

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: LOW SMOKE POLYVINYLCHLORIDE, (**COLOR, PER CHART 1**), .021" NOM. WALL THICKNESS

NOM. DIA.
 .0189"
 .039"
 .078"
 .181"
 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

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 PENDING.

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 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

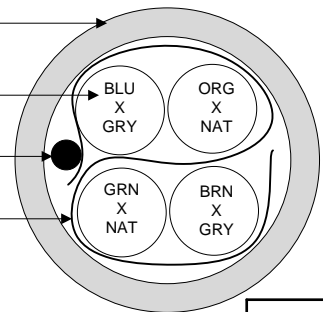
TO BE PACKAGED AS PER QWC'S STANDARD PACKAGING

JACKET

PAIR

DRAIN

SHIELD



Created 04/19/19
 DRAWN: SGH 07/21/20
 REV. 02
 CHECKED: ZRS 07/21/20



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

Created 04/19/19	DRAWN: SGH 07/21/20
REV. 02	CHECKED: ZRS 07/21/20



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2 of 2