

1) CONSTRUCTION:		NOM. DIA.
CONDUCTOR:	22 AWG 19/.0058" STRANDED TINNED COPPER	.028"
INSULATION:	HIGH DENSITY POLYETHYLENE, .009" NOM. WALL THICKNESS	.047"
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS	.094"
CABLE:	(4) TWISTED PAIRS TWISTED TOGETHER WRAPPED WITH CLEAR POLYESTER TAPE TO FORM A CABLE CORE.	.212"
JACKET:	POLYURETHANE, (COLOR, PER CHART 1) , .024" NOM. WALL THICKNESS (PRESSURE)	.260" NOM. .270" MAX.
	OVERALL CABLE DIAMETER	

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	75°C
TEMPERATURE RATING, MIN.	-40°C
WT./M', NOM., NET.	33.5 LBS.
UV RESISTANT JACKET	
BEND RADIUS	1" FOR STATIC BEND

CHART 1:

QUABBIN P/N	JACKET COLOR
5120	BLACK
5121	BLUE
5122	TEAL

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

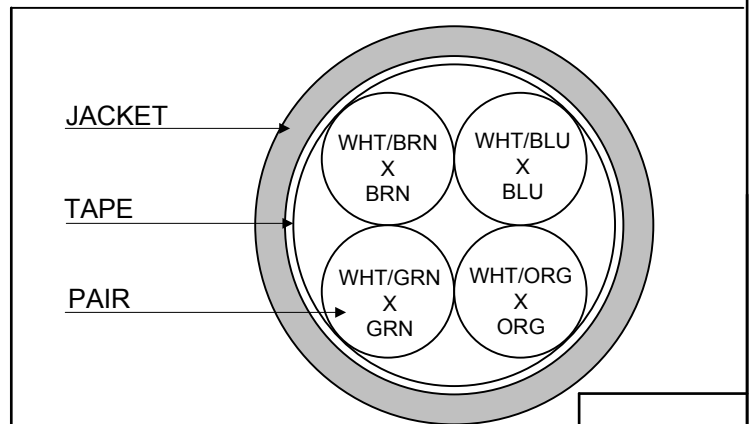
4) AGENCY APPROVALS:
EU CE MARK: MEETS EU DIRECTIVE 2011/65/EU (RoHS II).

5) APPLICATION:
FOR APPLICATIONS REQUIRING A RUGGED PATCH CORD ASSEMBLY.

6) PRINT:
QUABBIN DATAMAX EXTREME HIGH FLEX INDUSTRIAL ETHERNET PATCH CORD P/N **(QWC 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 03/23/17	DRAWN: SGH 03/02/18
REV. 02	CHECKED: ZRS 03/05/18



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

DRAWING # **QWC0102** 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.	17.5 Ω /1000'
IMPEDANCE	100 +/- 15 Ω 1-100 MHz; 100 +/-20 Ω 100 TO 350 MHz
RETURN LOSS	$1 \leq f < 10$ MHz 20 + 5 LOG(f) dB MIN $10 \leq f < 20$ MHz 25 dB MIN $20 \leq f \leq 100$ MHz 25 - 8.6 LOG(f/20) dB MIN
NEXT	$1 \leq f \leq 100$ MHz 35.3 - 15 LOG(f/100) dB MIN
PSNEXT	$1 \leq f \leq 100$ MHz 32.3 - 15 LOG(f/100) dB MIN
ACRF	$1 \leq f \leq 100$ MHz 23.8 - 20 LOG(f/100) dB MIN
PSACRF	$1 \leq f \leq 100$ MHz 20.8 - 20 LOG(f/100) dB MIN
INSERTION LOSS*	$1 \leq f \leq 100$ MHz 1.3[1.967 \sqrt{f} + 0.023(f) + 0.050/ \sqrt{f}] dB MAX
DELAY	$1 \leq f \leq 100$ MHz 534 + 36/ \sqrt{f} ns MAX
DELAY SKEW	$1 \leq f \leq 100$ MHz < 45 ns
LCL	$1 \leq f \leq 100$ MHz -38 dB MIN

*INSERTION LOSS IS GREATER THAN TIA SPEC DUE TO JACKET MATERIAL. WILL MEET CAT 5e CHANNEL REQUIREMENTS AT 83 METER LENGTH.

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.

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