QWC0108

1) CONSTRUCTION:

		NOM. DIA.
CONDUCTOR:	26 AWG 7/34 STRANDED TINNED COPPER	.019"
INSULATION:	HIGH DENSITY POLYETHYLENE, .011" NOM. WALL THICKNESS	.0405" ± .001"
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS	.081"
CABLE:	(4) TWISTED PAIRS TWISTED TOGETHER	.177"
SHIELD:	AN ALUMINUM POLYESTER ALUMINUM FOIL SHIELD (100% COVERAGE) WITH 7 ENDS OF 34 AWG TINNED COPPER DRAIN WIRE IN CONTACT WITH THE METALIZED SURFACE SHALL BE APPLIED OVER THE CABLE CORE.	.180"
JACKET:	LOW SMOKE ZERO HALOGEN, **(COLOR, PER CHART 1)**, .023" 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.	23.4 LBS.

CHART 1:

QUABBIN P/N	JACKET COLOR
2279	BLACK
2280	RED
2281	ORANGE
2282	YELLOW
2283	GREEN
2284	BLUE
2285	VIOLET
2286	GRAY
2287	WHITE

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

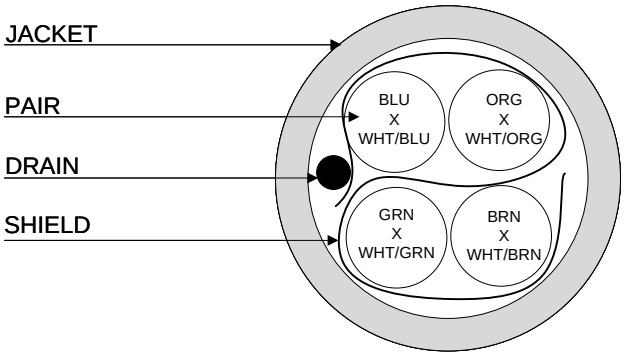
4) AGENCY APPROVALS:
NEC (UL) TYPE CM-ST1
CEC C(UL) TYPE CM

5) APPLICATION:
SHIELDED FLEXIBLE PATCH/JUMPER CABLE TO SUPPORT SCREENED 568.2-D CATEGORY 6a APPLICATIONS.
RoHS COMPLIANT MATERIALS. PATENT NO. US 9,355,759 B2.

6) PRINT: (WHITE INK ON BLACK JACKET, ALL OTHERS BLACK INK)
QUABBIN DATAMAX LSZH 6a F/UTP PATCH CORD P/N **(QWC P/N PER CHART 1)** -- PATENT NO. US 9,355,759 B2 -- CM C(UL)US CM-ST1 26 AWG 75C -- RoHS -- **(LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)**

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

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



Created 06/07/18	DRAWN:	BMD 06/20/23	QUABBIN® WIRE & CABLE
REV. 05	CHECKED:	ZRS 06/30/23	

TITLE
DATAMAX LSZH DUAL RATED 26 AWG CAT 6a F/UTP PATCH CABLE -- TYPE CM-ST1

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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.	14 Ω/100m (42.6 Ω/1,000')

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

IMPEDANCE, NOM.	100 ± 15 Ω 1 - 100 MHz 100 ± 20 Ω 100 - 500 MHz	
RETURN LOSS	1 ≤ f < 10 MHz 10 ≤ f < 20 MHz 20 ≤ f ≤ 500 MHz	20 + 5 LOG(f) dB MIN 25 dB MIN 25 - 8.6 LOG(f/20) dB MIN
PS NEXT	1 ≤ f ≤ 500 MHz	42.3 - 15 LOG(f/100) dB MIN
NEXT	1 ≤ f ≤ 500 MHz	44.3 - 15 LOG(f/100) dB MIN
PS ACRF	1 ≤ f ≤ 500 MHz	24.8 - 20 LOG(f/100) dB MIN
ACRF	1 ≤ f ≤ 500 MHz	27.8 - 20 LOG(f/100) dB MIN
INSERTION LOSS	1 ≤ f ≤ 500 MHz	1.5[1.82$\sqrt{}$(f) + 0.0091(f) + 0.25/$\sqrt{}$(f)] dB MAX
DELAY	1 ≤ f ≤ 500 MHz	534 + 36/$\sqrt{}$(f) ns MAX
DELAY SKEW	1 ≤ f ≤ 500 MHz	<45 ns
PS ANEXT LOSS (6 AROUND 1)	1 ≤ f ≤ 500 MHz	62.5 - 15 LOG(f/100) dB 50 - 500 MHz 67 dB 1 - 50 MHz
PS AFEXT (6 AROUND 1)	1 ≤ f ≤ 500 MHz	38.2 - 20 LOG(f/100) dB, 67 dB MIN
TCL	1 ≤ f ≤ 500 MHz	30 - 10 LOG(f/100) dB MIN, 40 dB MIN
ELTCTL	1 ≤ f ≤ 30 MHz	35 - 20 LOG(f) dB MIN
VELOCITY OF PROPAGATION	68%	

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DATAMAX LSZH DUAL RATED 26 AWG CAT 6a F/UTP PATCH CABLE -- TYPE CM-ST1

DRAWING # QWC0108 2 of 2

CUSTOMER APPROVAL: **DATE:**