QWC0081

1) CONSTRUCTION:

		NOM. DIA.
CONDUCTOR:	24 AWG 7/32 STRANDED TINNED COPPER	.024"
INSULATION:	HIGH DENSITY POLYETHYLENE, .007" NOM. WALL THICKNESS	.039" MAX
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS	.078"
CABLE:	(4) TWISTED PAIRS TWISTED TOGETHER AND WRAPPED WITH TISSUE TAPE TO FORM A CABLE CORE	.163"
JACKET:	POLYURETHANE, **(COLOR, PER CHART 1)**, .028" NOM. WALL THICKNESS (PRESSURE) OVERALL CABLE DIAMETER	.240" .245" MAX.

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	75°C
TEMPERATURE RATING, MIN.	-40°C
WT./M', NOM., NET.	31.5 LBS.
UV RESISTANT JACKET	
BEND RADIUS	1" FOR STATIC BEND
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)

CHART 1:

QUABBIN P/N	JACKET COLOR
5700	BLACK
5703	RED
5706	BLUE
5716	TEAL

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

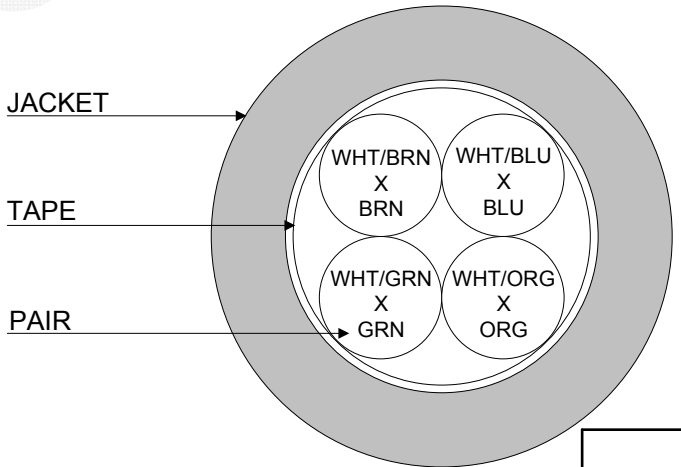
4) AGENCY APPROVALS:
EU CE MARK: MEETS EU DIRECTIVE 2011/65/EU (RoHS II)

5) APPLICATION:
FOR APPLICATIONS REQUIRING A RUGGED PATCH CORD ASSEMBLY. MEETS CATEGORY 5e ASSEMBLY SPECIFICATIONS. ALSO FOR USE IN PLUG TO PLUG CHANNELS (NO JACKS OR HORIZONTAL CABLE). SEE ATTENUATION TABLE FOR EQUIVALENT CHANNEL LENGTH.

6) PRINT: (WHITE INK ON BLACK JACKET, ALL OTHERS BLACK INK)
QUABBIN DATAMAX EXTREME HIGH FLEX INDUSTRIAL ETHERNET PATCH CORD P/N **(P/N PER CHART 1)** -- CE RoHS -- **(LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)**

7) COLOR CODE:
1. WHITE/BLUE X BLUE
2. WHITE/ORANGE X ORANGE
3. WHITE/GREEN X GREEN
4. WHITE/BROWN X BROWN

8) PUT UPS
AVAILABLE IN STANDARD 1000 FT REELS OR IN LONGER BULK PUTUPS



Created 05/19/14	DRAWN: SGH 09/26/18	QUABBIN® WIRE & CABLE
REV. 03	CHECKED: ZRS 09/26/18	

TITLE
DATAMAX EXTREME HIGH FLEX INDUSTRIAL ETHERNET PATCH CABLE – 4 PR

DRAWING # QWC0081 | 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 (MANUFACTURER'S RECOMMENDED)	
D.C. RESISTANCE, MAX.	14.0 Ω	
IMPEDANCE	100 ± 15 Ω 1-100 MHz; 100 ± 20 Ω 100-350 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
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	(SEE BELOW)	
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

INSERTION LOSS:

FREQUENCY	SPEC 70M OF CABLE (CAT 5e CHANNEL)	INSERTION LOSS PER METER
1.0	2.5	.036
4.0	4.5	.064
8.0	6.3	.09
10.0	7.0	.1
16.0	9.2	.13
20.0	10.3	.15
25.0	11.4	.16
31.25	12.8	.18
62.5	18.5	.26
100.0	24.0	.343

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.

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CUSTOMER APPROVAL: **DATE:**

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