

1) CONSTRUCTION:

CONDUCTOR: 24 AWG 7/32 STRANDED TINNED COPPER	NOM. DIA. .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 (TYPE 350B), (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.	29.02 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:

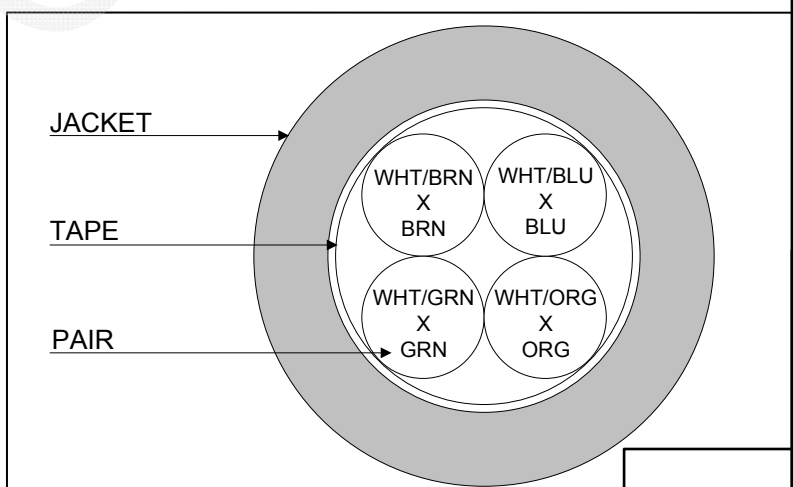
5) APPLICATION:
FOR APPLICATIONS REQUIRING A RUGGED PATCH CORD ASSEMBLY. MEETS CATEGORY 5e ASSEMBLY SPECIFICATIONS. ALSO FOR USE IN PLUG TO PLUG CHANNELS (NO JACKS OR HORIZONTAL CABLE). SEE ATTENUATION TABLE FOR EQUIVALENT CHANNEL LENGTH. RoHS COMPLIANT MATERIALS.

6) PRINT: (WHITE INK ON BLACK JACKET, ALL OTHERS BLACK INK)
QUABBIN DATAMAX EXTREME HIGH FLEX INDUSTRIAL ETHERNET PATCH CORD P/N (P/N PER CHART 1)
-- 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: 05/19/14	BMD	
REV. 01	CHECKED: 05/23/14	GBM	
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 SRL	100 +/- 15 Ω 1-100 MHz; 100 +/- 20 Ω 1-350 MHz 23 DB 1-20 MHz 23 - 10 LOG(F/20) 20-100 MHz	
RETURN LOSS	1 ≤ f < 10 MHz	20 + 5 LOG(f) dB MIN
	10 ≤ f < 20 MHz	25 dB MIN
	20 ≤ f ≤ 100 MHz	25- 8.6 LOG(f/20) dB MIN
NEXT	1 ≤ f ≤ 100 MHz	35.3 - 15 LOG(f/100) dB MIN
PSNEXT	1 ≤ f ≤ 100 MHz	32.3 - 15 LOG(f/100) dB MIN
ACRF	1 ≤ f ≤ 100 MHz	23.8 - 20 LOG(f/100) dB MIN
PSACRF	1 ≤ f ≤ 100 MHz	20.8 - 20 LOG(f/100) dB MIN
ATTENUATION	(SEE BELOW)	
DELAY	1 ≤ f ≤ 100 MHz	534 + 36/√f ns MAX
DELAY SKEW	1 ≤ f ≤ 100 MHz	<25ns
LCL	1 ≤ f ≤ 100 MHz	-38 dB 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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REV. 01	CHECKED: GBM 05/23/14	
TITLE DATAMAX EXTREME HIGH FLEX INDUSTRIAL ETHERNET PATCH CABLE – 4 PR		
DRAWING #		QWC0081
		2 of 2

CUSTOMER APPROVAL:

DATE: