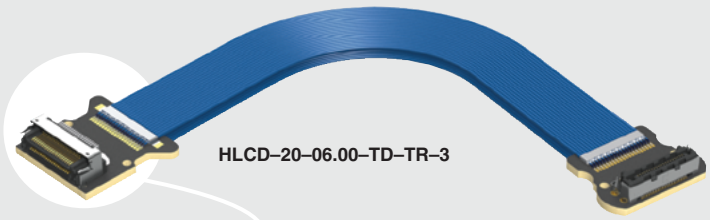
samtec

RAZOR™ BEAM SYSTEM




**(0.50 mm) .0197"**

**HLCD SERIES**

# HIGH-SPEED HERMAPHRODITIC CABLE

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?HLCD

**Cable:**
38 AWG 50 Ω coax cable
**Signal Routing:**
50 Ω Single-Ended
**Plating:**
Au over 50 µ" (1.27 µm) Ni
**Operating Temp Range:**
-25 °C to +105 °C
**Current Rating:**
0.9 A per pin
(2 pins powered)
**SI Performance:**
Testing Now!
**RoHS Compliant:**
Yes

## RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality

FILE NO. E111594

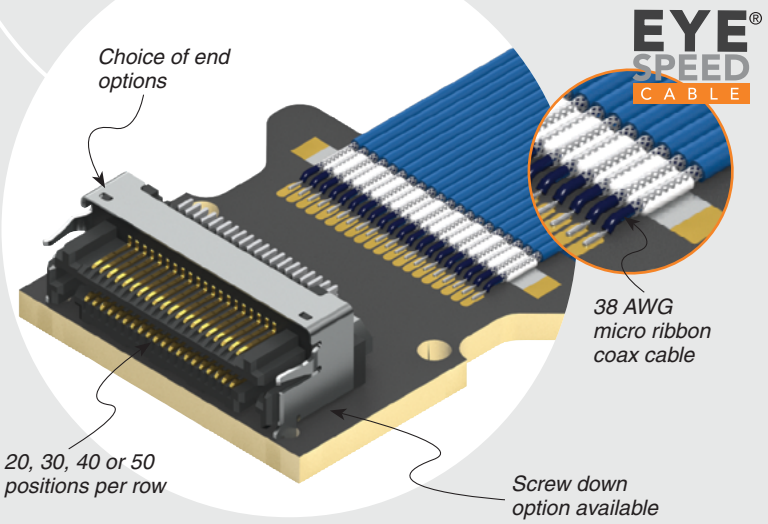
**Notes:**
Cable lengths longer than 40.00" (1 meter) are not supported with S.I. test data.

Design your High-Speed Cable with Samtec's High-Speed Cable Solutionator® at www.samtec.com/hdr

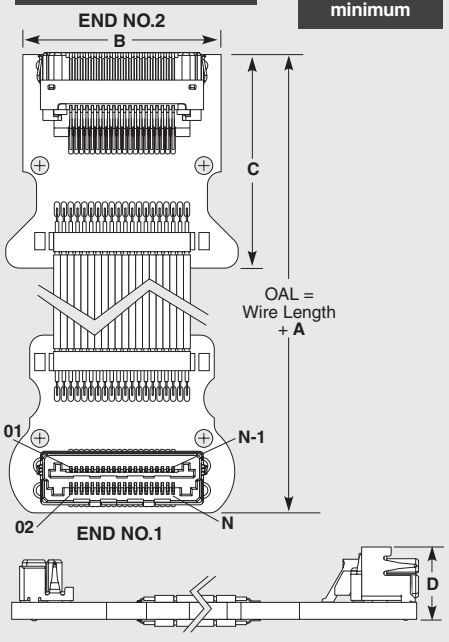
Some lengths, styles and options are non-standard, non-returnable.

**Mates with:**
LSHM

RUGGEDIZED BY SAMTEC
• Screw downs




| HLCD | POSITIONS PER ROW | WIRE LENGTH | END NO. 1 | END 1 OPTION | END NO. 2 | END 2 OPTION | WIRING OPTION |
|---|---|---|---|---|---|---|---|
| | –20, –30, –40, –50 (Standard sizes) | –"XX.XX" = Wire Length in Inches (43.7 mm) 01.72" minimum | –TR = Vertical, Top Right<br>–TL = Vertical, Top Left<br>–BR = Vertical, Bottom Right<br>–BL = Vertical, Bottom Left<br>–TD = Right-angle, Top<br>–TH = Reversed Right-angle, Top<br>–BD = Right-angle, Bottom<br>–BH = Reversed Right-angle, Bottom | Leave blank for no screw down. Screw down not available for –TD TH, –BD & –BH options.<br>S = Screw down in PCB | –TR = Vertical, Top Right<br>–TL = Vertical, Top Left<br>–BR = Vertical, Bottom Right<br>–BL = Vertical, Bottom Left<br>–TD = Right-angle, Top<br>–TH = Reversed Right-angle, Top<br>–BD = Right-angle, Bottom<br>–BH = Reversed Right-angle, Bottom | Leave blank for no screw down. Screw down not available for –TD TH, –BD & –BH options.<br>S = Screw down in PCB | –1 = Pin 1 to Pin 1<br>–2 = Pin 1 to Pin 2<br>–3 = Pin 1 to Pin N-1<br>–4 = Pin 1 to Pin N |




END NO. 1 (–TR SHOWN)  END NO. 2 (–TD SHOWN)

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

| NO. OF POSITIONS | B | |
|---|---|---|
| | XR, XL | XH, XD |
| –020 | (22.23) .875 | (18.42) .725 |
| –030 | (24.77) .975 | (26.04) 1.025 |
| –040 | (32.39) 1.275 | (33.66) 1.325 |
| –050 | (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 | | |

*Due to technical progress, all designs, specifications and components are subject to change without notice.*



*All parts within this catalog are built to Samtec's specifications.*
*Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.*