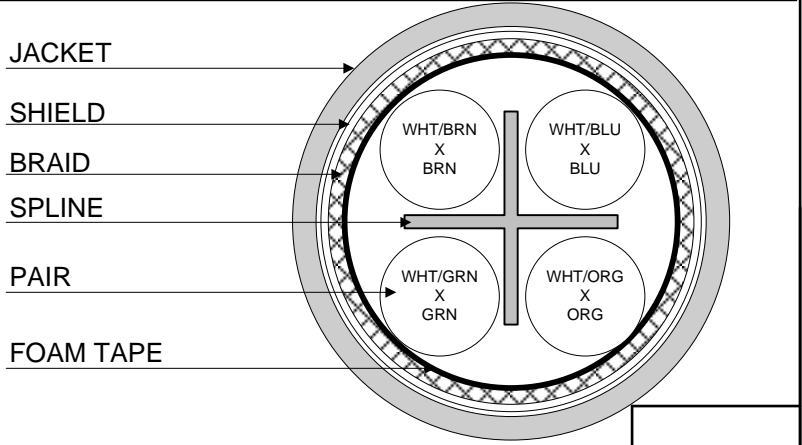


- 1) CONSTRUCTION:
- | | | | |
|-------------|---|------------------------|----------------------|
| CONDUCTOR: | 26 AWG 7/34 STRANDED TINNED COPPER | NOM. DIA. | .019" |
| INSULATION: | HIGH DENSITY POLYETHYLENE, .009" NOM. WALL THICKNESS | | .036" |
| PAIRS: | COLOR CODED SINGLES TWISTED INTO PAIRS | | .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. | 32.6 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-C.2 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 -- 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 02/18/16	
REV. 05	CHECKED: GBM 02/18/16	
TITLE 4PR. SF/UTP HIGH FLEX INDUSTRIAL ETHERNET PATCH CORD -- CATEGORY 6/6a		
QUABBIN P/N	5919	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.	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	<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%	

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.

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REV. 05	CHECKED: GBM 02/18/16	
TITLE 4PR. SF/UTP HIGH FLEX INDUSTRIAL ETHERNET PATCH CORD -- CATEGORY 6a		
QUABBIN P/N	5919	2 of 2

CUSTOMER APPROVAL:

DATE: