

1) CONSTRUCTION:		NOM. DIA.
CONDUCTOR:	26 AWG 7/34 STRANDED TINNED COPPER	.019"
INSULATION:	HIGH DENSITY POLYETHYLENE, .009" NOM. WALL THICKNESS	.037"
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS	.074"
CABLE:	(4) TWISTED PAIRS TWISTED TOGETHER AND WRAPPED WITH A FOAM POLYPROPYLENE TAPE TO FORM A CABLE CORE.	.143"
SHIELDS:	AN OVERALL SHIELD OF 38 AWG TINNED COPPER BRAID (75% MINIMUM COVERAGE), SHALL BE APPLIED OVER THE CABLE CORE. A SECOND SHIELD OF ALUMINIZED POLYESTER FOIL (FOIL IN, 100% COVERAGE) SHALL BE APPLIED OVER THE BRAID.	.174"
JACKET:	THERMOPLASTIC ELASTOMER, (COLOR, PER CHART 1), .037" NOM. WALL THICKNESS (PRESSURE)	OVERALL CABLE DIAMETER .244" ± .005" BY PI TAPE

2) PHYSICAL PROPERTIES:	
TEMPERATURE RATING, MAX.	75°C (JACKET 105°C, 75°C OIL)
TEMPERATURE RATING, MIN.	-20°C (PER UL 444 COLD BEND)
TEMPERATURE RATING, MIN.	-40°C (MANUFACTURER'S RECOMMENDED)
WT./M', NOM., NET.	34.9 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%
POE COMPLIANT (802.3af) TO 67 METERS WHEN INSTALLED PER RECOMMENDATIONS IN TIA TSB-184	
CABLE WILL MEET CAT 5e CHANNEL REQUIREMENTS TO 67 METER LENGTH	

CHART 1:

QUABBIN P/N	JACKET COLOR
5083	BLACK
5084	VIOLET
5088	TEAL

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

4) AGENCY APPROVALS:

NEC (UL) TYPE CMX OUTDOOR - CM
CEC C(UL) TYPE CMX OUTDOOR - CM

5) APPLICATION:
RoHS COMPLIANT MATERIALS. U.S. PATENT NO. US 8,487,184 B2

6) PRINT: (WHITE INK ON BLACK JACKET, ALL OTHERS BLACK INK)
QUABBIN DATAMAX EXTREME HIGH FLEX INDUSTRIAL ETHERNET/IP PATCH CORD CAT 5e SF/UTP P/N (**QWC P/N PER CHART 1**) -- U.S. PATENT NO. US 8,487,184 B2 -- C(UL)US TYPE CMX OUTDOOR - CM 4PR 26 AWG 75C SUN RES -- RoHS -- (**LOT DESIGNATOR**) (**SEQUENTIAL FOOTAGE**)

7) COLOR CODE:

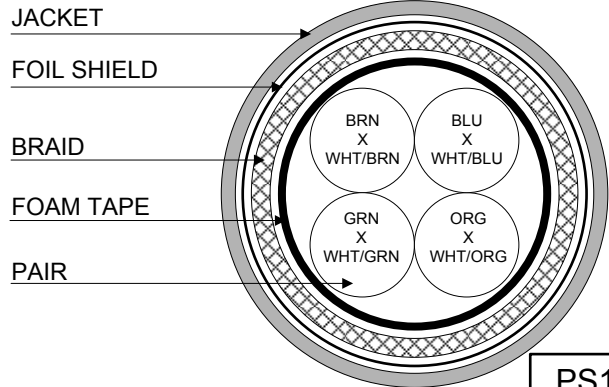
1. BLUE X WHITE/BLUE
2. ORANGE X WHITE/ORANGE
3. GREEN X WHITE/GREEN
4. BROWN X WHITE/BROWN

8) PACKAGING:

TO BE PACKAGED AS PER QWC'S STANDARD PACKAGING

CUSTOMER APPROVAL:

DATE:



PS1426

Created 4/12/11	DRAWN: BMD 02/27/14	
REV. 06	CHECKED: GBM 02/27/14	
TITLE 4PR. SF/UTP HIGH FLEX INDUSTRIAL ETHERNET PATCH CORD -- CAT 5e		
DRAWING #	QWC0026	1 of 2

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 +/- 15 Ω 1-100 MHz

RETURN LOSS	1 - 10 MHz	20 + 6 LOG(<i>f</i>) dB MIN*
	10 - 20 MHz	26 dB MIN*
	20 - 100 MHz	26- 5 LOG(<i>f</i> /20) dB MIN*
NEXT	1 ≤ <i>f</i> ≤ 100 MHz	35.3 - 15 LOG(<i>f</i> /100) dB MIN
PSNEXT	1 ≤ <i>f</i> ≤ 100 MHz	32.3 - 15 LOG(<i>f</i> /100) dB MIN
ACRF	1 ≤ <i>f</i> ≤ 100 MHz	23.8 - 20 LOG(<i>f</i> /100) dB MIN
PSACRF	1 ≤ <i>f</i> ≤ 100 MHz	20.8 - 20 LOG(<i>f</i> /100) dB MIN
INSERTION LOSS	1 ≤ <i>f</i> ≤ 100 MHz	1.5[1.967 √ <i>f</i> + 0.023(<i>f</i>) + 0.050/√ <i>f</i>] dB MAX
DELAY	1 ≤ <i>f</i> ≤ 100 MHz	534 + 36/√ <i>f</i> ns MAX
DELAY SKEW	1 ≤ <i>f</i> ≤ 100 MHz	<25ns
COUPLING ATTENUATION PER IEC 62153-4-9	30 ≤ <i>f</i> ≤ 100 MHz	50 dB MINIMUM
VELOCITY OF PROPAGATION	68%	

*PER ODVA VOLUME 2 ETHERNET/IP

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.

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DRAWING #		QWC0026
		2 of 2

CUSTOMER APPROVAL: _____ DATE: _____