

- 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:     | LOW SMOKE ZERO HALOGEN, (COLOR, PER CHART 1), .032" NOM. WALL THICKNESS   | OVERALL CABLE DIAMETER | .265" NOM.<br>.275" MAX.<br>(BY PI TAPE) |

- 2) PHYSICAL PROPERTIES:
- |  |                  |
|--|------------------|
| TEMPERATURE RATING, MAX.                           | 75°C             |
| TEMPERATURE RATING, MIN.                           | -20°C            |
| FLAME RATING                                       | VW-1             |
| CORROSIVE GAS                                      | IEC 60754-2      |
| SMOKE EMISSION                                     | IEC 61034-1 & -2 |
| WT./M', NOM., NET.                                 | 30.1 LBS.        |
| BEND RADIUS, MIN.,<br>(STATIC, 1 BEND IN ASSEMBLY) | 1"               |

CHART 1:

QUABBIN P/N	2978	2979	2980	2981	2982	2983	2984	2985	2986	2987	2988	2989
JACKET COLOR	BLACK	BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GRAY	WHITE	BEIGE	PINK

- 3) ELECTRICAL CHARACTERISTICS:  
SEE PAGE 2

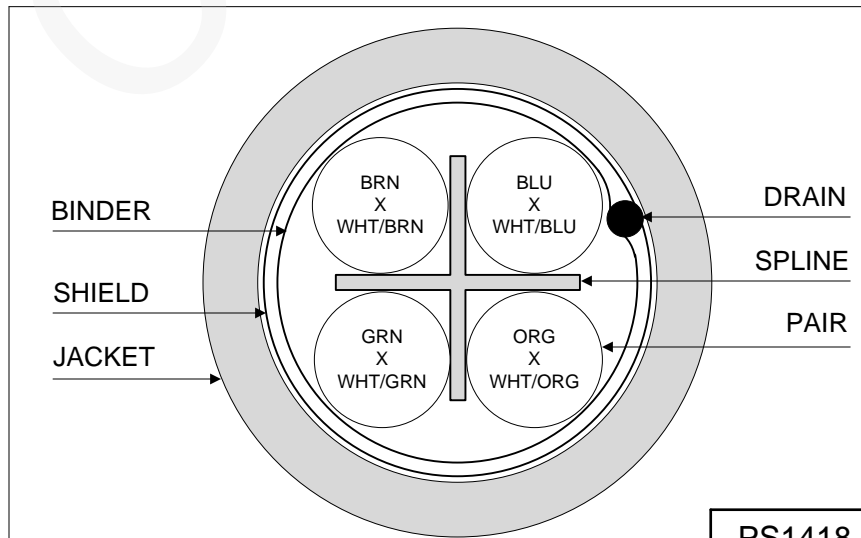
- 4) AGENCY APPROVALS:  
NEC (ETL) TYPE CMX  
CEC C(ETL) TYPE CMX

- 5) APPLICATION:  
SHIELDED FLEXIBLE PATCH/JUMPER CABLE TO SUPPORT SCREENED 568-C.2 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) -- LOW SMOKE ZERO HALOGEN TIA-568-C.2 CAT 6a -- C(ETL)US TYPE CMX 75C 26 AWG -- VW-1 -- 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



PS1418

Created 08/03/11	DRAWN: SGH 04/09/20
REV. 04	CHECKED: ZRS 04/09/20



TITLE  
4PR. SHIELDED 100 OHM PATCH CORD  
-- LSZH -- CATEGORY 6a -- TYPE CMX

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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, MAX.	42.6 $\Omega$ /1,000' (14.0 $\Omega$ /100m)

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

IMPEDANCE, NOM.	100 $\pm$ 15 $\Omega$ 1 - 100 MHz	
	100 $\pm$ 20 $\Omega$ 100 - 500 MHz	
RETURN LOSS	1 $\leq$ f < 10 MHz	20 + 5 LOG(f) dB MIN
	10 $\leq$ f < 20 MHz	25 DB MIN
	20 $\leq$ f $\leq$ 500 MHz	25 - 8.6 LOG(f/20) dB MIN
PS NEXT	1 $\leq$ f $\leq$ 500 MHz	42.3 - 15 LOG (f/100) dB MIN
NEXT	1 $\leq$ f $\leq$ 500 MHz	44.3 - 15 LOG (f/100) dB MIN
PS ACRF	1 $\leq$ f $\leq$ 500 MHz	24.8 - 20 LOG(f/100) dB MIN
ACRF	1 $\leq$ f $\leq$ 500 MHz	27.8 - 20 LOG(f/100) dB MIN
INSERTION LOSS	1 $\leq$ f $\leq$ 500 MHz	1.5[1.82 $\sqrt{f}$ + 0.0091(f) + 0.25/ $\sqrt{f}$ ] dB MAX
DELAY	1 $\leq$ f $\leq$ 500 MHz	534 + 36/ $\sqrt{f}$ ns MAX
DELAY SKEW	1 $\leq$ f $\leq$ 500 MHz	<45 ns
PS ANEXT LOSS (6 AROUND 1)	1 $\leq$ f $\leq$ 500 MHz	62.5 - 15 LOG (f/100) dB 67 dB
		50 - 500 MHz 1 - 50 MHz
PS AFEXT (6 AROUND 1)	1 $\leq$ f $\leq$ 500 MHz	38.2 - 20 LOG(f/100) dB
VELOCITY OF PROPAGATION	68%	

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