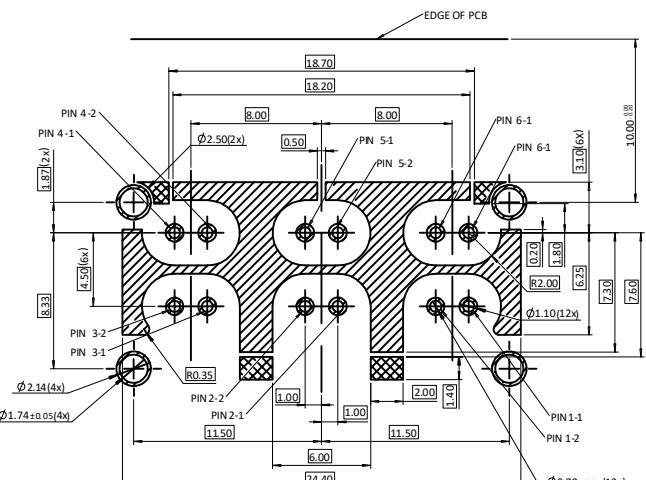


APPROVED: \_\_\_\_\_

DATE: \_\_\_\_\_ TITLE: \_\_\_\_\_

Rev	AWO #	Description	Date	Appr
-		RELEASED	7/17/24	
A		UPDATE DRAWING	8/25/25	WY/RC

D



RECOMMENDED PCB LAYOUT

**C SPECIFICATIONS:****Material:**

Coding Housing: PA, Color: See Page2

Inner Housing: Thermoplastic, Color: Black

Contacts: Copper Alloy

Outer Contact: Zinc Alloy, 80–200 $\mu$  Tin PlatedGround Pin: Copper Alloy, 80–160 $\mu$  Tin Plated**Contact Plating:**Contact area: 6 $\mu$  Gold PlatedSolder tails area: 80–160 $\mu$  Tin PlatedUnderplate: 80–160 $\mu$  Nickel underplate overall**Electrical:**

Voltage rating: 60V DC Max

Current rating: 1.5A max

Contact resistance: 10 Mohms max

Insulation resistance: 100 Mohms min

Dielectric withstanding voltage: 250V rms

Impedance: 100 $\Omega$ 

Frequency Range: DC to 10 GHz

Return loss:  $\geq$ 30 dB, 0.01 GHz to 3 GHz $\geq$ 25 dB, 3 GHz to 6 GHz $\geq$ 20 dB, 6 GHz to 10 GHz $\geq$ 15 dB, 10 GHz to 15 GHz $\geq$ 12 dB, 15 GHz to 20 GHz**Mechanical:**

Durability: 25 Cycles

Engagement force: 90N max

Retention force: 110N min

Coding efficiency: 225N Min

**Environmental:**

Thermal shock &amp; Mechanical shock &amp; Humidity &amp; Vibration:

USCAR-2 &amp; USCAR-17

DIN EN 60512 &amp; DIN IEC 60068

**Temperature Rating:**

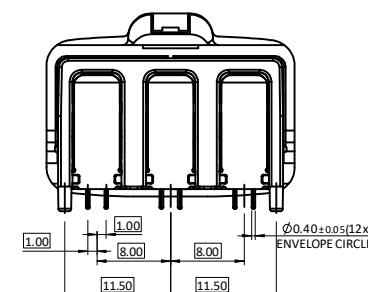
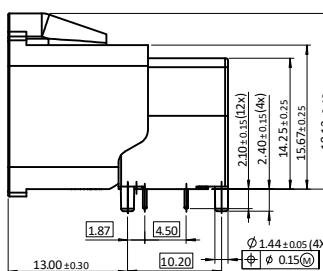
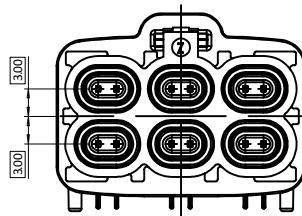
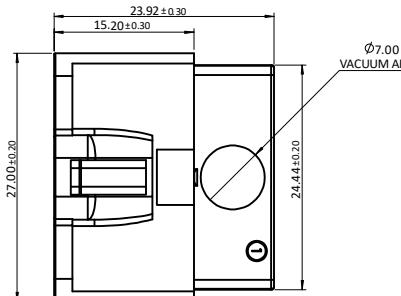
Operating temperature: -40°C to +105°C

