QWC0020

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:	(2) TWISTED PAIRS TWISTED TOGETHER WITH FILLER AND WRAPPED WITH A CLEAR POLYESTER TAPE TO FORM A CABLE CORE	
JACKET:	POLYURETHANE (TYPE 350B), **(COLOR, PER CHART 1)**, .020" NOM. WALL THICKNESS (PRESSURE) OVERALL CABLE DIAMETER	.220" MAX

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	75° C
TEMPERATURE RATING, MIN.	-40° C
WT./M', NOM., NET.	20.5 LBS.
UV RESISTANT JACKET	
FLEX LIFE	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
5000	BLACK
5001	RED
5006	BLUE
5016	TEAL

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

4) AGENCY APPROVALS:

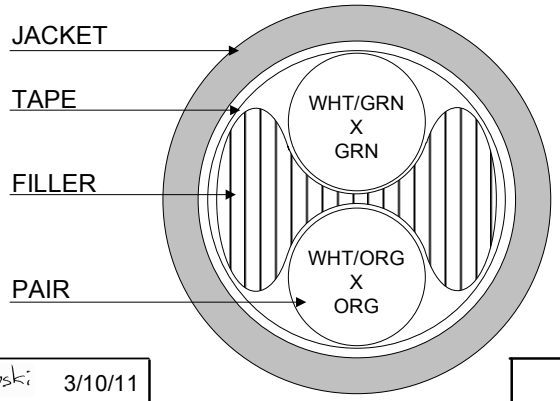
5) APPLICATION:
FOR APPLICATIONS REQUIRING A RUGGED PATCH CORD ASSEMBLY. MEETS CATEGORY 5e ASSEMBLY SPECIFICATIONS. ALSO FOR USE IN PLUG TO PLUG CHANNELS (NO JACKS OR HORIZONTAL CABLE). SEE ATTENUATION TABLE FOR EQUIVALENT CHANNEL LENGTH. RoHS COMPLIANT MATERIALS.

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

*NOTE: "R" MAY BE ADDED TO P/N IN PRINT TO DISTINGUISH FROM PREVIOUS NON-RoHS PRODUCT

7) COLOR CODE:
1. WHITE/GREEN X GREEN
2. WHITE/ORANGE X ORANGE

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



REVISION 01	DATE:	DRAWN B. Duczynski 3/10/11	
REVISED BY		CHECKED G. Munne 03/15/11	QUABBIN® WIRE & CABLE
CHECKED		CHECKED	TITLE: DATAMAX EXTREME HIGH FLEX INDUSTRIAL ETHERNET PATCH CABLE -- 2 PR
CHECKED		CUSTOMER APPROVAL: DATE:	DRAWING # QWC0020 — 1 OF 2

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3) ELECTRICAL CHARACTERISTICS: (FOR 100m OF CABLE)

CAPACITANCE, MUTUAL	13.5 PF/FT. AT 1 MHZ	
DIELECTRIC WITHSTANDING, MIN	1500V RMS	
VOLTAGE RATING, MAX.	300V	
D.C. RESISTANCE, MAX.	9.38 Ω/100m (26.0 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 - 10 MHZ	20 + 5 LOG (F) DB MIN
	10 - 20 MHZ	25 DB MIN
	20 - 100 MHZ	25 - 8.6 LOG(F/20) DB MIN
PS NEXT	1-100 MHZ	64 - 15 LOG (F/.772) MIN
NEXT	1-100 MHZ	67 - 15 LOG (F/.772) MIN
PS ELFEXT	1-100 MHZ	63 - 20 LOG(F/.772) MIN
ELFEXT	1-100 MHZ	66 - 20 LOG(F/.772) MIN
DELAY	1-100 MHZ	534 + 36/SQRT(F)
DELAY SKEW	1-100 MHZ	<25NS
LCL	1-100 MHZ	-38dB MIN

ATTENUATION:

FREQUENCY	SPEC 70M OF CABLE (CAT 5e CHANNEL)	ATTENUATION 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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