1) CONSTRUCTION: NOM. DIA. CONDUCTOR: 26 AWG 7/34 STRANDED TINNED COPPER .019"

INSULATION: HIGH DENSITY POLYETHYLENE, .009" NOM. WALL THICKNESS .036" PAIRS: COLOR CODED SINGLES TWISTED INTO PAIRS .072"

CABLE: (4) TWISTED PAIRS TWISTED TOGETHER WITH A CENTRAL SPLINE AND

WRAPPED WITH A FOAM POLYPROPYLENE TAPE TO FORM A CABLE CORE. .176" SHIELDS: AN OVERALL SHIELD OF 38 AWG TINNED COPPER BRAID (80% MINIMUM

COVERAGE) SHALL BE APPLIED OVER THE CABLE CORE. AN ALUMINIZED

POLYESTER FOIL SHIELD (FOIL IN, 100% COVERAGE) SHALL BE APPLIED OVER THE BRAID SHIELD.

THERMOPLASTIC ELASTOMER, BLACK, .040" NOM. WALL THICKNESS JACKET:

OVERALL CABLE DIAMETER .275" NOM. (± .010")

(BY PI TAPE)

.195"

PS1579

2) PHYSICAL PROPERTIES:

75°C TEMPERATURE RATING, MAX. TEMPERATURE RATING, MIN. -20°C WT./M', NOM., NET. 40.6 LBS.

JACKET IS WELD SPATTER RESISTANT JACKET IS SUNLIGHT RESISTANT

FLEX LIFE (PENDING)

(126 CYCLES/MIN, @ 20°C) 1 MILLION CYCLE TEST (10X CABLE O.D., MINIMUM RADIUS) 10 MILLION CYCLE TEST (20X CABLE O.D., MINIMUM RADIUS)

TORSION TEST (PENDING)

(1 LB LOAD, 360°, 71 CYCLES/MIN, @ 20°C) 3 MILLION CYCLE TEST

JACKET CUTTING/MACHINING OIL RESISTANCE

(6 MONTHS @ 20°C)

TENSILE STRENGTH RETENTION, NOM. 80% ELONGATION RETENTION, NOM. 100%

POE COMPLIANT (802.3af) TO 64 METERS WHEN INSTALLED PER RECOMMENDATIONS IN TIA TSB-184

CABLE WILL MEET CAT 6a CHANNEL REQUIREMENTS TO 64 METER LENGTH

3) ELECTRICAL CHARACTERISTICS:

SEE PAGE 2

4) AGENCY APPROVALS:

NEC (UL) TYPE CMX OUTDOOR - CM CEC C(UL) TYPE CMX OUTDOOR - CM

5) APPLICATION:

SHIELDED FLEXIBLE PATCH/JUMPER CABLE TO SUPPORT SCREENED 568-C.2 CATEGORY 6 AND 6a APPLICATIONS. RoHS COMPLIANT MATERIALS.

6) PRINT: (WHITE INK)

Intercon 1 90620 InfiniFlex - CAT 6a - RUGGED -- E118830 C(UL)US TYPE CMX OUTDOOR - CM 4PR 26 AWG 75C SUN RES --RoHS -- (LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)

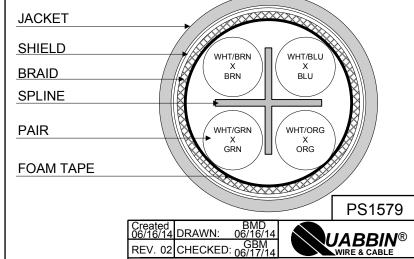
7) COLOR CODE:

1. BLUE X WHITE/BLUE

- 2. ORANGE X WHITE/ORANGE
- 3. GREEN X WHITE/GREEN
- 4. BROWN X WHITE/BROWN

8) PACKAGING:

TO BE PACKAGED AS PER QWC'S STANDARD PACKAGING



TITLE

4PR. SF/UTP HIGH FLEX INDUSTRIAL ETHERNET/IP PATCH CORD -- CATEGORY 6/6a

PRELIMINARY SPECIFICATION IS FOR DESIGN REVIEW PURPOSES ONLY. A PRODUCT SPECIFICATION WITH A QWC PERMANENT PART NUMBER WILL BE PROVIDED FOR CUSTOMER SIGNATURE BEFORE AN ORDER WILL BE ACCEPTED.

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

CAPACITANCE, MUTUAL 13.5 PF/FT. AT 1 MHZ

 $\begin{array}{lll} \text{DIELECTRIC WITHSTANDING, MIN} & 1500 \text{V RMS} \\ \text{VOLTAGE RATING, MAX.} & 300 \text{V} \\ \text{D.C. RESISTANCE, MAX.} & 14.0 \ \Omega \end{array}$

IMPEDANCE, NOM. $100 \pm 15 \Omega 1 - 100 \text{ MHz}$

 $100 \pm 20 \Omega 100 - 500 MHz$

RETURN LOSS 1-10 MHz 20 + 6 LOG(F) dB MIN*

10-20 MHz 26 dB MIN*

20-100 MHz 26 - 5 LOG(F/20) dB MIN*

PS NEXT $1 \le f \le 500 \text{ MHz}$ 42.3 - 15 LOG (F/100) dB MIN

NEXT $1 \le f \le 500 \text{ MHz}$ 44.3 - 15 LOG (F/100) dB MIN

PS ACRF $1 \le f \le 500 \text{ MHz}$ 24.8 - 20 LOG(F/100) dB MIN

ACRF $1 \le f \le 500 \text{ MHz}$ 27.8 - 20 LOG(F/100) dB MIN

ATTENUATION $1 \le f \le 500 \text{ MHz}$ 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(F) ns MAX

DELAY SKEW $1 \le f \le 500 \text{ MHz}$ <25ns

PS ANEXT LOSS (6 AROUND 1) $1 \le f \le 500 \text{ MHz}$ 62.5 - 15 LOG(F/100) dB 50 - 500 MHz

67 dB 1 - 50 MHz

PS AFEXT (6 AROUND 1) $1 \le f \le 500 \text{ MHz}$ 38.2 - 20 LOG(F/100) dB

COUPLING ATTENUATION $30 \le f \le 250 \text{ MHz}$ 100 - 20 LOG(F) dB MIN (MAX 60 dB) E3*

TESTED PER IEC 62153-4-9 Segregation class d acc. EN 50174-2

VELOCITY OF PROPAGATION 68%

*PER ODVA VOLUME 2 ETHERNET/IP

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.

PS1579

Created BMD 06/16/14 DRAWN: 06/16/14 REV. 02 CHECKED: 06/17/14

UABBIN® WIRE & CABLE

TITLE

4PR. SF/UTP HIGH FLEX INDUSTRIAL ETHERNET/IP PATCH CORD -- CATEGORY 6/6a

2 of 2

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