QWC0044

1) CONSTRUCTION:

		NOM. DIA.
CONDUCTOR:	26 AWG 7/34 STRANDED TINNED COPPER	.019"
INSULATION:	HIGH DENSITY POLYETHYLENE, .010" NOM. WALL THICKNESS	.039"
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS	.078"
CABLE:	(4) TWISTED PAIRS TWISTED TOGETHER TO FORM A CABLE CORE WRAPPED WITH A CLEAR POLYESTER BINDER.	.170"
SHIELD:	AN ALUMINIZED POLYESTER FOIL SHIELD (FOIL IN) WITH A 26 AWG TINNED COPPER DRAIN WIRE IN CONTACT WITH METALIZED SURFACE (100% COVERAGE) SHALL BE APPLIED OVER THE CABLE CORE.	.173"
JACKET:	THERMOPLASTIC ELASTOMER, **(COLOR, PER CHART 1)**, .032" NOM. WALL THICKNESS (PRESSURE) OVERALL CABLE DIAMETER	.237" NOM. (± .010") (BY PI TAPE)

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	75°C (JACKET 105°C, 75°C OIL)
TEMPERATURE RATING, MIN.	-40°C
WT./M', NOM., NET.	24.5 LBS.
BEND RADIUS	1.9" STATIC BEND
JACKET IS WELD SPATTER RESISTANT	
JACKET IS SUNLIGHT RESISTANT	PER UL 2556
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%

CHART 1:

QUABBIN P/N	JACKET COLOR
5760	BLACK
5761	BLUE
5762	TEAL
5763	RED

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

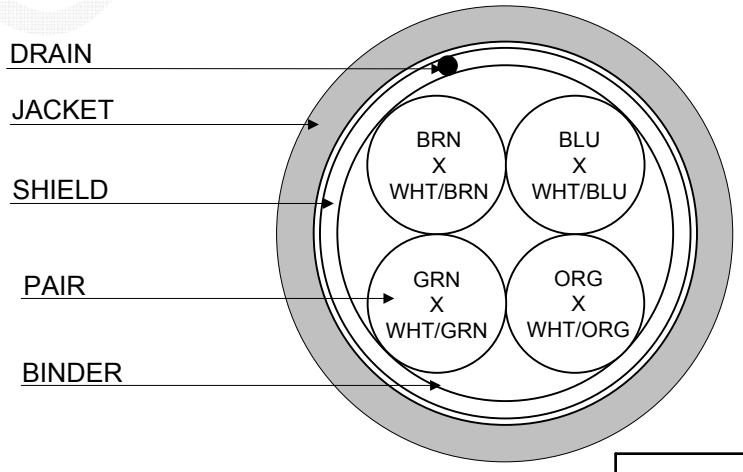
4) AGENCY APPROVALS:
NEC (UL) TYPE CMX OUTDOOR-CM
CEC C(UL) TYPE CMX OUTDOOR-CM
EU CE MARK: MEETS EU DIRECTIVE 2011/65/EU (RoHS II)

5) APPLICATION:
SHIELDED FLEXIBLE PATCH/JUMPER CABLE TO SUPPORT SCREENED ISO 11801 CLASS D AND SCREENED 568.2-D CATEGORY 5e APPLICATIONS.

6) PRINT: (WHITE INK ON BLACK JACKET, ALL OTHERS BLACK INK)
QUABBIN DATAMAX EXTREME DURABLE INDUSTRIAL ETHERNET/IP PATCH CORD CAT 5e F/UTP P/N **(P/N PER CHART 1)** -- 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 9/20/12	DRAWN: SGH 03/22/19	QUABBIN® WIRE & CABLE
REV. 05	CHECKED: ZRS 03/25/19	

TITLE
DATAMAX EXTREME DURABLE INDUSTRIAL ETHERNET/IP PATCH CABLE – 4 PR SCREENED

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CUSTOMER APPROVAL: **DATE:**

3) ELECTRICAL CHARACTERISTICS:

POE COMPLIANT TO 68 METERS WHEN INSTALLED PER RECOMMENDATIONS IN TIA TSB-184
CABLE WILL MEET CAT 5e CHANNEL REQUIREMENTS TO 68 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 ± 15 Ω 1 - 100 MHz	
RETURN LOSS	$1 \le f < 10$ MHz	$20 + 6 \log(f)$ dB MIN*
	$10 \le f < 20$ MHz	26 dB MIN*
	$20 \le f \le 100$ MHz	$26 - 5 \log(f/20)$ dB MIN*
NEXT	$1 \le f \le 100$ MHz	$35.3 - 15 \log(f/100)$ dB MIN
PSNEXT	$1 \le f \le 100$ MHz	$32.3 - 15 \log(f/100)$ dB MIN
ACRF	$1 \le f \le 100$ MHz	$23.8 - 20 \log(f/100)$ dB MIN
PSACRF	$1 \le f \le 100$ MHz	$20.8 - 20 \log(f/100)$ dB MIN
INSERTION LOSS	$1 \le f \le 100$ MHz	$1.5[1.967 \sqrt{f} + 0.023(f) + 0.050/\sqrt{f}]$ dB MAX
DELAY	$1 \le f \le 100$ MHz	$534 + 36/\sqrt{f}$ ns MAX
DELAY SKEW	$1 \le f \le 100$ MHz	<25 ns
COUPLING ATTENUATION	$30 \le f \le 250$ MHz	$100 - 20 \log(f)$ (MAX 60 dB) E3*
VELOCITY OF PROPAGATION	68%	

*PER ODVA VOLUME 2 ETHERNET/IP

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