

1) CONSTRUCTION:

CONDUCTOR:	26 AWG 7/34 STRANDED TINNED COPPER	NOM. DIA.	.019"
INSULATION:	HIGH DENSITY POLYETHYLENE, .009" NOM. WALL THICKNESS		.036"
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS		.072"
CABLE:	(4) TWISTED PAIRS TWISTED TOGETHER WITH A CENTRAL SPLINE AND WRAPPED WITH A CLEAR POLYESTER BINDER TO FORM A CABLE CORE.		.205"
SHIELD:	AN ALUMINIZED POLYESTER FOIL SHIELD (FOIL IN, 100% COVERAGE) WITH A 26 AWG 7/34 STRANDED TINNED COPPER DRAIN WIRE IN CONTACT WITH METALIZED SURFACE SHALL BE APPLIED OVER THE CABLE CORE.		.208"
JACKET:	POLYVINYLCHLORIDE, ( <b>COLOR, PER CHART 1</b> ), .024" NOM. WALL THICKNESS		.235" NOM. .240" MAX. (BY PI TAPE)
	OVERALL CABLE DIAMETER		

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	75°C
TEMPERATURE RATING, MIN.	-20°C
WT./M', NOM., NET.	24.5 LBS.

CHART 1:

QUABBIN P/N	JACKET COLOR
2942	BLACK
2943	BROWN
2944	RED
2945	ORANGE
2946	YELLOW
2947	GREEN
2948	BLUE
2949	VIOLET
2950	GRAY
2951	WHITE
2952	BEIGE
2953	PINK
2991	AQUA

3) ELECTRICAL CHARACTERISTICS:

SEE PAGE 2

4) AGENCY APPROVALS:

NEC (UL) TYPE CMR/CMG  
CEC C(UL) TYPE CMR/CMG

5) APPLICATION:

SHIELDED FLEXIBLE PATCH/JUMPER CABLE TO SUPPORT SCREENED 568.2-D CATEGORY 6a APPLICATIONS.  
RoHS COMPLIANT MATERIALS.

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

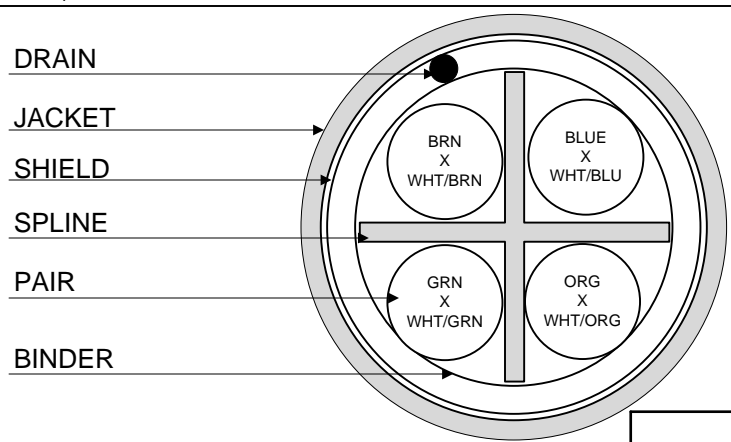
QUABBIN DATAMAX 6a F/UTP 100 OHM PATCH CORD P/N (**QWC P/N PER CHART 1**) -- TYPE CMR C(UL)US CMG 4 PR 26 AWG SHIELDED 75C -- FT4/IEEE 1202 -- CAT 6a TIA-568.2-D -- RoHS -- (**LOT DESIGNATOR**) (**SEQUENTIAL FOOTAGE**)

7) COLOR CODE:

1. BLUE X WHITE/BLUE
2. ORANGE X WHITE/ORANGE
3. GREEN X WHITE/GREEN
4. BROWN X WHITE/BROWN

8) PACKAGING:

TO BE PACKAGED AS PER QWC'S STANDARD PACKAGING



CUSTOMER APPROVAL:

DATE:


Created 04/08/11	DRAWN: SGH 01/21/21	
REV. 04	CHECKED: ZRS 01/27/21	
TITLE 4PR. SHIELDED 100 OHM PATCH CORD -- CATEGORY 6a		
DRAWING #	QWC0023	1 of 2

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.	42.6 Ω/1,000' (14.0 Ω/100m)

**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 ≤ f < 10 MHz	20 + 5 LOG(f) dB MIN
	10 ≤ f < 20 MHz	25 dB MIN
	20 ≤ f ≤ 500 MHz	25 – 8.6 LOG(f/20) dB MIN
PS NEXT	1 ≤ f ≤ 500 MHz	42.3 – 15 LOG(f/100) dB MIN
NEXT	1 ≤ f ≤ 500 MHz	44.3 – 15 LOG(f/100) dB MIN
PS ACRF	1 ≤ f ≤ 500 MHz	24.8 – 20 LOG(f/100) dB MIN
ACRF	1 ≤ f ≤ 500 MHz	27.8 – 20 LOG(f/100) dB MIN
INSERTION LOSS	1 ≤ f ≤ 500 MHz	1.5[1.82√(f) + 0.0091(f) + 0.25/√(f)] dB MAX
DELAY	1 ≤ f ≤ 500 MHz	534 + 36/√(f) ns MAX
DELAY SKEW	1 ≤ f ≤ 500 MHz	<45ns
PS ANEXT LOSS (6 AROUND 1)	1 ≤ f ≤ 500 MHz	62.5 – 15 LOG(f/100) dB
		67 dB
		50 – 500 MHz
		1 – 50 MHz
PS AFEXT (6 AROUND 1)	1 ≤ f ≤ 500 MHz	38.2 – 20 LOG(f/100) dB
VELOCITY OF PROPAGATION	68%	

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