

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.	.195"
JACKET:	THERMOPLASTIC ELASTOMER, TEAL, .040" NOM. WALL THICKNESS	
	OVERALL CABLE DIAMETER	.275" NOM. (± .010")

2) PHYSICAL PROPERTIES:	
TEMPERATURE RATING, MAX.	75°C
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%

3) ELECTRICAL CHARACTERISTICS:  
SEE PAGE 2

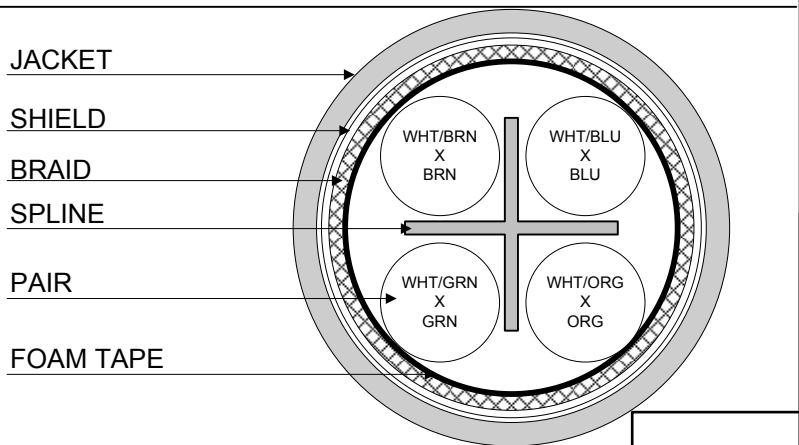
4) AGENCY APPROVALS:  
NONE

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

6) PRINT: (NO PRINT)

- 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 10/07/14	DRAWN: BMD 10/07/14	
REV. 01	CHECKED: GBM 10/07/14	
TITLE 4PR. SF/UTP HIGH FLEX INDUSTRIAL ETHERNET PATCH CORD -- CATEGORY 6/6a		
QUABBIN P/N	08916	1 of 2

CUSTOMER APPROVAL:


DATE:

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

CAPACITANCE, MUTUAL	13.5 PF/FT. AT 1 MHZ	
DIELECTRIC WITHSTANDING, MIN	1500V RMS	
VOLTAGE RATING, MAX.	300V	
D.C. RESISTANCE, MAX.	14.0 $\Omega$	
IMPEDANCE, NOM.	100 $\pm$ 15 $\Omega$ 1 - 100 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 $\leq$ 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	<45ns
PS ANEXT LOSS (6 AROUND 1)	1 $\leq$ f $\leq$ 500 MHZ	62.5 - 15 LOG(f/100) dB 50 - 500 MHZ 67 dB 1 - 50 MHZ
PS AFEXT (6 AROUND 1)	1 $\leq$ f $\leq$ 500 MHZ	38.2 - 20 LOG(f/100) dB
COUPLING ATTENUATION TESTED PER IEC 62153-4-9	30 $\leq$ f $\leq$ 250 MHZ	100 - 20 LOG(f) dB MIN (MAX 60 dB) E3* 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.

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QUABBIN P/N	08916	2 of 2

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