



BALLON NUMBER	PART NUMBER	DESCRIPTION
1	AT-CTF-PCB-050	50Pin Fixture-Output PCB
2	ARDUINO-DUE	Main Microcontroller
3	ARDUINO-DUE	Test Signal Generator
4	ATF-CTF-005-050	Test Fixture MAX 0.5mm x 50pin
5	ATF-CTF-005-050	Test Fixture MAX 0.5mm x 50pin
6	DUT-CABLE	Test Fixture MAX 0.5mm x 50pin

NOTES

1. PINS NUMBERED 1–50. TESTS CAN RUN ON PARTIAL OR FULL RANGE.
2. OPEN = NOT CONNECTED. SHORT = UNEXPECTED CONNECTION.
3. SIGNAL CONTROLLER ↔ MAIN CONTROLLER COMMUNICATES VIA I²C.
4. CONNECT DUT CABLE ↔ FIXTURE PROPERLY BEFORE TESTING.
5. UI DISPLAYS RESULTS IN REAL-TIME: GREEN = PASS, ORANGE/RED = OPEN, RED = SHORT.
6. CONTROLLERS ARE ARDUINO-COMPATIBLE. FIRMWARE MUST BE LOADED.
7. LOGS INCLUDE TIMESTAMPED TEST RESULTS. USE FOR DIAGNOSTICS.
8. PCB TRACES ARE NOT SHOWN IN THIS VIEW.

ISO 9001:2015 Certified

www.zaxisconnector.com

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Z-AXIS CONNECTOR CO. ANY
REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF
Z-AXIS CONNECTOR CO. IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS TOLERANCES: FRACTIONAL ±1/32 ANGULAR: MACH ±1/2° BEND ± TWO PLACE DECIMAL ±.25 THREE PLACE DECIMAL ±.127 FOUR PLACE DECIMAL ±.0051	DRAWN	NAME	DATE	Z-AXIS CONNECTOR CO. TITLE: <div>Automatic Cable Tester</div>		
			CHECKED	JDG	10/2/25			
			ENG APPR.					
			MFG APPR.					
			Q.A.					
		INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS:			SIZE C	DWG. NO. ATF-CTF-ASM-000-2D	REV -
		MATERIAL See Notes						
		FINISH NONE						
NEXT ASSY	USED ON							
APPLICATION		DO NOT SCALE DRAWING	SCALE:				SHEET 1 OF 1	