

1) CONSTRUCTION:

CONDUCTOR:	26 AWG 7/34 STRANDED TINNED COPPER	NOM. DIA.	.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.		.195"
JACKET:	POLYURETHANE, BLACK, .022" NOM. WALL THICKNESS (PRESSURE)	OVERALL CABLE DIAMETER	.239" NOM. (± .010")

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	75°C
TEMPERATURE RATING, MIN.	-40°C
WT./M', NOM., NET.	33.0 LBS.

JACKET IS UV RESISTANT

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

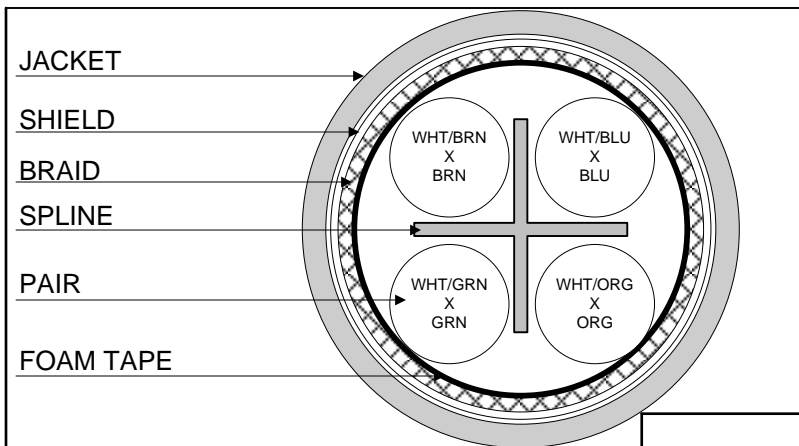
4) AGENCY APPROVALS:

5) APPLICATION:
SHIELDED FLEXIBLE PATCH/JUMPER CABLE TO SUPPORT SCREENED 568.2-D CATEGORY 6 AND 6a APPLICATIONS. RoHS COMPLIANT MATERIALS. U.S. 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 -- U.S. 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) PACKAGING:
TO BE PACKAGED AS PER QWC'S STANDARD PACKAGING



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REV. 06	CHECKED: ZRS 04/26/19



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

QUABBIN P/N	5919	1 of 2
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CUSTOMER APPROVAL:

DATE:

3) ELECTRICAL CHARACTERISTICS:

POE COMPLIANT TO 70 METERS WHEN INSTALLED PER RECOMMENDATIONS IN TIA TSB-184
 CABLE WILL MEET CAT 5e CHANNEL REQUIREMENTS TO 70 METER LENGTH
 CAPACITANCE, MUTUAL, NOM. 13.5 PF/FT. AT 1 MHz
 DIELECTRIC WITHSTANDING, MIN. 1500V RMS
 VOLTAGE RATING, MAX. 300V
 D.C. RESISTANCE, MAX. 42.6 Ω /1,000'


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

IMPEDANCE, NOM.	100 \pm 15 Ω 1 - 100 MHz 100 \pm 20 Ω 100 - 500 MHz
RETURN LOSS	$1 \leq f < 10$ MHz 20 + 6 LOG(f) dB MIN* $10 \leq f < 20$ MHz 26 dB MIN* $20 \leq f \leq 100$ MHz 26 - 5 LOG($f/20$) dB MIN* $100 < f \leq 500$ MHz 25 - 8.6 LOG($f/20$) dB MIN
PSNEXT	$1 \leq f \leq 500$ MHz 42.3 - 15 LOG ($f/100$) dB MIN
NEXT	$1 \leq f \leq 500$ MHz 44.3 - 15 LOG ($f/100$) dB MIN
PS ACRF	$1 \leq f \leq 500$ 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 1.5[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
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
PSANEXT LOSS (6 AROUND 1)	$1 \leq f < 50$ MHz 67 dB MIN $50 \leq f \leq 500$ MHz 62.5 - 15 LOG ($f/100$) dB MIN
PSAFEXT (6 AROUND 1)	$1 \leq f \leq 500$ MHz 38.2 - 20 LOG($f/100$) dB MIN
VELOCITY OF PROPAGATION	68%

*PER ODVA VOLUME 2 ETHERNET/IP

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