QWC0034

1) CONSTRUCTION:

		NOM. DIA.
CONDUCTOR:	26 AWG 7/34 STRANDED TINNED COPPER	.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 TINNED COPPER DRAIN WIRE IN CONTACT WITH METALIZED SURFACE SHALL BE APPLIED OVER THE CABLE CORE.	.208"
JACKET:	POLYVINYLCHLORIDE, **(COLOR, PER CHART 1)**, .024" NOM. WALL THICKNESS	
	OVERALL CABLE DIAMETER	.235" NOM. .240" MAX. (BY PI TAPE)

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
2930	BLACK
2931	BROWN
2932	RED
2933	ORANGE
2934	YELLOW
2935	GREEN
2936	BLUE
2937	VIOLET
2938	GRAY
2939	WHITE
2940	BEIGE
2941	PINK

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

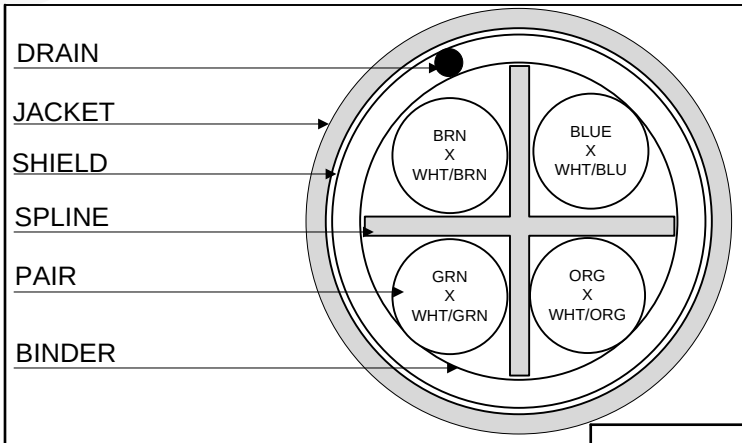
4) AGENCY APPROVALS:
NEC (UL) TYPE CMR/CMG
CEC C(UL) TYPE CMR/CMG

5) APPLICATION:
SHIELDED FLEXIBLE PATCH/JUMPER CABLE TO SUPPORT SCREENED 568.2-D CATEGORY 6 APPLICATIONS.
RoHS COMPLIANT MATERIALS.

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)** -- TYPE CMR C(UL)US CMG 4 PR 26 AWG SHIELDED 75C -- FT4/IEEE 1202 -- CAT 6 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



Created 03/19/12	DRAWN:	SGH 01/22/21	QUABBIN® WIRE & CABLE
REV. 04	CHECKED:	ZRS 01/27/21	

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

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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, NOM.	42.6 Ω/1,000' (14 Ω/100m)

NOTE: TESTING FOR THE FOLLOWING IS CONDUCTED OFF THE REEL. (FOR 100m OF CABLE)

IMPEDANCE, NOM.	100 ± 15 Ω 1 – 250 MHz	
IMPEDANCE, SMOOTHED	100 ± 10 Ω TYPICAL 5 – 250 MHz	
RETURN LOSS	$1 \le f < 10$ MHz	$20 + 5 \log (f)$ dB MIN
	$10 \le f < 20$ MHz	25 dB MIN
	$20 \le f \le 250$ MHz	$25 - 8.6 \log(f/20)$ dB MIN
PS NEXT	$1 \le f \le 250$ MHz	$42.3 - 15 \log(f/100)$ dB MIN
NEXT	$1 \le f \le 250$ MHz	$44.3 - 15 \log(f/100)$ dB MIN
PSACRF	$1 \le f \le 250$ MHz	$24.8 - 20 \log(f/100)$ dB MIN
ACRF	$1 \le f \le 250$ MHz	$27.8 - 20 \log(f/100)$ dB MIN
INSERTION LOSS	$1 \le f \le 250$ MHz	$1.5[1.808\sqrt{f} + 0.017(f) + 0.2/\sqrt{f}]$ dB MAX
DELAY	$1 \le f \le 250$ MHz	$534 + 36/\sqrt{f}$ ns MAX
DELAY SKEW	$1 \le f \le 250$ MHz	<45ns
VELOCITY OF PROPAGATION	68%	

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