QWC0091

1) CONSTRUCTION:

		NOM. DIA.
CONDUCTOR:	26 AWG 7/34 STRANDED TINNED COPPER	.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.	.185"
JACKET:	POLYVINYLCHLORIDE, **(COLOR, PER CHART 1**), .024" NOM. WALL THICKNESS	
	OVERALL CABLE DIAMETER	.233" NOM. (BY PI TAPE)

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	75°C
TEMPERATURE RATING, MIN.	-20°C
WT./M', NOM., NET.	23.6 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

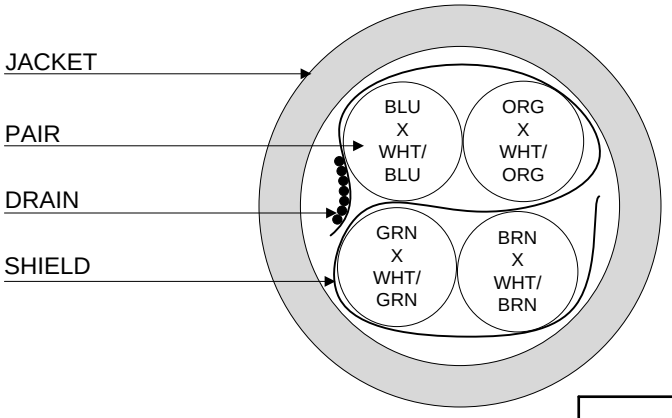
4) AGENCY APPROVALS:
NEC (UL) TYPE CMR/CMG
CEC C(UL) TYPE CMR/CMG
EU CE MARK: MEETS EU DIRECTIVE 2011/65/EU (RoHS II)

5) APPLICATION:
SHIELDED FLEXIBLE PATCH/JUMPER CABLE TO SUPPORT SCREENED 568.2-D CATEGORY 6a APPLICATIONS.
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 -- FT4/IEEE 1202 -- CAT 6a 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



Created 08/07/15	DRAWN:	SGH 02/22/21	QUABBIN® WIRE & CABLE
REV. 07	CHECKED:	ZRS 03/02/21	

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

DRAWING # QWC0091 | 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.	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	$1 \le f < 10$ MHz $10 \le f < 20$ MHz $20 \le f \le 500$ MHz	20 + 5 LOG(f) dB MIN 25 dB MIN 25 – 8.6 LOG(f/20) dB MIN
PS NEXT	$1 \le f \le 500$ MHz	42.3 – 15 LOG (f/100) dB MIN
NEXT	$1 \le f \le 500$ MHz	44.3 – 15 LOG (f/100) dB MIN
PS ACRF	$1 \le f \le 500$ MHz	24.8 – 20 LOG(f/100) dB MIN
ACRF	$1 \le f \le 500$ MHz	27.8 – 20 LOG(f/100) dB MIN
INSERTION LOSS	$1 \le f \le 500$ MHz	$1.5[1.82\sqrt{(f)} + 0.0091(f) + 0.25/\sqrt{(f)}]$ dB MAX
DELAY	$1 \le f \le 500$ MHz	$534 + 36/\sqrt{(f)}$ ns MAX
DELAY SKEW	$1 \le f \le 500$ MHz	<45 ns
PS ANEXT LOSS (6 AROUND 1)	$1 \le f \le 500$ MHz	62.5 – 15 LOG (f/100) dB 50 - 500 MHz 67 dB 1 - 50 MHz
PS AACRF (6 AROUND 1)	$1 \le f \le 500$ MHz	38.2 – 20 LOG(f/100) dB, 67 dB MIN
TCL	$1 \le f \le 500$ MHz	30 – 10 LOG(f/100) dB MIN, 40 dB MIN
ELTCTL	$1 \le f \le 30$ MHz	35 – 20 LOG(f) dB MIN
VELOCITY OF PROPAGATION	68%	

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