| 1) CON | STRUCTION: CONDUCTOR: INSULATION: PAIRS: CABLE: SHIELDS: | HIGH DENSITY POLYETHYLENE, .00 COLOR CODED SINGLES TWISTED (4) TWISTED PAIRS TWISTED TOGE WRAPPED WITH A FOAM POLYPRO AN OVERALL SHIELD OF 38 AWG T | 9" NOM. WALL THICKNESS NTO PAIRS THER WITH A CENTRAL SPLINE AND PYLENE TAPE TO FORM A CABLE CORE. NNED COPPER BRAID (80% MINIMUM ER THE CABLE CORE. AN ALUMINIZED | | NOM. DIA. .019" .036" .072" .176" | 5919 | | |
|---|--|---|--|---|---|--------|--|--|
| | JACKET: | THE BRAID SHIELD. POLYURETHANE, BLACK, .022" NON | A. WALL THICKNES | | .195" .239" NOM. (± . | | | |
| 2) PHY | SICAL PROPERT TEMPERATURE TEMPERATURE WT./M', NOM., N JACKET IS UV F | E RATING, MAX. E RATING, MIN. IET. | 75°C -40°C 33.0 LBS. | | (BY CALIPER) | | | |
| 3) ELECTRICAL CHARACTERISTICS: SEE PAGE 2 | | | | | | | | |
| 4) AGENCY APPROVALS: EU CE MARK: MEETS EU DIRECTIVE 2011/65/EU (RoHS II) | | | | | | | | |
| 5) APPLICATION: SHIELDED FLEXIBLE PATCH/JUMPER CABLE TO SUPPORT SCREENED 568.2-D CATEGORY 6 AND 6a APPLICATIONS. RoHS COMPLIANT MATERIALS MEET EU DIRECTIVE 2002/95/EC, EU DIRECTIVE 2011/65/EU, AND EU DIRECTIVE 2015/863/EU. PATENT NO. US 8,487,184 B2. | | | | | | | | |
| 6) PRINT: (WHITE INK) QUABBIN DATAMAX EXTREME HIGH FLEX INDUSTRIAL ETHERNET/IP PATCH CORD CAT 6/6a SF/UTP P/N 5919 4PR 26 AWG PATENT NO. US 8,487,184 B2 CE 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) PAC | KAGING: TO BE PACKAG STANDARD PA | ED AS PER QWC'S CKAGING | | | | | | |
| | | | JACKET | | | | | |
| | | | SHIELD | WHT/BRN | WHT/BLU | | | |
| | | | BRAID SPLINE | BRN | BLU A | | | |
| | | | | WHT/GRN | WHT/ORG | | | |
| | | | | | | | | |
| | | | FOAM TAPE | | | | | |
| | | | | Created 06/05/13 DRAWN: 01/05/23 | | | | |
| | | | | REV. 08 CHECKED: 1/9/23 | | | | |
| CUSTO | MER APPROVAL: | | DATE: | 4PR. SF/UTP HIGH FLEX I ETHERNET/IP PATCH CO | - | Y 6/6a | | |
| | | | | QUABBIN P/N 591 | 9 | 1 of 2 | | |

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| | S WHEN INSTALLED PER RECOM INEL REQUIREMENTS TO 70 MET 13.5 PF/FT. AT 1 MH IN. 1500V RMS 300V 42.6 Ω/1,000' | FER LENGTH | 5919 | | |
|----------------------------|--|---|-----------|--|--|
| | | | | | |
| | NOTE: TESTING FOR THE FOLLOWING IS CONDUCTED OFF THE REEL. (FOR 100m OF CABLE) | | | | |
| IMPEDANCE, NOM. | 100 ± 15 Ω 1 - 100 M 100 ± 20 Ω 100 - 500 | | | | |
| RETURN LOSS | $1 \le f < 10 \text{ MHz}$ $10 \le f < 20 \text{ MHz}$ $20 \le f \le 100 \text{ MHz}$ $100 < f \le 500 \text{ MHz}$ | 20 + 6 LOG(<i>f</i>) dB MIN* 26 dB MIN* 26 – 5 LOG(<i>f</i> /20) dB MIN* 25 – 8.6 LOG(<i>f</i> /20) dB MIN | | | |
| PSNEXT | $1 \le f \le 500 \text{ MHz}$ | 42.3 - 15 LOG (<i>f</i> /100) dB MIN | | | |
| NEXT | $1 \le f \le 500 \text{ MHz}$ | 44.3 - 15 LOG (<i>f</i> /100) dB MIN | | | |
| PS ACRF | $1 \le f \le 500 \text{ MHz}$ | 24.8 - 20 LOG(<i>f</i> /100) dB MIN | | | |
| ACRF | $1 \le f \le 500 \text{ MHz}$ | 27.8 - 20 LOG(<i>f</i> /100) dB MIN | | | |
| INSERTION LOSS | $1 \le f \le 500 \text{ MHz}$ | 1.5[1.82 \sqrt{f} + 0.0091(f) + 0.25/ \sqrt{f}] dB MAX | | | |
| DELAY | $1 \le f \le 500 \text{ MHz}$ | 534 + 36/SQRT(<i>f</i>) ns MAX | | | |
| DELAY SKEW | $1 \le f \le 500 \text{ MHz}$ | <45 ns | | | |
| TCL | $1 \le f \le 500 \text{ MHz}$ | 30 - 10 LOG(<i>f</i> /100) dB MIN | | | |
| ELTCTL | $1 \le f \le 30 \text{ MHz}$ | 35 - 20 LOG(f) dB MIN | | | |
| PSANEXT LOSS (6 AROUND 1) | $1 \le f < 50 \text{ MHz}$ $50 \le f \le 500 \text{ MHz}$ | 67 dB MIN 62.5 - 15 LOG (<i>f</i> /100) dB MIN | | | |
| PSAFEXT (6 AROUND 1) | $1 \le f \le 500 \text{ MHz}$ | 38.2 - 20 LOG(<i>f</i> /100) dB MIN | | | |
| VELOCITY OF PROPAGATION | 68% | | | | |
| *PER ODVA VOLUME 2 ETHERNE | ET/IP | | | | |
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| | | REV. 08 CHECKED: 1/9/23 | | | |
| CUSTOMER APPROVAL: | DATE: | 4PR. SF/UTP HIGH FLEX INDUSTRIA | | | |
| | | ETHERNET/IP PATCH CORD CATE | GORY 6/6a | | |

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