

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") (BY PI TAPE)

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	75°C
TEMPERATURE RATING, MIN.	-40°C
WT./M', NOM., NET.	32.6 LBS.
JACKET IS UV RESISTANT	

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

4) AGENCY APPROVALS:

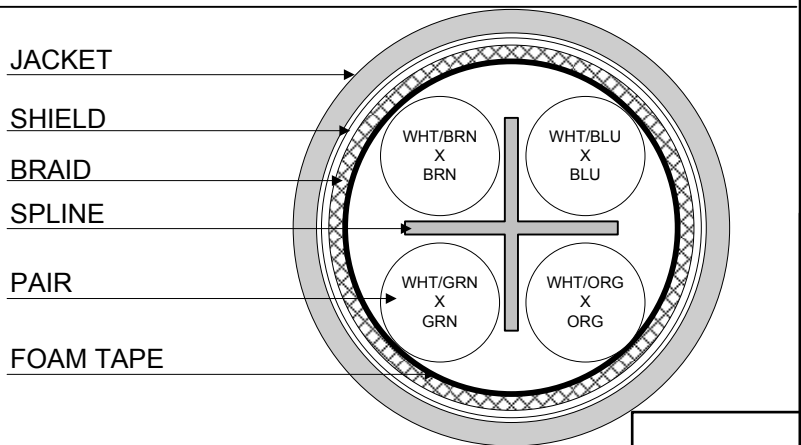
5) APPLICATION:
RoHS COMPLIANT MATERIALS.

6) PRINT: (WHITE INK)
QUABBIN DATAMAX EXTREME HIGH FLEX INDUSTRIAL ETHERNET/IP PATCH CORD CAT 6a SF/UTP P/N 5919 4PR 26 AWG -- 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



Created 06/05/13	DRAWN: BMD 07/09/13
REV. 02	CHECKED: GBM 07/10/13



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

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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.	14.0 Ω	
IMPEDANCE, NOM.	100 \pm 15 Ω 1 - 100 MHz	
	100 \pm 20 Ω 100 - 500 MHz	
RETURN LOSS	1 $\leq f <$ 10 MHz	20 + 5 LOG(f) dB MIN
	10 $\leq f <$ 20 MHz	25 dB MIN
	20 $\leq f \leq$ 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	<25 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%	

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.

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