QWC0069

1) CONSTRUCTION:

		NOM. DIA.
CONDUCTOR:	26 AWG 7/34 STRANDED TINNED COPPER	.019"
INSULATION:	POLYOLEFIN, .010" NOM. WALL THICKNESS	.039" MAX.
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.	.149"
SHIELDS:	AN OVERALL ALUMINIZED POLYESTER FOIL SHIELD (FOIL OUT, 100% COVERAGE) SHALL BE APPLIED OVER THE CABLE CORE AND SHALL CONTAIN A 26 AWG 7/34 STRANDED TINNED COPPER DRAIN WIRE IN CONTACT WITH THE METALIZED SURFACE. A SECOND SHIELD OF 38 AWG TINNED COPPER BRAID (85% MINIMUM COVERAGE), SHALL BE APPLIED OVER THE FOIL SHIELD.	.170"
JACKET:	POLYURETHANE, **(COLOR, PER CHART 1)**, .022" NOM. WALL THICKNESS (PRESSURE) OVERALL CABLE DIAMETER	.220" ± .010" (BY PI TAPE)

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	75°C
TEMPERATURE RATING, MIN.	-40°C
WT./M', NOM., NET.	32.6 LBS.

UV RESISTANT JACKET

CHART 1:

QUABBIN P/N	JACKET COLOR
5730	BLACK
5731	BLUE
5732	TEAL

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

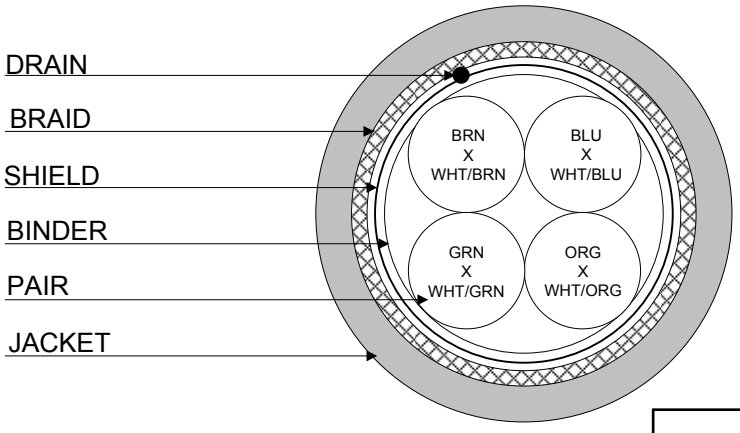
4) AGENCY APPROVALS:
EU CE MARK: MEETS EU DIRECTIVE 2011/65/EU (RoHS II).

5) APPLICATION:

6) PRINT: (WHITE INK ON BLACK JACKET, ALL OTHERS BLACK INK)
QUABBIN DATAMAX EXTREME DURABLE INDUSTRIAL ETHERNET PATCH CORD CAT 5e SF/UTP P/N **(P/N PER CHART 1)** -- 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 12/19/13	DRAWN:	SGH 12/06/18	QUABBIN® WIRE & CABLE
REV. 02	CHECKED:	ZRS 12/07/18	

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

DRAWING # QWC0069 | 1 of 2

CUSTOMER APPROVAL: **DATE:**

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	
IMPEDANCE, SMOOTHED	100 ± 10 Ω TYPICAL 5 - 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
PS ACRF	$1 \le f \le 100$ 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	<25 ns
LCL	$1 \le f \le 100$ MHz	-38 dB MIN
VELOCITY OF PROPAGATION	68%	

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.

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

DRAWING # QWC0069 2 of 2

CUSTOMER APPROVAL: **DATE:**