QWC0117

1) CONSTRUCTION:

		NOM. DIA.
CONDUCTOR:	26 AWG 7/34 STRANDED TINNED COPPER	.0189"
INSULATION:	FOAMED FEP, .010" NOM. WALL THICKNESS	.039"
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS	.078"
CABLE:	(4) TWISTED PAIRS TWISTED TOGETHER TO FORM A CABLE CORE	
SHIELD:	AN ALUMINUM POLYESTER ALUMINUM FOIL SHIELD (100% COVERAGE) WITH 7 ENDS OF 34 AWG TINNED COPPER DRAIN WIRE IN CONTACT WITH THE METALIZED SURFACE SHALL BE APPLIED OVER THE CABLE CORE.	.181"
JACKET:	LOW SMOKE POLYVINYLCHLORIDE, **(COLOR, PER CHART 1)**, .021" NOM. WALL THICKNESS	
	OVERALL CABLE DIAMETER	.223" NOM. (BY CALIPER)

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	105°C
TEMPERATURE RATING, MIN.	-20°C
WT./M', NOM., NET.	22.2 LBS.

CHART 1:

QUABBIN P/N	JACKET COLOR
2056	BLACK
2057	BROWN
2058	RED
2059	ORANGE
2060	YELLOW
2061	GREEN
2062	BLUE
2063	VIOLET
2064	GRAY
2065	WHITE
2066	STARLIGHT BEIGE
2098	PINK

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

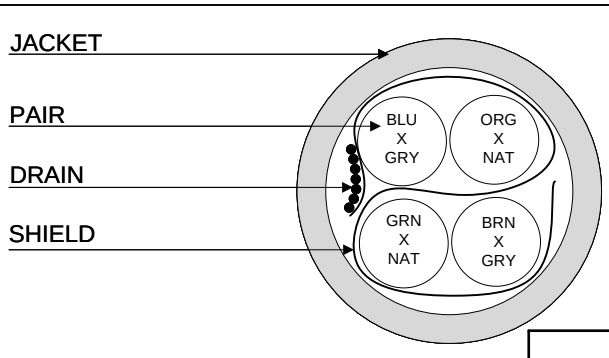
4) AGENCY APPROVALS:
NEC (ETL) TYPE CMP
CEC C(ETL) TYPE CMP

5) APPLICATION:
RoHS COMPLIANT MATERIALS. MEETS TIA 568.2-D CAT 6A CHANNEL REQUIREMENTS AT 70 METERS. 10 METERS OF PATCH CABLE WITH A 90 METERS PERMANENT LINK (100 METER CHANNEL). SUPPORTS CAT 6A APPLICATIONS INCLUDING 10GBASE-T AT THESE LENGTHS, FOR OTHER COMBINATIONS SEE “CHANNEL REQUIREMENTS AND THE LENGTH OF STRANDED CABLE” TECHNICAL BRIEF. PATENT NO. US 9,355,759 B2

6) PRINT: (WHITE INK ON BLACK JACKET, ALL OTHERS BLACK INK)
QUABBIN DATAMAX CAT 6a F/UTP PATCH CORD P/N
(QWC P/N PER CHART 1) -- PATENT NO. US 9,355,759 B2 --
C(ETL)US TYPE CMP 26 AWG 105C -- RoHS --
(LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)

7) COLOR CODE:
1. NATURAL X ORANGE
2. GRAY X BROWN
3. NATURAL X GREEN
4. GRAY X BLUE

8) PUT UPS
TO BE PACKAGED AS PER QWC’S STANDARD PACKAGING



Created 04/19/19	DRAWN:	BMD 01/18/23	QUABBIN® WIRE & CABLE
REV. 04	CHECKED:	ZRS 04/20/23	

TITLE
DATAMAX 26 AWG CAT 6a F/UTP PATCH CABLE – TYPE CMP

DRAWING# QWC0117 1 of 2

CUSTOMER APPROVAL: **DATE:**

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.	14.0 Ω (42.6 Ω/1,000' NOM.)

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

IMPEDANCE, NOM.	100 ± 15 Ω 1 - 100 MHz 100 ± 20 Ω 100 - 500 MHz	
RETURN LOSS	$1 \le f < 10$ MHz	20 + 5 LOG(f) dB MIN
	$10 \le f < 20$ MHz	25 dB MIN
	$20 \le f \le 500$ MHz	25 - 8.6 LOG(f/20) dB MIN
PS NEXT	$1 \le f \le 500$ MHz	42.3 - 15 LOG(f/100) dB MIN
NEXT	$1 \le f \le 500$ MHz	44.3 - 15 LOG(f/100) dB MIN
PS ACRF	$1 \le f \le 500$ MHz	24.8 - 20 LOG(f/100) dB MIN
ACRF	$1 \le f \le 500$ MHz	27.8 - 20 LOG(f/100) dB MIN
INSERTION LOSS	$1 \le f \le 500$ MHz	1.5[1.82$\sqrt{}$(f) + 0.0091(f) + 0.25/$\sqrt{}$(f)] dB MAX
DELAY	$1 \le f \le 500$ MHz	534 + 36/$\sqrt{}$(f) ns MAX
DELAY SKEW	$1 \le f \le 500$ MHz	<45 ns
PS ANEXT LOSS (6 AROUND 1)	$1 \le f \le 500$ MHz	62.5 - 15 LOG(f/100) dB 50 - 500 MHz 67 dB 1 - 50 MHz
PS AFEXT (6 AROUND 1)	$1 \le f \le 500$ MHz	38.2 - 20 LOG(f/100) dB, 67 dB MIN
TCL	$1 \le f \le 500$ MHz	30 - 10 LOG(f/100) dB MIN, 40 dB MIN
ELTCTL	$1 \le f \le 30$ MHz	35 - 20 LOG(f) dB MIN
VELOCITY OF PROPAGATION	68%	

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DRAWING# QWC0117 2 of 2

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