

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: (2) TWISTED PAIRS TWISTED TOGETHER WITH FILLER AND WRAPPED .183"
 WITH CLEAR POLYESTER TAPE TO FORM A CABLE CORE.
 JACKET: POLYURETHANE, (COLOR, PER CHART 1), .024" NOM. WALL THICKNESS
 (PRESSURE) .235" NOM.
 OVERALL CABLE DIAMETER .245" MAX.

2) PHYSICAL PROPERTIES:
 TEMPERATURE RATING, MAX. 75°C
 TEMPERATURE RATING, MIN. -40°C
 WT./M', NOM., NET. 23.8 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
5020	BLACK
5021	BLUE
5022	TEAL

3) ELECTRICAL CHARACTERISTICS:
 SEE PAGE 2

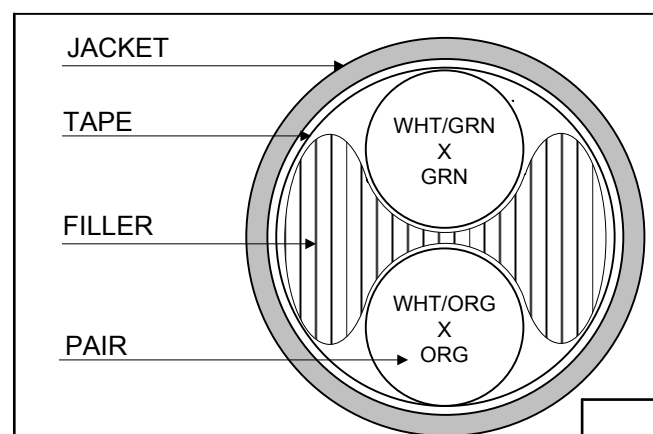
4) AGENCY APPROVALS:
 EU CE MARK: MEETS EU DIRECTIVE 2011/65/EU (RoHS II).

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/GREEN X GREEN
 2. WHITE/ORANGE X ORANGE

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



Created 11/06/18	DRAWN: SGH 11/06/18
REV. 01	CHECKED: JFR 11/7/18



TITLE
 DATAMAX EXTREME HIGH FLEX INDUSTRIAL
 ETHERNET PATCH CABLE -- 2 PR
 DRAWING # **QWC0113** 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.	5.22 Ω/100m	
IMPEDANCE	100 ± 15 Ω 1 - 100 MHz; 100 ± 20 Ω 100 - 350 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
ACRF	1 ≤ f ≤ 100 MHz	23.8 - 20 LOG(f/100) dB MIN
INSERTION LOSS*	1 ≤ f ≤ 100 MHz	1.3[1.967 √f + 0.023(f) + 0.050/√f] dB MAX
DELAY	1 ≤ f ≤ 100 MHz	534 + 36/√f ns MAX
DELAY SKEW	1 ≤ f ≤ 100 MHz	<25 ns
LCL	1 ≤ f ≤ 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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		2 of 2

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