QWC0042

1) CONSTRUCTION:

		NOM. DIA.
CONDUCTOR:	26 AWG 7/34 STRANDED TINNED COPPER	.019"
INSULATION:	HIGH DENSITY POYETHYLENE, .010" NOM. WALL THICKNESS	.039"
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS	.078"
CABLE:	(4) TWISTED PAIRS TWISTED TOGETHER AND WRAPPED WITH A CLEAR POLYESTER BINDER TO FORM A CABLE CORE	.170"
SHIELD:	AN ALUMINIZED POLYESTER FOIL SHIELD (FOIL IN, 100% COVERAGE) WITH A 26 AWG STRANDED TINNED COPPER DRAIN WIRE IN CONTACT WITH METALIZED SURFACE SHALL BE APPLIED OVER THE CABLE CORE.	.176"
JACKET:	POLYURETHANE, **(COLOR, PER CHART 1)**, .022" NOM. WALL THICKNESS (PRESSURE)	.220" NOM. .227" MAX. (BY PI TAPE)
	OVERALL CABLE DIAMETER	

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	75°C
TEMPERATURE RATING, MIN.	-40°C
WT./M', NOM., NET.	22.7 LBS.

UV RESISTANT JACKET

CHART 1:

QUABBIN P/N	JACKET COLOR
5710	BLACK
5711	BLUE
5712	TEAL

3) ELECTRICAL CHARACTERISTICS:

SEE PAGE 2

4) AGENCY APPROVALS:

5) APPLICATION:

SHIELDED FLEXIBLE PATCH/JUMPER CABLE TO SUPPORT SCREENED ISO 11801 CLASS D AND SCREENED 568-C.2 CATEGORY 5e APPLICATIONS. RoHS COMPLIANT MATERIALS.

6) PRINT: (WHITE INK ON BLACK JACKET, ALL OTHERS BLACK INK)

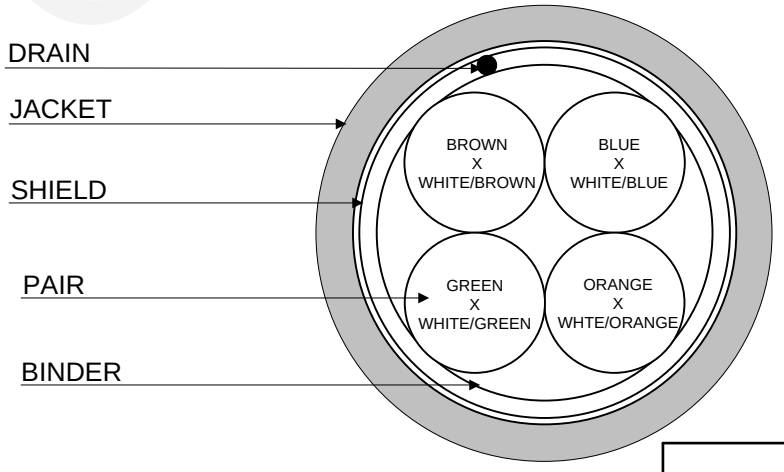
QUABBIN DATAMAX EXTREME DURABLE INDUSTRIAL ETHERNET PATCH CORD CAT 5e F/UTP P/N **(QWC P/N PER CHART 1)** -- RoHS -- **(LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)**

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



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REV. 02	CHECKED: GBM 05/12/15	

TITLE

DATAMAX EXTREME DURABLE INDUSTRIAL ETHERNET PATCH CABLE – 4 PR SCREENED

DRAWING # QWC0042 | 1 of 2

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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.	42.6 Ω/1000'	
IMPEDANCE	100+/- 15 Ω 1-100 MHz	
SRL	23 dB 1-20 MHz	
	23 - 10 LOG(f/20) 20-100 MHz	
RETURN LOSS	$1 \le f < 10$ MHz	20 + 5 LOG(f) dB MIN
	$10 \le f < 20$ MHz	25 dB MIN
	$20 \le f \le 100$ MHz	25 - 8.6 LOG(f/20) dB MIN
PS NEXT	$1 \le f \le 100$ MHz	32.3 - 15 LOG(f/100) dB MIN
NEXT	$1 \le f \le 100$ MHz	35.3 - 15 LOG(f/100) dB MIN
PSACRF	$1 \le f \le 100$ MHz	20.8 - 20 LOG(f/100) dB MIN
ACRF	$1 \le f \le 100$ MHz	23.8 - 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	< 25ns
LCL	$1 \le f \le 100$ MHz	-38dB MIN
VELOCITY OF PROPAGATION	68%	

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.

QUABBIN WIRE & CABLE

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