

1) CONSTRUCTION: NOM. DIA.  
 CONDUCTOR: 22 AWG 19/.0058" STRANDED TINNED COPPER .028"  
 INSULATION: HIGH DENSITY POLYETHYLENE, .009" NOM. WALL THICKNESS .047"  
 PAIRS: COLOR CODED SINGLES TWISTED INTO PAIRS .094"  
 CABLE: (2) TWISTED PAIRS TWISTED TOGETHER WITH FILLER AND WRAPPED .183"  
 WITH CLEAR POLYESTER TAPE TO FORM A CABLE CORE.  
 JACKET: POLYURETHANE, (COLOR, PER CHART 1), .024" NOM. WALL THICKNESS  
 (PRESSURE) OVERALL CABLE DIAMETER .235" NOM.  
.245" MAX.

2) PHYSICAL PROPERTIES:  
 TEMPERATURE RATING, MAX. 75°C  
 TEMPERATURE RATING, MIN. -40°C  
 WT./M', NOM., NET. 23.8 LBS.  
 UV RESISTANT JACKET  
 FLEX LIFE 1 MILLION CYCLE TEST (10X CABLE O.D., MINIMUM RADIUS)  
 10 MILLION CYCLE TEST (20X CABLE O.D., MINIMUM RADIUS)

CHART 1:

| QUABBIN P/N | JACKET COLOR |
|-------------|--------------|
| 5020        | BLACK        |
| 5021        | BLUE         |
| 5022        | TEAL         |

3) ELECTRICAL CHARACTERISTICS:  
 SEE PAGE 2

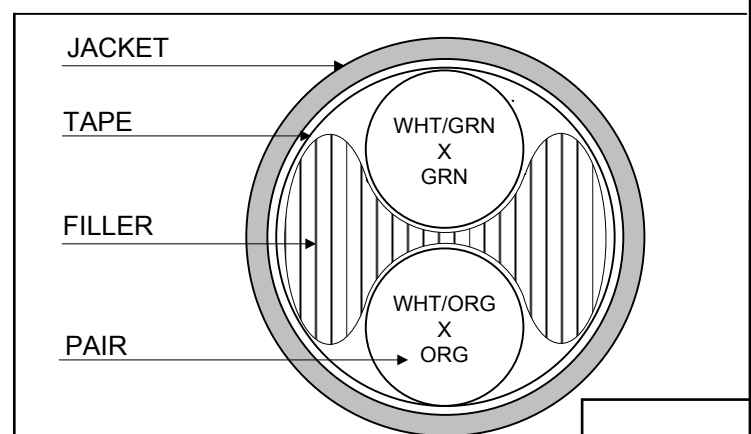
4) AGENCY APPROVALS:  
 EU CE MARK: MEETS EU DIRECTIVE 2011/65/EU (RoHS II).

5) APPLICATION:  
 FOR APPLICATIONS REQUIRING A RUGGED PATCH CORD ASSEMBLY.

6) PRINT:  
 QUABBIN DATAMAX EXTREME HIGH FLEX INDUSTRIAL ETHERNET PATCH CORD P/N (QWC P/N PER CHART 1)  
 -- CE RoHS -- (LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)

7) COLOR CODE:  
 1. WHITE/GREEN X GREEN  
 2. WHITE/ORANGE X ORANGE

8) PUT UPS  
 AVAILABLE IN STANDARD 1000 FT REELS  
 OR IN LONGER BULK PUTUPS



|   |                         |        |
|---|-------------------------|--------|
| Created<br>11/06/18   | DRAWN: SGH<br>11/06/18  |        |
| REV. 01   | CHECKED: JFR<br>11/7/18 |        |
| TITLE<br>DATAMAX EXTREME HIGH FLEX INDUSTRIAL<br>ETHERNET PATCH CABLE -- 2 PR |                         |        |
| DRAWING #   |                         | 1 of 2 |


CUSTOMER APPROVAL: \_\_\_\_\_ DATE: \_\_\_\_\_

3) ELECTRICAL CHARACTERISTICS: (FOR 100m OF CABLE)

|                               |  |  |
|-------------------------------|--|--|
| CAPACITANCE, MUTUAL, NOM.     | 13.5 PF/FT. AT 1 MHz                             |  |
| DIELECTRIC WITHSTANDING, MIN. | 1500V RMS  |  |
| VOLTAGE RATING, MAX.          | 300V   |  |
| D.C. RESISTANCE, MAX.         | 5.22 Ω/100m                                      |  |
| IMPEDANCE                     | 100 ± 15 Ω 1 - 100 MHz; 100 ± 20 Ω 100 - 350 MHz |  |
| RETURN LOSS                   | 1 ≤ f < 10 MHz                                   | 20 + 5 LOG(f) dB MIN                       |
|                               | 10 ≤ f < 20 MHz                                  | 25 dB MIN                                  |
|                               | 20 ≤ f ≤ 100 MHz                                 | 25 - 8.6 LOG(f/20) dB MIN                  |
| NEXT                          | 1 ≤ f ≤ 100 MHz                                  | 35.3 - 15 LOG(f/100) dB MIN                |
| ACRF                          | 1 ≤ f ≤ 100 MHz                                  | 23.8 - 20 LOG(f/100) dB MIN                |
| INSERTION LOSS*               | 1 ≤ f ≤ 100 MHz                                  | 1.3[1.967 √f + 0.023(f) + 0.050/√f] dB MAX |
| DELAY                         | 1 ≤ f ≤ 100 MHz                                  | 534 + 36/√f ns MAX                         |
| DELAY SKEW                    | 1 ≤ f ≤ 100 MHz                                  | <25 ns                                     |
| LCL                           | 1 ≤ f ≤ 100 MHz                                  | -38 dB MIN                                 |

\*INSERTION LOSS IS GREATER THAN TIA SPEC DUE TO JACKET MATERIAL. WILL MEET CAT 5e CHANNEL REQUIREMENTS AT 83 METER LENGTH.

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.

|   |                         |   |
|---|-------------------------|---|
| Created<br>11/06/18   | DRAWN: 11/06/18<br>SGH  |  |
| REV. 01   | CHECKED: 11/7/18<br>JER |   |
| TITLE<br>DATAMAX EXTREME HIGH FLEX INDUSTRIAL<br>ETHERNET PATCH CABLE -- 2 PR |                         |   |
| DRAWING #   |                         | 2 of 2  |

CUSTOMER APPROVAL:

DATE: