

# 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

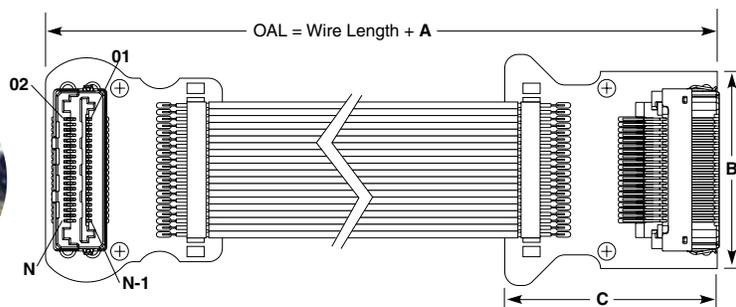
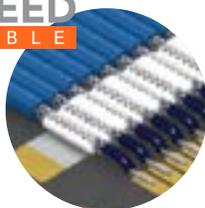
-T  
= 36 AWG,  
high-temp  
coax

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.