

1) CONSTRUCTION:

CONDUCTOR:	26 AWG 7/34 STRANDED TINNED COPPER	NOM. DIA.	.0189"
INSULATION:	FOAMED FEP, .014" NOM. WALL THICKNESS		.047" ± .001"
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS		.094"
PAIR SHIELD:	AN ALUMINUM POLYESTER ALUMINUM TAPE SHALL BE APPLIED OVER EACH PAIR		.099"
CABLE:	(4) TWISTED SHIELDED PAIRS TWISTED TOGETHER TO FORM A CABLE CORE		.209"
SHIELD:	AN OVERALL SHIELD OF 36 AWG TINNED COPPER BRAID (75% MINIMUM COVERAGE), SHALL BE APPLIED OVER THE CABLE CORE.		.232"
JACKET:	POLYURETHANE, (COLOR, PER CHART 1), .030" NOM. WALL THICKNESS		.295" NOM. ±.010"
	OVERALL CABLE DIAMETER		(BY PI TAPE)

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	60°C
TEMPERATURE RATING, MIN.	-20°C
WT./M', NOM., NET.	46.4 LBS.

CHART 1:

QUABBIN P/N	JACKET COLOR
2600	BLACK
2601	BROWN
2602	RED
2603	ORANGE
2604	YELLOW
2605	GREEN
2606	BLUE
2607	VIOLET
2608	GRAY
2609	WHITE
2610	STARLIGHT BEIGE

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

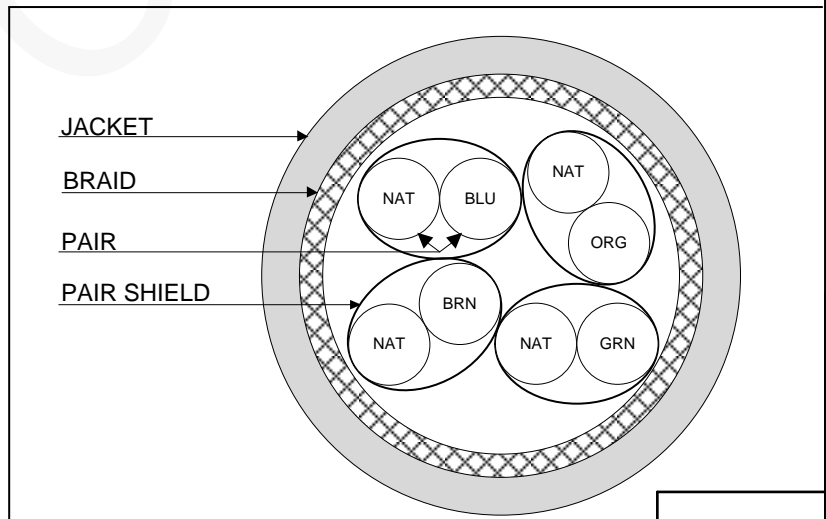
4) AGENCY APPROVALS:

5) APPLICATION:
RoHS COMPLIANT MATERIALS.

6) PRINT: NONE

7) COLOR CODE:
1. NATURAL X ORANGE
2. NATURAL X GREEN
3. NATURAL X BROWN
4. NATURAL X BLUE

8) PACKAGING:
TO BE PACKAGED AS PER QWC'S
STANDARD PACKAGING



Created 01/27/22	DRAWN: SGH 02/02/22	
REV. 02	CHECKED: JFR 2/15/22	
TITLE QUABBIN DATAMAX CAT 8 SHIELDED PAIR 26 AWG		
DRAWING#	QWC0154	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, NOM.	42.6 Ω/1000'
IMPEDANCE, NOM	100 Ω 1-2000 MHz

NOTE: TESTING FOR THE FOLLOWING IS CONDUCTED OFF THE REEL, USING 30M LENGTHS @ 20°C.

RETURN LOSS	$1 \leq f < 10 \text{ MHz}$ 20 + 5 LOG (f) dB MIN $10 \leq f < 40 \text{ MHz}$ 25 dB MIN $40 \leq f \leq 2000 \text{ MHz}$ 25 - 7 LOG(f/40) dB MIN
PS NEXT	$1 \leq f \leq 2000 \text{ MHz}$ 42.3 - 15 LOG(f/100) dB MIN
NEXT	$1 \leq f \leq 2000 \text{ MHz}$ 45.3 - 15 LOG(f/100) dB MIN
PSACRF	$1 \leq f \leq 2000 \text{ MHz}$ 36.0 - 20 LOG(f/100) dB MIN
ACRF	$1 \leq f \leq 2000 \text{ MHz}$ 39.0 - 20 LOG(f/100) dB MIN
INSERTION LOSS	$1 \leq f \leq 2000 \text{ MHz}$ 1.50 [0.540 √f + 0.0015(f) + 0.075/√f] dB MAX
DELAY	$1 \leq f \leq 2000 \text{ MHz}$ 160 + 11/√f ns MAX
DELAY SKEW	$1 \leq f \leq 2000 \text{ MHz}$ <13.5ns MAX
TCL	$1 \leq f \leq 2000 \text{ MHz}$ 20 – 15 LOG(f/100) dB MIN, 40 dB MAX
ELTCTL	$1 \leq f < 56 \text{ MHz}$ 40 – 20 LOG(f) dB MIN $56 \leq f \leq 2000 \text{ MHz}$ 5 dB MIN
PS ANEXT LOSS (6 AROUND 1)	$1 \leq f \leq 2000 \text{ MHz}$ 87.5 - 15 LOG (f/100) dB MIN, 80 dB MAX
PSAACRF	$1 \leq f \leq 2000 \text{ MHz}$ 62.2 - 20 LOG(f/100) dB MIN, 80 dB MAX
VELOCITY OF PROPAGATION	70%

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