

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.		-40°C (MANUFACTURER'S RECOMMENDED)
WT./M', NOM., NET.		40.1 LBS.
JACKET IS WELD SPATTER RESISTANT		
JACKET IS SUNLIGHT RESISTANT		
FLEX LIFE		
(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		
(1 LB LOAD, 360°, 71 CYCLES/MIN, @ 20°C)		3 MILLION CYCLE TEST
JACKET CUTTING/MACHINING OIL RESISTANCE (PER QUABBIN TEST REPORT #TR 08-0001)		
(6 MONTHS @ 20°C)		
TENSILE STRENGTH RETENTION, NOM.		80%
ELONGATION RETENTION, NOM.		100%

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

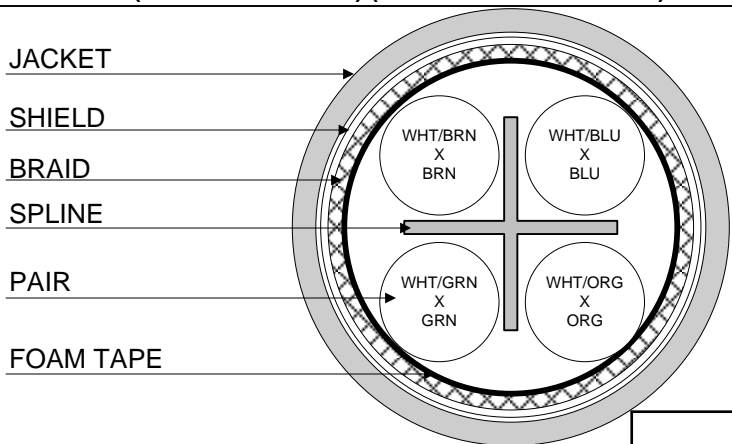
4) AGENCY APPROVALS:
NEC (UL) TYPE CMX OUTDOOR - CM
CEC C(UL) TYPE CMX OUTDOOR - CM
EU CE MARK: MEETS EU DIRECTIVE 2011/65/EU (RoHS II).

5) APPLICATION:
SHIELDED FLEXIBLE PATCH/JUMPER CABLE TO SUPPORT SCREENED 568.2-D CATEGORY 6 AND 6a APPLICATIONS.

6) PRINT:
QUABBIN DATAMAX EXTREME HIGH FLEX INDUSTRIAL ETHERNET/IP PATCH CORD CAT 6/6a SF/UTP P/N 5026 -- C(UL)US TYPE CMX OUTDOOR - CM 4PR 26 AWG 75C SUN RES -- 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



Created 2/4/13	DRAWN: SGH 04/11/19
REV. 07	CHECKED: ZRS 04/12/19



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

CUSTOMER APPROVAL:

DATE:

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3) ELECTRICAL CHARACTERISTICS:

POE COMPLIANT TO 70 METERS WHEN INSTALLED PER RECOMMENDATIONS IN TIA TSB-184
 CABLE WILL MEET CAT 6a 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 $< f \leq$ 250 MHz 25 - 8.6 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	4 $\leq f \leq$ 500 MHz 534 + 36/ \sqrt{f} ns MAX**	
DELAY SKEW	1 $\leq f \leq$ 500 MHz <45 ns	
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) (MAX 60 dB) E3 * Segregation class d acc. EN 50174-2	
VELOCITY OF PROPAGATION	68%	

*PER ODVA VOLUME 2 ETHERNET/IP

**PER IEC 61156-6

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