

Cutting Mechanism Test Cable

Model Number: THRSLTCA1221

Overview

The Cutting Mechanism Test Cable provides reliable power and communication interfacing between the system controller and the cutting subsystem. Supporting RS-232, CAN bus, and 24V DC power lines, it enables efficient diagnostics and integration testing of the cutting mechanism.

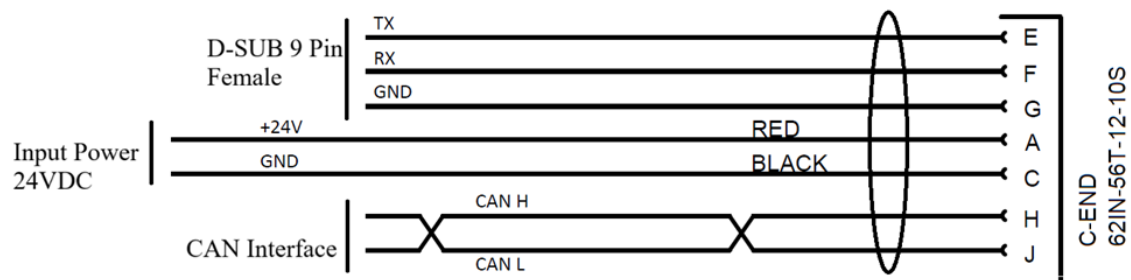
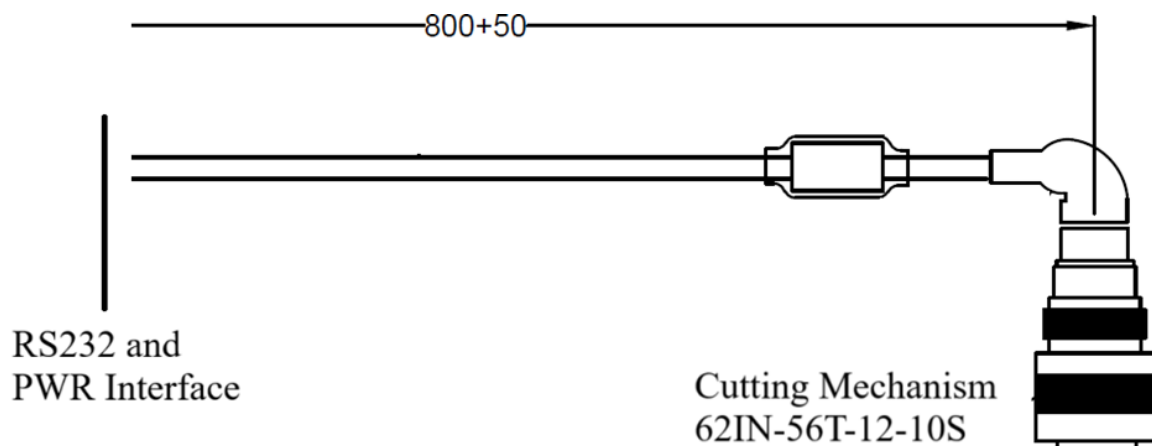
Proven in the **UXOR project supplied to the Indian Air Force (IAF)**, this cable has demonstrated rugged reliability in defense-grade environments.

Technical Specifications

Parameter	Specification
Function	Power and communication interface for cutting mechanism
Supported Interfaces	RS-232, CAN bus, 24V DC
Connectors	C-End: Amphenol 62IN-56T-12-10S Other End: 9-pin Female D-SUB + power interface
Cable Length	800 ±50 mm
Cable Construction	Shielded PTFE wiring with rugged protective boots
Protection Standard	IP65
Operating Temperature	−20°C to +55°C

Pin Configuration (C-End – 62IN-56T-12-10S)

Pin	Signal	Wire Color	Connected To
E	TX	–	D-SUB Pin (TX)
F	RX	–	D-SUB Pin (RX)
G	GND	–	D-SUB Pin (GND)
A	+24V DC	Red	Power Input
C	GND	Black	Power Input
H	CAN-H	–	CAN Interface
J	CAN-L	–	CAN Interface
Body	Shield	–	–



Key Features

- Supports **RS-232 communication, CAN bus, and power** in one harness.
 - MIL-grade Amphenol connector ensures durability.
 - Shielded PTFE wiring with EMI/EMC protection.
 - Optimized harness length with strain-relieved transitions.
 - Proven under harsh field conditions.
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Applications

- Testing and validation of cutting mechanism subsystems.
 - Integration of cutting modules in robotic platforms.
 - Diagnostics during field deployment.
 - **UXOR cutting mechanism validation (field-proven in IAF deployment).**
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Note

The Cutting Mechanism Test Cable is part of THRSL's standard test cable suite. Custom variants can be developed for alternate connector types, cable lengths, or additional communication interfaces.