

1) CONSTRUCTION:

CONDUCTOR: 26 AWG 7/34 STRANDED TINNED COPPER  
 INSULATION: HIGH DENSITY POLYETHYLENE, .011" NOM. WALL THICKNESS  
 PAIRS: COLOR CODED SINGLES TWISTED INTO PAIRS  
 CABLE: (4) TWISTED PAIRS TWISTED TOGETHER  
 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**), .024" NOM. WALL THICKNESS

NOM. DIA.  
 .019"  
 .0405"  
 .081"  
 .177"  
 .185"  
 .233" NOM. ± .010"  
 (BY PI TAPE)

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX. 75°C  
 TEMPERATURE RATING, MIN. -20°C  
 WT./M', NOM., NET. 23.2 LBS.

CHART 1:

QUABBIN P/N	JACKET COLOR
2157	BLACK
2158	BROWN
2159	RED
2160	ORANGE
2161	YELLOW
2162	GREEN
2163	BLUE
2164	VIOLET
2165	GRAY
2166	WHITE
2167	BEIGE
2168	PINK

3) ELECTRICAL CHARACTERISTICS:

SEE PAGE 2

4) AGENCY APPROVALS:

NEC (UL) TYPE CMR/CMG  
 CEC C(UL) TYPE CMR/CMG  
 EU CE MARK: MEETS EU DIRECTIVE 2011/65/EU (RoHS II)

5) APPLICATION:

SHIELDED FLEXIBLE PATCH/JUMPER CABLE TO SUPPORT SCREENED 568.2-D CATEGORY 6 APPLICATIONS.  
 PATENT NO. US 9,355,759 B2.

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

QUABBIN DATAMAX 6 F/UTP 100 OHM PATCH  
 CORD P/N (**QWC P/N PER CHART 1**) -- PATENT NO.  
 US 9,355,759 B2 -- TYPE CMR C(UL)US CMG 4 PR 26  
 AWG SHIELDED 75C -- FT4/IEEE 1202 -- CAT 6  
 TIA-568.2-D -- CE RoHS -- (**LOT DESIGNATOR**)  
 (**SEQUENTIAL FOOTAGE**)

7) COLOR CODE:

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

8) PACKAGING:

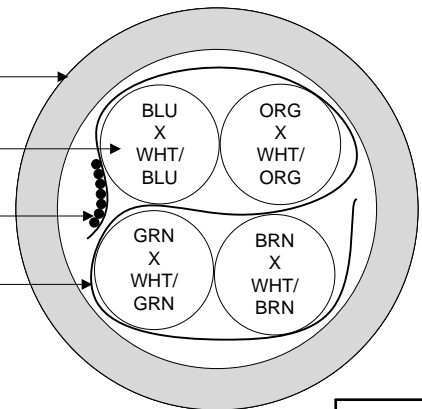
TO BE PACKAGED AS PER QWC'S  
 STANDARD PACKAGING

JACKET

PAIR

DRAIN

SHIELD



CUSTOMER APPROVAL:

DATE:

Created 12/28/22 DRAWN: SGH 01/12/23  
 REV. 02 CHECKED: ZRS 01/25/23



TITLE  
 4PR. SHIELDED 100 OHM RELAXED PATCH  
 CORD -- CATEGORY 6

DRAWING # QWC0168

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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.	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 - 250 MHz	
RETURN LOSS	1 ≤ f < 10 MHz	20 + 5 LOG(f) dB MIN
	10 ≤ f < 20 MHz	25 dB MIN
	20 ≤ f ≤ 250 MHz	25 - 8.6 LOG(f/20) dB MIN
PSNEXT	1 ≤ f ≤ 250 MHz	42.3 - 15 LOG (f/100) dB MIN
NEXT	1 ≤ f ≤ 250 MHz	44.3 - 15 LOG (f/100) dB MIN
PSACRF	1 ≤ f ≤ 250 MHz	24.8 - 20 LOG(f/100) dB MIN
ACRF	1 ≤ f ≤ 250 MHz	27.8 - 20 LOG(f/100) dB MIN
INSERTION LOSS	1 ≤ f ≤ 250 MHz	1.5[1.808√(f) + 0.017(f) + 0.2/√(f)] dB MAX
DELAY	1 ≤ f ≤ 250 MHz	534 + 36/√(f) ns MAX
DELAY SKEW	1 ≤ f ≤ 250 MHz	<45 ns
TCL	1 ≤ f ≤ 250 MHz	30 - 10 LOG(f/100) dB MIN, 40 dB MIN
ELTCTL	1 ≤ f ≤ 30 MHz	35 - 20 LOG(f) dB MIN
VELOCITY OF PROPAGATION	68%	

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TITLE 4PR. SHIELDED 100 OHM RELAXED PATCH CORD -- CATEGORY 6		
DRAWING #		QWC0168
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CUSTOMER APPROVAL:

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