DMC Programming & Calibration Cable

Model Number: THRSLTCA1201

Overview

The DMC Programming & Calibration Cable is designed to provide secure connectivity between the Digital Motor Controller (DMC) and host systems for programming, configuration, and calibration tasks. It supports +24V DC input, ground references, and RS-232 Tx/Rx communication lines for reliable operation.

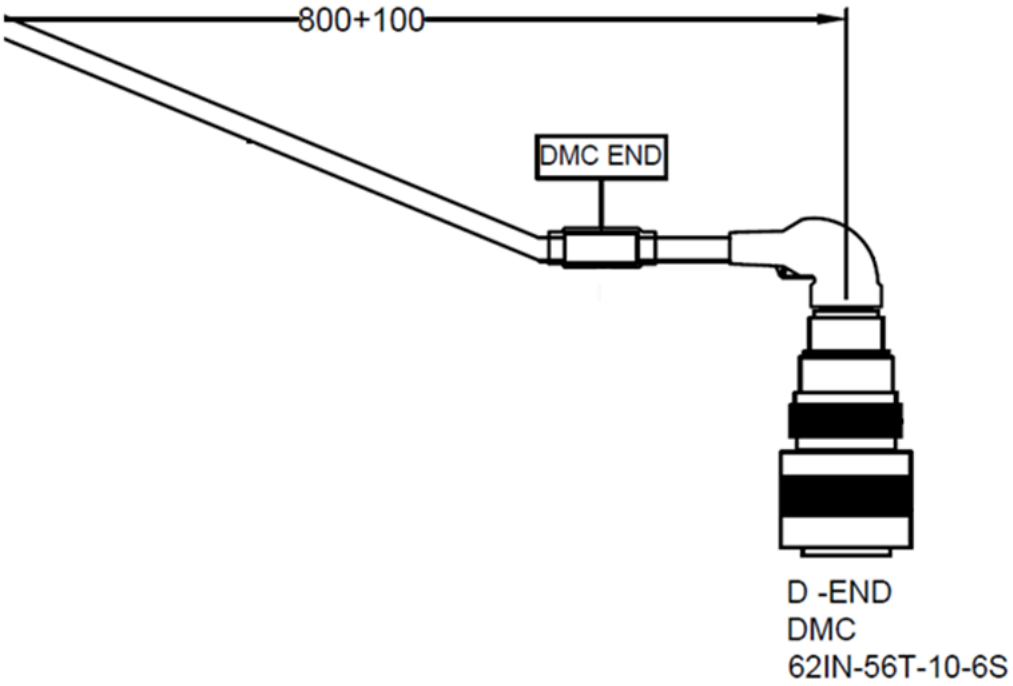
Proven in the **UXOR project supplied to the Indian Air Force (IAF)**, the cable ensures rugged, interference-free performance during bench and field testing.

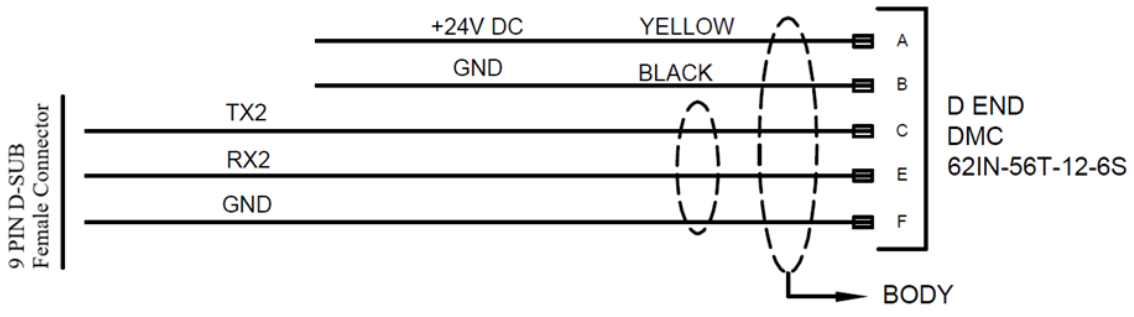
Technical Specifications

Parameter	Specification
Function	Programming and calibration interface for DMC
Supported Interfaces	RS-232, +24V DC power
Connectors	D-End: Amphenol 62IN-56T-10-6S Other End: 9-pin Female D-SUB
Cable Length	800 ±100 mm
Cable Construction	Shielded PTFE wiring with rugged strain relief
Protection Standard	IP65
Operating Temperature	–20°C to +55°C

Pin Configuration – 62IN-56T-10-6S

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





Key Features

- Provides programming and calibration interface for DMC.
- Supports +24V DC power and RS-232 serial communication.
- Rugged MIL-grade Amphenol connector and D-SUB interface.
- Shielded PTFE wiring ensures EMI/EMC protection.
- Optimized harness length with strain-relieved transitions.

Applications

- Programming of Digital Motor Controllers.
- Calibration and diagnostics of robotic drive subsystems.
- Bench testing and validation of control units.
- **UXOR system DMC calibration (field-proven in IAF deployment).**

Note

The DMC Programming & Calibration Cable is part of THRSL's standard test harness suite. Custom variants can be developed with alternate connector pinouts, extended cable lengths, or additional communication standards.