

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		.244" NOM.

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	75°C
TEMPERATURE RATING, MIN.	-20°C
WT./M', NOM., NET.	25.3 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

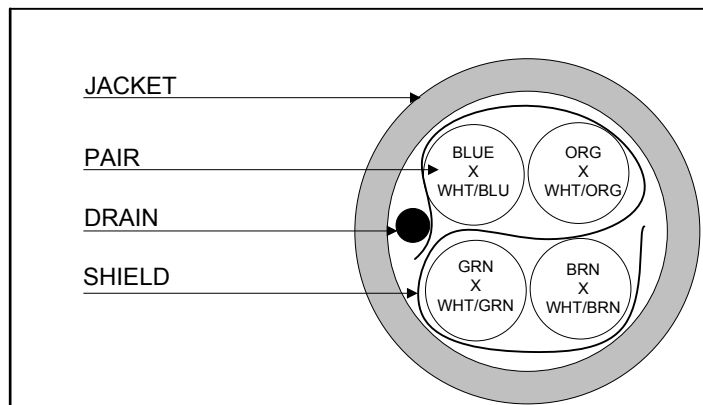
4) AGENCY APPROVALS:
NEC (UL) TYPE CM-LS
CEC C(UL) TYPE CM-LS

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



CUSTOMER APPROVAL:


DATE:

Created 06/07/18	DRAWN: 10/18/18 SGH ZRS	
REV. 02	CHECKED: 10/18/18	
TITLE DATAMAX LSZH DUAL RATED 26 AWG CAT 6a F/UTP PATCH CABLE – TYPE CM-LS		
DRAWING #		1 of 2

3) ELECTRICAL CHARACTERISTICS: (FOR 100m OF CABLE)

CAPACITANCE, MUTUAL, NOM.	13.5 PF/FT. AT 1 MHz	
DIELECTRIC WITHSTANDING, MIN.	1500V RMS	
VOLTAGE RATING, MAX.	300V	
D.C. RESISTANCE, MAX.	14.0 Ω	
IMPEDANCE, NOM.	100 \pm 15 Ω 1 - 100 MHz	
	100 \pm 20 Ω 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 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%	

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.

Created 06/07/18	DRAWN: ^{SGH} 10/18/18	
REV. 02	CHECKED: ^{ZRS} 10/18/18	
TITLE		
DATAMAX LSZH DUAL RATED 26 AWG CAT 6a F/UTP PATCH CABLE – TYPE CM-LS		
DRAWING #	QWC0108	2 of 2

CUSTOMER APPROVAL:

DATE: