

1) CONSTRUCTION:

CONDUCTOR:	24 AWG 7/32 STRANDED TINNED COPPER	NOM. DIA.	.024"
INSULATION:	HIGH DENSITY POLYETHYLENE, .008" NOM. WALL THICKNESS		.039"
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		.176"
JACKET:	THERMOPLASTIC ELASTOMER, (COLOR, PER CHART 1), .032" NOM. WALL THICKNESS (PRESSURE)		
	OVERALL CABLE DIAMETER		.240" (+/- .005")

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	75°C (JACKET 105°C, 75°C OIL) & 80°C
TEMPERATURE RATING, MIN.	-40°C
WT./M', NOM., NET.	21.9 LBS.
JACKET IS WELD SPATTER RESISTANT	
JACKET IS SUNLIGHT RESISTANT	PER UL 2556
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)

TORSION TEST

(1 LB LOAD, 360°, 71 CYCLES/MIN, @ 20°C) 3 MILLION CYCLE TEST
 JACKET CUTTING/MACHINING OIL RESISTANCE (PER QUABBIN TEST REPORT #TR 08-0001)
 (6 MONTHS @ 20°C)

TENSILE STRENGTH RETENTION, NOM.	80%
ELONGATION RETENTION, NOM.	100%

POE COMPLIANT (802.3af) TO 85 METERS WHEN INSTALLED PER RECOMMENDATIONS IN TIA TSB-184
 CABLE WILL MEET CAT 5e CHANNEL REQUIREMENTS TO 85 METER LENGTH

CHART 1:

QUABBIN P/N	JACKET COLOR
5770	BLACK
5771	BLUE
5772	TEAL
5773	RED

3) ELECTRICAL CHARACTERISTICS:

SEE PAGE 2

4) AGENCY APPROVALS:

UL AWM STYLE 2463 (80C 600V)
 NEC (UL) TYPE CMX OUTDOOR - CM
 CEC C(UL) TYPE CMX OUTDOOR - CM

5) APPLICATION:

FOR CAT 5e APPLICATIONS REQUIRING A RUGGED PATCH CORD ASSEMBLY. MEETS EU DIRECTIVE 2011/65/EU (RoHS II).

6) PRINT: (WHITE INK ON BLACK JACKET, ALL OTHERS BLACK INK)

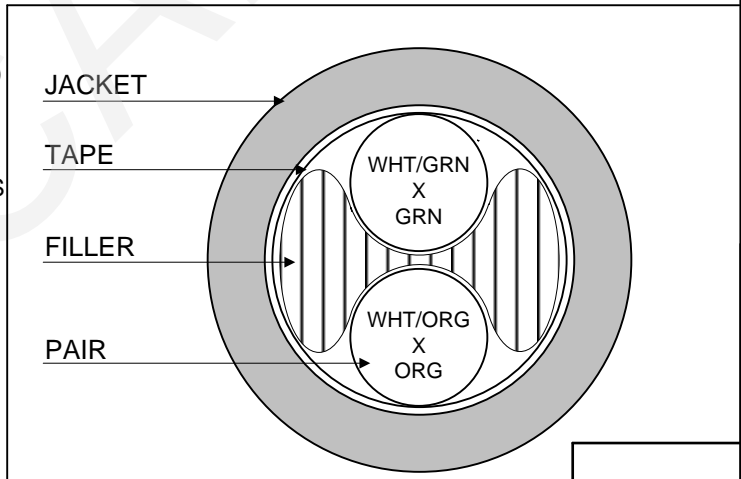
QUABBIN DATAMAX EXTREME HIGH FLEX INDUSTRIAL ETHERNET/IP PATCH CORD CAT 5e U/UTP P/N (**QWC P/N PER CHART 1**) -- C(UL)US TYPE CMX OUTDOOR - CM 2PR 24 AWG 75C SUN RES OR AWM 2463 80C 600V -- CE RoHS -- (**LOT DESIGNATOR**) (**SEQUENTIAL FOOTAGE**)

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 3/23/11	DRAWN: SGH 12/19/17
REV. 08	CHECKED: JFR 12/19/17



TITLE DATAMAX EXTREME HI-FLEX INDUSTRIAL 5E ETHERNET/IP PATCH CABLE -- 2 PR -- TYPE CMX OUTDOOR-CM, AWM STYLE 2463

DRAWING # QWC0022 1 of 2

CUSTOMER APPROVAL:

DATE:

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

CAPACITANCE, MUTUAL 13.5 PF/FT. AT 1 MHz
 DIELECTRIC WITHSTANDING, MIN 1500V RMS
 VOLTAGE RATING, MAX. 600V
 D.C. RESISTANCE, MAX. 26.0 Ω/ 1000' @ 20°C
 IMPEDANCE 100 +/- 15 Ω 1-100 MHz


RETURN LOSS	1 ≤ f < 10 MHz	20 + 6 LOG (f) dB MIN*
	10 ≤ f < 20 MHz	26 dB MIN*
	20 ≤ f ≤ 100 MHz	26 - 5 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	1.2[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
TCL	1 ≤ f < 30 MHz	73 - 15 LOG(f) dB (40 dB MAX) E ₃ *
	30 ≤ f ≤ 100 MHz	80.4 - 20 LOG(f) dB MIN E ₃ *
ELTCTL	1 ≤ f ≤ 30 MHz	50 - 20 LOG(f) dB MIN (40 dB MAX) E ₃ *
VELOCITY OF PROPAGATION	68%	

*PER ODVA VOLUME 2 ETHERNET/IP

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.

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