



**THE DATASHEET OF  
HLCD-20-03.44-TRS-TRS-1**



# HIGH-SPEED HERMAPHRODITIC CABLE

(0.50 mm) .0197" PITCH • HLCD SERIES



**HLCD**  
**Mates:**  
 LSHM

## SPECIFICATIONS

**Cable:**  
 38 AWG 50 Ω coax or  
 36 AWG 50 Ω high-temp coax  
**Signal Routing:**  
 50 Ω Single-Ended  
**Plating:**  
 10 μ" (0.25 μm) Gold on  
 contact, Matte Tin on tail  
**Operating Temp Range:**  
 -25 °C to +105 °C  
 -40 °C to +125 °C (-T option)  
**Current Rating:**  
 0.9 A per pin  
 (2 pins powered)

HLCD	POSITIONS PER ROW	WIRE LENGTH	END NO. 1	END 1 OPTION	END NO. 2	END 2 OPTION	WIRING OPTION	CABLE OPTION
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**-05, -10,  
 -20, -30,  
 -40, -50**  
 (Standard sizes)

**-"XX.XX"**  
 = Wire Length in Inches (43.7 mm) 01.72" minimum

**-TR**  
 = Vertical, Top Right

**-TL**  
 = Vertical, Top Left

**-BR**  
 = Vertical, Bottom Right

**-BL**  
 = Vertical, Bottom Left

**-TD**  
 = Right-angle, Top

**-TH**  
 = Reversed Right-angle, Top

**-BD**  
 = Right-angle, Bottom

**-BH**  
 = Reversed Right-angle, Bottom

Leave blank for no screw down. Screw down not available for -TD, -TH, -BD & -BH options.

**S**  
 = Screw down in PCB

**-TR**  
 = Vertical, Top Right

**-TL**  
 = Vertical, Top Left

**-BR**  
 = Vertical, Bottom Right

**-BL**  
 = Vertical, Bottom Left

**-TD**  
 = Right-angle, Top

**-TH**  
 = Reversed Right-angle, Top

**-BD**  
 = Right-angle, Bottom

**-BH**  
 = Reversed Right-angle, Bottom

Leave blank for no screw down. Screw down not available for -TD, -TH, -BD & -BH options.

**S**  
 = Screw down in PCB

**-1**  
 = Pin 1 to Pin 1

**-2**  
 = Pin 1 to Pin 2

**-3**  
 = Pin 1 to Pin N-1

**-4**  
 = Pin 1 to Pin N

Leave blank for 38 AWG coax

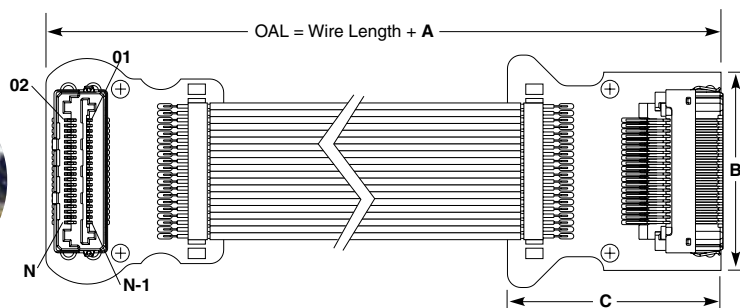
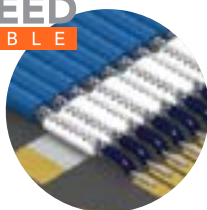
**-T**  
 = 36 AWG, high-temp coax

END TO END	A
Vertical to Vertical	(21.84) .860
Vertical to Right-angle	(25.35) .998
Vertical to Reversed Right-angle	
Right-angle to Right-angle	(28.85) 1.136
Right-angle to Reversed Right-angle	
Reversed Right-angle to Reversed Right-angle	

POSITIONS PER ROW	B	
	XR, XL	XH, XD
-05	(9.65) .380	(10.92) .430
-10	(12.14) .478	(13.41) .528
-20	(17.15) .675	(18.42) .725
-30	(24.77) .975	(26.04) 1.025
-40	(32.39) 1.275	(33.66) 1.325
-50	(40.01) 1.575	(41.28) 1.625

END OPTION	C	D
XL, XR	(16.51) .650	(6.02) .237
XD	(20.02) .788	(6.71) .264
XH		

**EYE SPEED**  
 CABLE



END NO. 1 (-TR SHOWN)

END NO. 2 (-TD SHOWN)

**Notes:**  
 Cable lengths longer than 40.00" (1 meter) are not supported with S.I. test data.

Design your full cable assembly with Samtec's High-Speed Cable Solutionator® at [www.samtec.com/cablebuilder](http://www.samtec.com/cablebuilder)

Some lengths, styles and options are non-standard, non-returnable.

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ [View HLCD-20-03.44-TRS-TRS-1 on WIN SOURCE](#)
- ⊖ [Samtec Inc. Information](#)

## Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management