

- 1) CONSTRUCTION:
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|-------------|---|------------------------|--|
| 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.
.275" MAX.
(BY PI TAPE) |

- 2) PHYSICAL PROPERTIES:
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|--|------------------|
| 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.,
(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

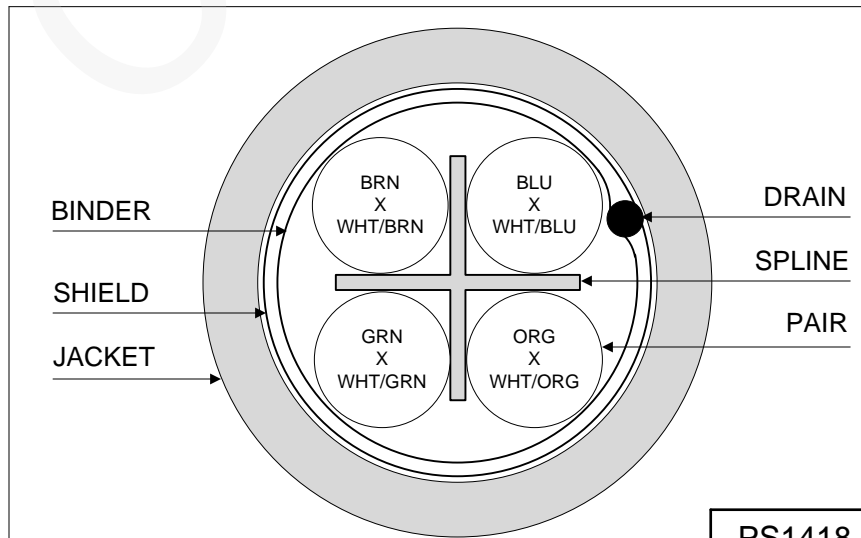
- 4) AGENCY APPROVALS:
NEC (ETL) TYPE CMX
CEC C(ETL) TYPE CMX

- 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

DRAWING # QWC0029 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 \pm 15 Ω 1 - 100 MHz	
	100 \pm 20 Ω 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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