AWJCM Drive Test Cable

Model Number: THRSLTCA1161

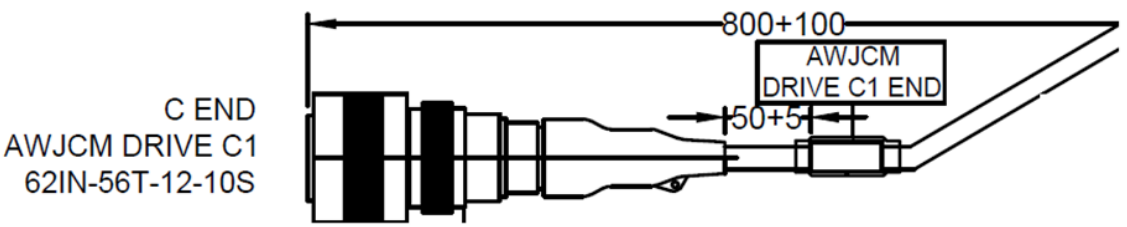
Overview

The AWJCM Drive Test Cable is designed for reliable interfacing, validation, and diagnostics of the AWJCM Drive Unit. It enables secure power and communication transfer during bench testing and field trials. Built with shielded PTFE wiring and MIL-grade connectors, the cable withstands vibration, EMI, and harsh field conditions.

Proven in the **UXOR project supplied to the Indian Air Force (IAF)**, it has demonstrated dependable performance in defense-grade environments.

Technical Specifications

Parameter	Specification
Function	Drive unit testing and diagnostics
Supported Interface	AWJCM Drive Unit (C1 End)
Connectors	C-End: Amphenol 62IN-56T-12-10S Other End: 9-pin Female D-SUB
Cable Length	800 ±100 mm (C-End section) + 50 ±5 mm transition
Cable Construction	Shielded PTFE wiring with protective boots & strain relief
Protection Standard	IP65
Operating Temperature	–20°C to +55°C



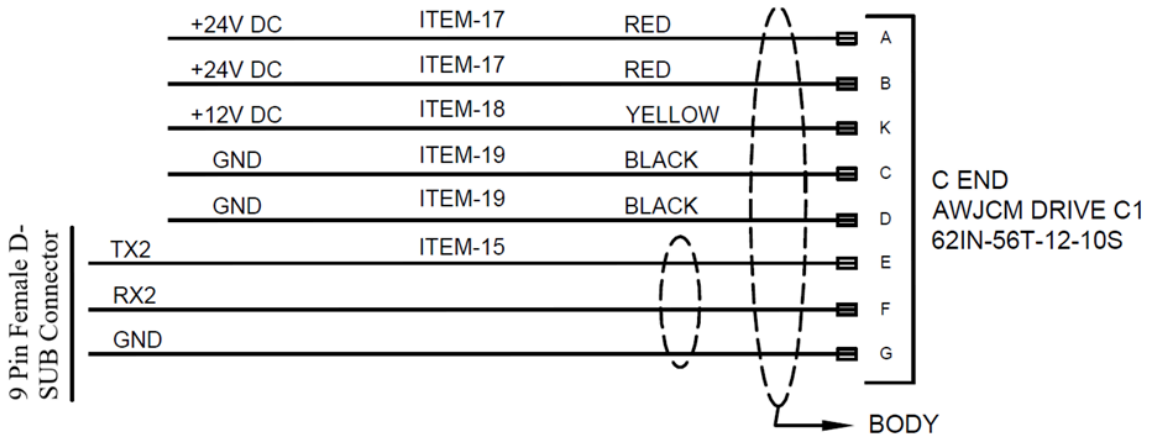
Pin Configuration

Connector Mapping (C-End – 62IN-56T-12-10S to 9-Pin Female D-SUB):

Pin (C-End)	Signal	Wire Color	D-SUB Pin
A	+24V DC	Red	–
B	+24V DC	Red	–
K	+12V DC	Yellow	–
C	GND	Black	–
D	GND	Black	–
E	TX2	–	TX2
F	RX2	–	RX2
G	GND	–	GND
Body	Shield	–	–

Key Features

- Dedicated cable for AWJCM Drive Unit diagnostics.
- Rugged Amphenol and D-SUB connectors for secure mating.
- Dual supply support: +24V DC and +12V DC.
- Shielded PTFE wires ensure EMI/EMC protection.
- Optimized length with strain-relieved transitions.



Applications

- Bench testing of AWJCM Drive Unit.
- Field diagnostics during robotic platform trials.
- Validation of communication and power lines in defense platforms.
- **UXOR system drive integration (field-proven in IAF deployment).**

Note

The AWJCM Drive Test Cable is part of THRSL's standard test cable suite, designed to simplify subsystem integration and testing. Custom harnesses can be developed with alternate connector types, extended lengths, or specialized signal configurations.