WHT/BLU<br>X<br>SRN WHT/SR S<br>SRN WHT/SR S<br>SR S<br>SRN WHT/SR S<br>SR S<br>SR S<br>SR S<br>SR S<br>S<br>SR S<br>S<br>SR S<br>S<br>SR S<br>S<br>SR S<br>S<br>SR S<br>S<br>S<br>S  |  |  |  |  |
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| 3) ELEC | TRICAL CHARACTERISTICS: (FOR 100m OF 0        | CABLE)                                 |   |                |  |  |  |
|---------|---|--|---|----------------|--|--|--|
| , í     | CAPACITANCE, MUTUAL, NOM.                     | 13.5 PF/FT. AT                         | 1 MHZ                                       | QWC0069        |  |  |  |
|         | DIELECTRIC WITHSTANDING, MIN.                 | 1500V RMS                              |   | $\overline{O}$ |  |  |  |
|         | VOLTAGE RATING, MAX.<br>D.C. RESISTANCE, MAX. | 300V<br>42.6 Ω/1000'                   |   |                |  |  |  |
|         | IMPEDANCE,                                    | 100+/- 15 Ω 1-1                        | 100 MHZ                                     | 60             |  |  |  |
|         | IMPEDANCE, SMOOTHED                           | $100 + -10 \Omega$ TYPICAL 5 - 100 MHZ |   |                |  |  |  |
|         | SRL   | 23 DB 1-20 MHZ                         |   |                |  |  |  |
|         |   | 23 - 10 LOG(F/                         | 20) 20-100 MHZ                              |                |  |  |  |
|         | RETURN LOSS                                   | 1 - 10 MHZ                             | 20 + 5 LOG (F) DB MIN                       |                |  |  |  |
|         |   | 10 - 20 MHZ                            | 25 DB MIN                                   |                |  |  |  |
|         |   | 20 - 100 MHZ                           | 25- 8.6 LOG(F/20) DB MIN                    |                |  |  |  |
|         | PS NEXT                                       | 1-100 MHZ                              | 64 - 15 LOG (F/.772) MIN                    |                |  |  |  |
|         | NEXT  | 1-100 MHZ                              | 67 - 15 LOG (F/.772) MIN                    |                |  |  |  |
|         | PS ELFEXT                                     | 1-100 MHZ 63 - 20 LOG(F/.772) MIN      |   |                |  |  |  |
|         | ELFEXT  | 1-100 MHZ                              | 66 - 20 LOG(F/.772) MIN                     |                |  |  |  |
|         |   |  |   |                |  |  |  |
|         | ATTENUATION                                   | 1-100 MHZ                              | 1.5[1.967 SQRT(F) +.023(F) +.05/SQRT(F)]MAX |                |  |  |  |
|         | DELAY   | 1-100 MHZ                              | 534 + 36/SQRT(F)                            |                |  |  |  |
|         | DELAY SKEW                                    | 1-100 MHZ                              | <25NS                                       |                |  |  |  |
|         | LCL   | 1-100 MHZ                              | -38dB MIN                                   |                |  |  |  |
|         | VELOCITY OF PROPAGATION                       | 68%                                    |   |                |  |  |  |
|         |   |  |   |                |  |  |  |
|         |   |  |   |                |  |  |  |
|         | NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.  |  |   |                |  |  |  |
|         |   |  |   |                |  |  |  |
|         |   |  |   |                |  |  |  |
|         |   |  |   |                |  |  |  |
|         |   |  |   |                |  |  |  |
|         |   |  |   |                |  |  |  |
|         |   |  |   |                |  |  |  |

| CUSTOMER APPROVAL: | DATE: | DATAMAX EXTREME DURABLE INDUSTRIAL<br>ETHERNET PATCH CABLE – 4 PR SCREENED |         |        |
|--------------------|-------|--|---------|--------|
|                    |       | DRAWING #  | QWC0069 | 2 of 2 |