

1) CONSTRUCTION:

CONDUCTOR:	26 AWG 7/34 STRANDED TINNED COPPER	NOM. DIA.	.019"
INSULATION:	HIGH DENSITY POLYETHYLENE, .011" NOM. WALL THICKNESS		.0405"
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS		.081"
CABLE:	(4) TWISTED PAIRS TWISTED TOGETHER		.177"
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.		.180"
JACKET:	POLYVINYLCHLORIDE, (COLOR, PER CHART 1), .024" NOM. WALL THICKNESS	OVERALL CABLE DIAMETER	.228" NOM.

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
2246	BLACK
2247	BROWN
2248	RED
2249	ORANGE
2250	YELLOW
2251	GREEN
2252	BLUE
2253	VIOLET
2254	GRAY
2255	WHITE
2256	BEIGE
2257	PINK
2258	AQUA
2259	LIGHT BLUE

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-C.2 CATEGORY 6a APPLICATIONS.
RoHS COMPLIANT MATERIALS. PATENT PENDING

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 -- CAT 6a TIA-568-C.2 -- 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:

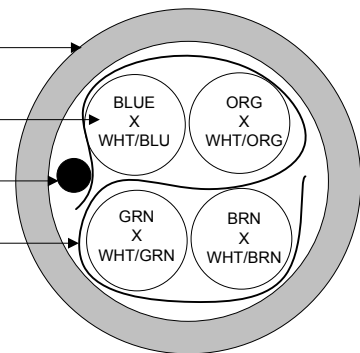
TO BE PACKAGED AS PER QWC'S STANDARD PACKAGING

JACKET

PAIR

DRAIN

SHIELD



CUSTOMER APPROVAL:

DATE:

Created 08/07/15	DRAWN: SGH 05/21/18	
REV. 05	CHECKED: ZRS 05/21/18	

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

DRAWING # **QWC0091**

1 of 2

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 Ω	
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	<45 ns
PS ANEXT LOSS (6 AROUND 1)	1 ≤ f ≤ 500 MHz	62.5 - 15 LOG (f/100) dB 50 - 500 MHz 67 dB 1 - 50 MHz
PS AFEXT (6 AROUND 1)	1 ≤ f ≤ 500 MHz	38.2 - 20 LOG(f/100) dB, 67 dB MIN
TCL	1 ≤ f ≤ 500 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%	

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.

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TITLE 4PR. SHIELDED 100 OHM RELAXED PATCH CORD -- CATEGORY 6a		
DRAWING #		2 of 2

QWC0091