QWC0018

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:	(4) TWISTED PAIRS TWISTED TOGETHER AND WRAPPED WITH A CLEAR POLYESTER TAPE TO FORM A CABLE CORE	.171"
JACKET:	LOW SMOKE ZERO HALOGEN, **(COLOR, PER CHART 1)**, .030" NOM. WALL THICKNESS	
	OVERALL CABLE DIAMETER	.231" (BY PI TAPE)

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	75°C
TEMPERATURE RATING, MIN.	-20°C
WT./M', NOM., NET.	27.4 LBS.
FLAME RATING	VW-1
CORROSIVE GAS	IEC 60754-2
SMOKE EMISSION	IEC 61034-1 & -2

CHART 1:

QUABBIN P/N	JACKET COLOR
1300	BLACK
1301	BROWN
1302	RED
1303	ORANGE
1304	YELLOW
1305	GREEN
1306	BLUE
1307	VIOLET
1308	GRAY
1309	WHITE
1310	BEIGE
1312	PINK

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

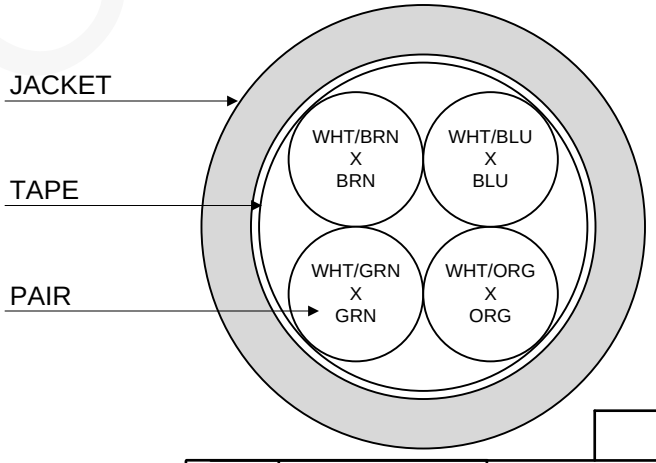
4) AGENCY APPROVALS:
NEC (ETL) TYPE CMX
CEC C(ETL) TYPE CMX

5) APPLICATION:
SUITABLE FOR FUTURE APPLICATIONS AND PROTOCOLS BEYOND 1000BASE-T (GIGABIT ETHERNET). CABLE FITS STANDARD MODULAR PLUGS. RoHS COMPLIANT MATERIALS.

6) PRINT: (WHITE INK ON BLACK JACKET, ALL OTHERS BLACK INK)
QUABBIN DATAMAX 6 U/UTP PATCH CORD P/N **(QWC P/N PER CHART 1)** LOW SMOKE ZERO HALOGEN TIA-568.2-D CAT 6 -- C(ETL)US TYPE CMX 75C 24 AWG -- VW-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) PACKAGING:
TO BE PACKAGED AS PER QWC'S STANDARD PACKAGING



Created 03/07/11	DRAWN: SGH 07/30/20	QUABBIN® WIRE & CABLE
REV. 04	CHECKED: ZRS 07/31/20	

TITLE
DATAMAX 6 PATCH CABLE -- TYPE CMX

DRAWING# QWC0018 | 1 of 2

CUSTOMER APPROVAL: **DATE:**

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3) ELECTRICAL CHARACTERISTICS:

CAPACITANCE, MUTUAL, NOM.	13.5 PF/FT. AT 1 MHz
DIELECTRIC WITHSTANDING, MIN.	1500V RMS
VOLTAGE RATING, MAX.	300V
D.C. RESISTANCE, MAX.	26.2Ω/1,000' (8.6 Ω/100m)

NOTE: TESTING FOR THE FOLLOWING IS CONDUCTED OFF THE REEL. (FOR 100m OF CABLE)

IMPEDANCE	100 ± 15 Ω 1 – 100 MHz; 100 ± 20 Ω 100 – 250 MHz	
IMPEDANCE, SMOOTHED	100 ± 3 Ω TYPICAL 5 – 250 MHz	
RETURN LOSS	$1 \le f < 10$ MHz	$20 + 5\ LOG(f)$ dB MIN
	$10 \le f < 20$ MHz	25 dB MIN
	$20 \le f \le 250$ MHz	$25 – 8.6LOG(f/20)$ dB MIN
PS NEXT	$1 \le f \le 250$ MHz	$42.3 – 15LOG(f/100)$ dB MIN
NEXT	$1 \le f \le 250$ MHz	$44.3 – 15LOG(f/100)$ dB MIN
PSACRF	$1 \le f \le 250$ MHz	$24.8 – 20LOG(f/100)$ dB MIN
ACRF	$1 \le f \le 250$ MHz	$27.8 – 20LOG(f/100)$ dB MIN
INSERTION LOSS	$1 \le f \le 250$ MHz	$1.2[1.808\sqrt{f} + 0.017(f) + 0.2/\sqrt{f}]$ dB MAX
DELAY	$1 \le f \le 250$ MHz	$534 + 36/\sqrt{f}$ ns MAX
DELAY SKEW	$1 \le f \le 250$ MHz	<25ns
TCL	$1 \le f \le 250$ MHz	$30 – 10LOG(f/100)$ dB MIN
ELTCTL	$1 \le f \le 30$ MHz	$35 – 20LOG(f)$ dB MIN

QUABBIN WIRE & CABLE

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