

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. .275" MAX. (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., (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)

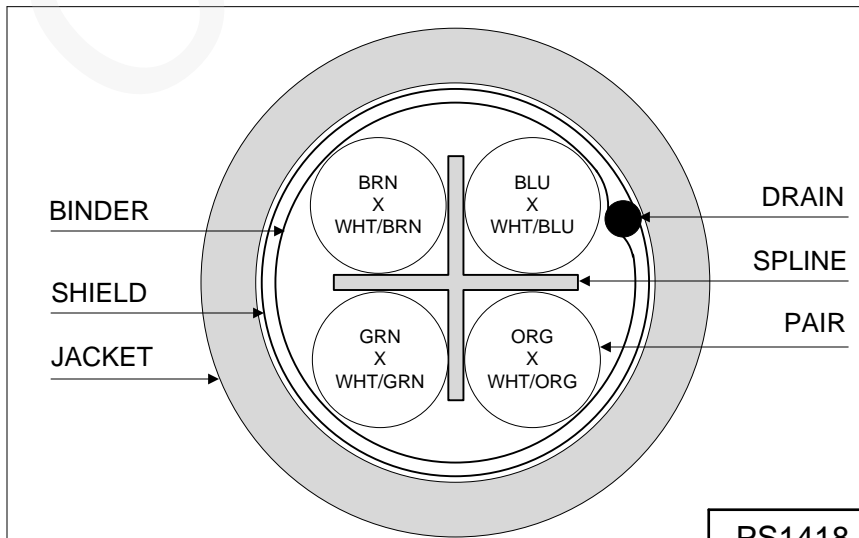
QUABBIN DATAMAX 6a F/UTP 100 OHM PATCH CORD P/N (QWC P/N PER CHART 1) -- LOW SMOKE ZERO HALOGEN TIA-568-C.2 CAT 6a -- C(ETL)US TYPE CMX 75C 26 AWG -- VW-1 -- RoHS -- (LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)

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

CUSTOMER APPROVAL:

DATE:

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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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