**Packing:**

Standard: 70 pcs in tape &amp; reel

**Environmental:**

Lead free, RoHS compliant



## PACKAGED ON TAPE &amp; REEL

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS  
ARE MILLIMETERS. TOLERANCES: EXCEPT AS NOTED  
X  $\pm$  0.50  
XX  $\pm$  0.30  
.XX  $\pm$  0.20  
ANGLE  $\pm$  5°

DRAWN LH 7/17/24

CHECKED JL 7/17/24

APPROVED

**ADAM**  
**TECH**

 909 Rahway Avenue,  
 Union, NJ 07083  
 Phone: 908-687-5000  
 adam-tech.com

 TITLE: HIGH-SPEED MODULAR TWISTED-PAIR DATA  
 RIGHT ANGLE PLUG 2X3, 56Gbps

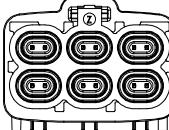
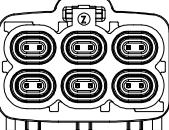
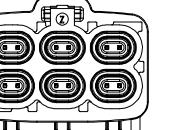
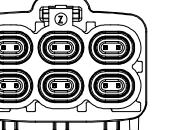
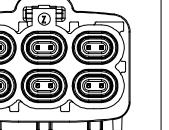
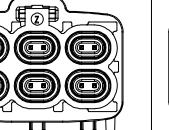
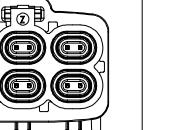
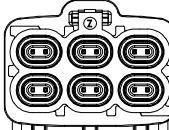
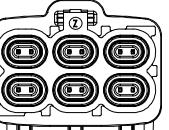
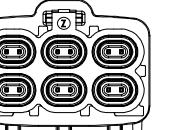
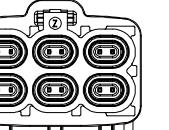
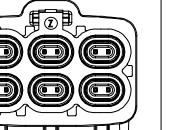
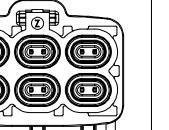
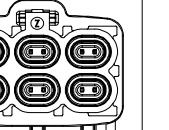
 SIZE X PART NO. HTX-06XDBLC1R REV. A  
 REF: S00013T SCALE: NTS SHEET 1 OF 2

APPROVED: \_\_\_\_\_

DATE: \_\_\_\_\_ TITLE: \_\_\_\_\_

SEE SHT 1 OF 2 FOR REVISION

HTX-06XDBLC1R

Coding	A	B	C	D	E	F	G
Plug							
Color	Jet Black	Pure White	Light Blue	Claret Violet	May Green	Nut Brown	Platinum Grey
Coding	H	J	K	L	M	O	Z
Plug							
Color	Light Pink	Beige	Curry	Yellow Green	Pastel Orange	Light Green	Water Blue

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS  
ARE MILLIMETERS. TOLERANCES: EXCEPT AS NOTEDX  $\pm$  0.50  
MM X  $\pm$  0.30 ANGLE  $\pm$  5°  
.XX  $\pm$  0.20

DRAWN LH 7/17/24

CHECKED JL 7/17/24

APPROVED \_\_\_\_\_

**ADAM  
TECH**909 Rahway Avenue,  
Union, NJ 07083  
Phone: 908-687-5000  
adam-tech.comTITLE: HIGH-SPEED MODULAR TWISTED-PAIR DATA  
RIGHT ANGLE PLUG 2X3, 56Gbps

SIZE X PART NO. HTX-06XDBLC1R REV. A

REF: S00013T SCALE: NTS SHEET 2 OF 2

## CONFIDENTIAL AND PROPRIETARY

© Adam Tech. All rights reserved. This document contains confidential and proprietary information belonging to Adam Tech. It is provided solely for design and reference purposes by authorized parties. Any reproduction, distribution, display, or disclosure to third parties, in whole or in part, without the prior written consent of Adam Tech, is strictly prohibited. Adam Tech retains all rights, including copyright, trademark, trade secret, and all other intellectual property rights worldwide.