mA to Serial Test Cable

Model Number: THRSLTCA1171

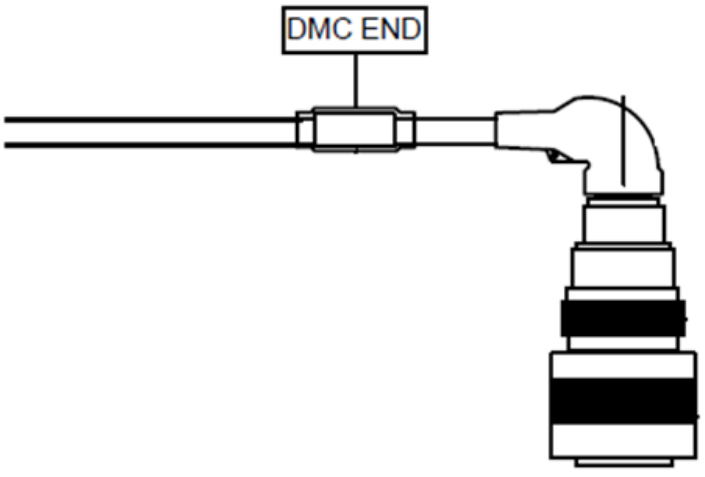
Overview

The mA to Serial Test Cable enables seamless interfacing between current loop (mA) signals and RS-232 communication ports. It is designed for reliable calibration, diagnostics, and subsystem testing where analog current loops are converted into digital serial signals.

Proven in the **UXOR project supplied to the Indian Air Force (IAF)**, the cable ensures robust performance in defense and industrial environments requiring precision and durability.

Technical Specifications

Parameter	Specification
Function	Conversion harness between current loop (mA) and RS-232
Supported Interface	Current loop devices to Serial (9-pin D-SUB)
Connectors	D-End: Amphenol 62IN-56T-10-6S Other End: 9-pin Female D-SUB
Cable Construction	Shielded PTFE wiring with strain relief and protective boots
Protection Standard	IP65
Operating Temperature	–20°C to +55°C

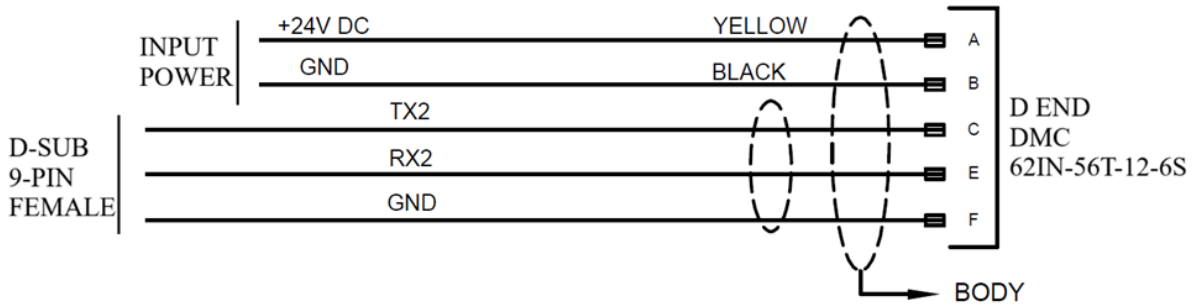


D -END
DMC
62IN-56T-10-6S

Pin Configuration

Connector Mapping (D-End – 62IN-56T-10-6S to 9-Pin Female D-SUB):

Pin (D-End)	Signal	Wire Color	D-SUB Pin
A	+24V DC	Yellow	–
B	GND	Black	–
C	TX2	–	TX2
E	RX2	–	RX2
F	GND	–	GND
Body	Shield	–	–



Key Features

- Interfaces current loop signals to RS-232 serial ports.
- Rugged Amphenol and D-SUB connectors for durability.
- +24V DC support with multiple ground references.
- Shielded PTFE wiring ensures EMI/EMC protection.
- Proven performance under vibration and harsh field conditions.

Applications

- Calibration and diagnostics of sensor loops.
- Subsystem testing with current loop communication.
- Industrial automation requiring analog-to-serial interfacing.
- **UXOR platform subsystem validation (field-proven in IAF deployment).**

Note

The mA to Serial Test Cable is part of THRSL's standard test cable suite. Custom variants can be developed with alternate connector pinouts, additional shielding, or tailored cable lengths.

Do you want me to move next to the **Communication Modem Test Cable (THRSLTCA1231)**?