

# HIGH-SPEED HERMAPHRODITIC CABLE

(0.50 mm) .0197" PITCH • HLCD SERIES



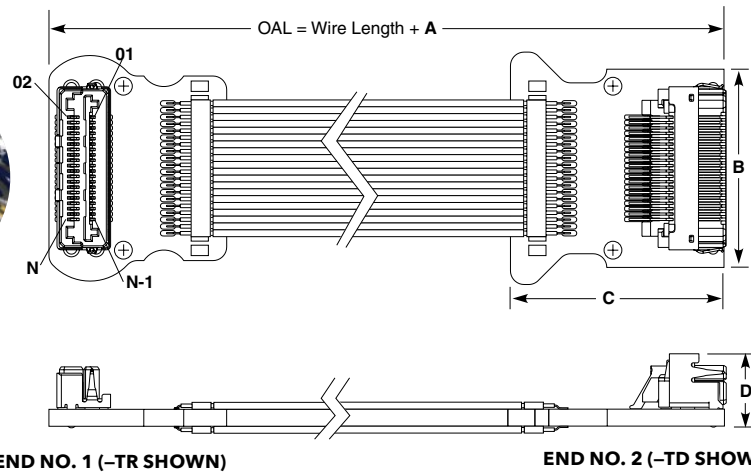
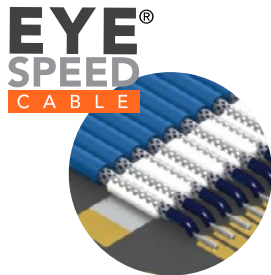
**HLCD**  
**Mates:**  
 LSHM

## SPECIFICATIONS

**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)

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

| 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                   |               |
| Right-angle to Reversed Right-angle          | (28.85) 1.136 |
| Reversed Right-angle to Reversed Right-angle |               |



| POSITIONS PER ROW | B                |                  |
|-------------------|------------------|------------------|
|                   | XR, XL           | XH, XD           |
| -20               | (22.23)<br>.875  | (18.42)<br>.725  |
| -30               | (24.77)<br>.975  | (26.04)<br>1.025 |
| -40               | (32.39)<br>1.275 | (33.66)<br>1.325 |
| -50               | (40.01)<br>1.575 | (41.28)<br>1.625 |

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

**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 Builder at [www.samtec.com/cablebuilder](http://www.samtec.com/cablebuilder)  
 Some lengths, styles and options are non-standard, non-returnable.