

1) CONSTRUCTION:

CONDUCTOR: 26 AWG 7/34 STRANDED TINNED COPPER  
 INSULATION: FOAMED FEP, .010" NOM. WALL THICKNESS  
 PAIRS: COLOR CODED SINGLES TWISTED INTO PAIRS  
 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.  
 JACKET: POLYVINYLCHLORIDE, (**COLOR, PER CHART 1**), .021" NOM. WALL THICKNESS  
 OVERALL CABLE DIAMETER

NOM. DIA.  
 .0189"  
 .039"  
 .078"  
 .181"  
 .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
2067	BLACK
2068	BROWN
2069	RED
2070	ORANGE
2071	YELLOW
2072	GREEN
2073	BLUE
2074	VIOLET
2075	GRAY
2076	WHITE
2077	STARLIGHT BEIGE

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 6 CHANNEL REQUIREMENTS AT 68 METERS. 8 METERS OF PATCH CABLE WITH A 90 METERS PERMANENT LINK (98 METER CHANNEL) OR 10 METERS OF PATCH CABLE WITH AN 87 METER PERMANENT LINK (97 METER CHANNEL). SUPPORTS CAT 6 APPLICATIONS AT THESE LENGTHS, FOR OTHER COMBINATIONS SEE "CHANNEL REQUIREMENTS AND THE LENGTH OF STRANDED CABLE" TECHNICAL BRIEF. PATENT PENDING.

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

QUABBIN DATAMAX CAT 6 F/UTP PATCH CORD P/N (**QWC P/N PER CHART 1**)

-- PATENT PENDING -- 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

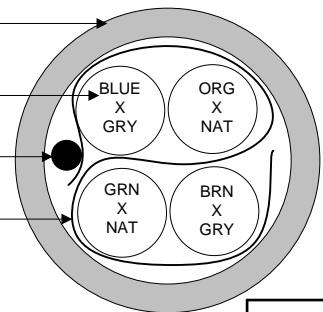
TO BE PACKAGED AS PER QWC'S STANDARD PACKAGING

JACKET

PAIR

DRAIN

SHIELD



Created 04/19/19	BMD DRAWN: 04/19/19
REV. 01	ZRS CHECKED: 04/26/19



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

DRAWING# **QWC0118** 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.	300V
D.C. RESISTANCE, MAX.	14.0 $\Omega$ (42.6 $\Omega$ /1,000' NOM.)

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

IMPEDANCE, NOM.	100 $\pm$ 15 $\Omega$ 1 - 250 MHz
IMPEDANCE, SMOOTHED	100 $\pm$ 10 $\Omega$ TYPICAL 5 - 250 MHz
RETURN LOSS	$1 \leq f \leq 10$ MHz 20 + 5 LOG( $f$ ) dB MIN $10 \leq f < 20$ MHz 25 dB MIN $20 \leq f \leq 250$ MHz 25 - 8.6 LOG( $f/20$ ) dB MIN
PS NEXT	$1 \leq f \leq 250$ MHz 42.3 - 15 LOG ( $f/100$ ) dB MIN
NEXT	$1 \leq f \leq 250$ MHz 44.3 - 15 LOG ( $f/100$ ) dB MIN
PS ACRF	$1 \leq f \leq 250$ MHz 24.8 - 20 LOG( $f/100$ ) dB MIN
ACRF	$1 \leq f \leq 250$ MHz 27.8 - 20 LOG( $f/100$ ) dB MIN
INSERTION LOSS	$1 \leq f \leq 250$ MHz 1.5[1.808 $\sqrt{f}$ + 0.017( $f$ ) + 0.20/ $\sqrt{f}$ ] dB MAX
DELAY	$1 \leq f \leq 250$ MHz 534 + 36/ $\sqrt{f}$ ns MAX
DELAY SKEW	$1 \leq f \leq 250$ MHz <45 ns
TCL	$1 \leq f \leq 250$ MHz 30 - 10 LOG( $f/100$ ), 40 dB MIN
ELTCTL	$1 \leq f \leq 30$ MHz 35 - 20 LOG( $f$ ) dB MIN
VELOCITY OF PROPAGATION	68%

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.

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REV. 01	CHECKED: ZRS 04/26/19	
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