

1) CONSTRUCTION:

CONDUCTOR:	26 AWG 7/34 STRANDED TINNED COPPER	NOM. DIA.	.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
2025	BLACK
2026	RED
2027	ORANGE
2028	YELLOW
2029	GREEN
2030	BLUE
2031	VIOLET
2032	GRAY
2033	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 6 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 6 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:

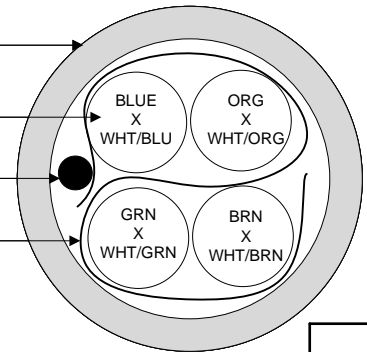
TO BE PACKAGED AS PER QWC'S STANDARD PACKAGING

JACKET

PAIR

DRAIN

SHIELD



CUSTOMER APPROVAL:

DATE:

Created 09/10/18	DRAWN: BMD 05/10/23
REV. 04	CHECKED: ZRS 05/10/23



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


DRAWING #	QWC0109	1 of 2
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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.	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 - 250 MHz
IMPEDANCE, SMOOTHED	100 ± 10 Ω TYPICAL 5 - 250 MHz
RETURN LOSS	$1 \leq f \leq 10 \text{ MHz}$ 20 + 5 LOG(f) dB MIN $10 \leq f < 20 \text{ MHz}$ 25 dB MIN $20 \leq f \leq 250 \text{ MHz}$ 25 - 8.6 LOG($f/20$) dB MIN
PS NEXT	$1 \leq f \leq 250 \text{ MHz}$ 42.3 - 15 LOG ($f/100$) dB MIN
NEXT	$1 \leq f \leq 250 \text{ MHz}$ 44.3 - 15 LOG ($f/100$) dB MIN
PS ACRF	$1 \leq f \leq 250 \text{ MHz}$ 24.8 - 20 LOG($f/100$) dB MIN
ACRF	$1 \leq f \leq 250 \text{ MHz}$ 27.8 - 20 LOG($f/100$) dB MIN
INSERTION LOSS	$1 \leq f \leq 250 \text{ MHz}$ 1.5[1.808 √(f) + 0.017(f) + 0.20/√(f)] dB MAX
DELAY	$1 \leq f \leq 250 \text{ MHz}$ 534 + 36/√(f) ns MAX
DELAY SKEW	$1 \leq f \leq 250 \text{ MHz}$ <45 ns
TCL	$1 \leq f \leq 250 \text{ MHz}$ 30 - 10 LOG($f/100$)
ELTCTL	$1 \leq f \leq 30 \text{ MHz}$ 35 - 20 LOG(f)
VELOCITY OF PROPAGATION	68%

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DRAWING #		QWC0109
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