

1) CONSTRUCTION:

CONDUCTOR:	26 AWG 7/34 STRANDED TINNED COPPER	NOM. DIA.	.019"
INSULATION:	HIGH DENSITY POLYETHYLENE, .011" NOM. WALL THICKNESS		.0405"
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		.230" NOM. (BY PI TAPE)

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	75°C
TEMPERATURE RATING, MIN.	-20°C
WT./M', NOM., NET.	23.2 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-LS
CEC C(UL) TYPE CM-LS

5) APPLICATION:

SHIELDED FLEXIBLE PATCH/JUMPER CABLE TO SUPPORT SCREENED 568-C.2 CATEGORY 6a APPLICATIONS. RoHS COMPLIANT MATERIALS. PATENT PENDING.

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 PENDING -- C(UL)US TYPE CM-LS 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:

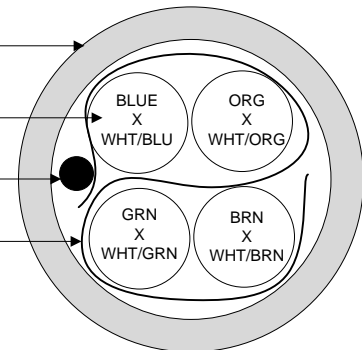
TO BE PACKAGED AS PER QWC'S STANDARD PACKAGING

JACKET

PAIR

DRAIN

SHIELD



Created 06/07/18	DRAWN: SGH 01/05/21
REV. 03	CHECKED: ZRS 01/11/21



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

DRAWING # QWC0108

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'

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	<table> <tr> <td>$1 \leq f < 10$ MHz</td> <td>20 + 5 LOG(f) dB MIN</td> </tr> <tr> <td>$10 \leq f < 20$ MHz</td> <td>25 dB MIN</td> </tr> <tr> <td>$20 \leq f \leq 500$ MHz</td> <td>25 - 8.6 LOG($f/20$) dB MIN</td> </tr> </table>	$1 \leq f < 10$ 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
$1 \leq f < 10$ 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)	<table> <tr> <td>$1 \leq f \leq 500$ MHz</td> <td>62.5 - 15 LOG($f/100$) dB</td> <td>50 - 500 MHz</td> </tr> <tr> <td></td> <td>67 dB</td> <td>1 - 50 MHz</td> </tr> </table>	$1 \leq f \leq 500$ MHz	62.5 - 15 LOG($f/100$) dB	50 - 500 MHz		67 dB	1 - 50 MHz
$1 \leq f \leq 500$ MHz	62.5 - 15 LOG($f/100$) dB	50 - 500 MHz					
	67 dB	1 - 50 MHz					
PS AFEXT (6 AROUND 1)	$1 \leq f \leq 500$ MHz 38.2 - 20 LOG($f/100$) dB, 67 dB MIN						
TCL	$1 \leq f \leq 500$ MHz 30 - 10 LOG($f/100$) dB MIN, 40 dB MIN						
ELTCTL	$1 \leq f \leq 30$ MHz 35 - 20 LOG(f) dB MIN						
VELOCITY OF PROPAGATION	68%						

Created 06/07/18	DRAWN: SGH 01/05/21	
REV. 03	CHECKED: ZRS 01/11/21	
TITLE DATAMAX LSZH DUAL RATED 26 AWG CAT 6a F/UTP PATCH CABLE – TYPE CM-LS		
DRAWING #		QWC0108
		2 of 2

CUSTOMER APPROVAL:

DATE: