MC Test Cable at Connector C5-VXM

Model Number: THRSLTCA1041

Overview

The MC Test Cable at Connector C5-VXM is a multi-branch harness designed to connect the Motor Controller (MC) at C5 with the PDB, modem, and emergency modem interfaces. It carries power, Tx/Rx serial data, and ground references, supporting reliable subsystem communication during testing.

Proven in the **UXOR project supplied to the Indian Air Force (IAF)**, this cable has been field-tested for durability and consistent subsystem integration.

Technical Specifications

Parameter	Specification
Function	Multi-signal harness linking MC C5 to PDB, modem, and emergency modem
Connectors	A-End: 62IN-56T-14-19P (MC C5) B-End: 62IN-56T-14-19P (PDB C5) C-End: Emergency Modem Connector E-End: DB-9 Female (Comm. Data Modem)
Cable Lengths	A–B: 1000 ±100 mm Branch C: 3100 ±100 mm Branch E: 800 ±200 mm
Supported Signals	+12V, GND, Tx, Rx, Modem data lines
Cable Construction	Shielded PTFE insulated wiring
Protection Standard	IP65
Operating Temperature	–20°C to +55°C

Pin Configuration (Start → End Mapping)

MC C5 (A-End) to PDB C5 (B-End)

MC C5 Pin	Signal	Wire Color	Destination (PDB C5 Pin)
D	Rx5	Black	B-End Pin B
E	Tx5	Black	B-End Pin A
C	GND	Black	B-End Pin C
J	+12V	Yellow	B-End Pin T
G	GND	Black	B-End Pin U

MC C5 (A-End) to Emergency Modem (C-End)

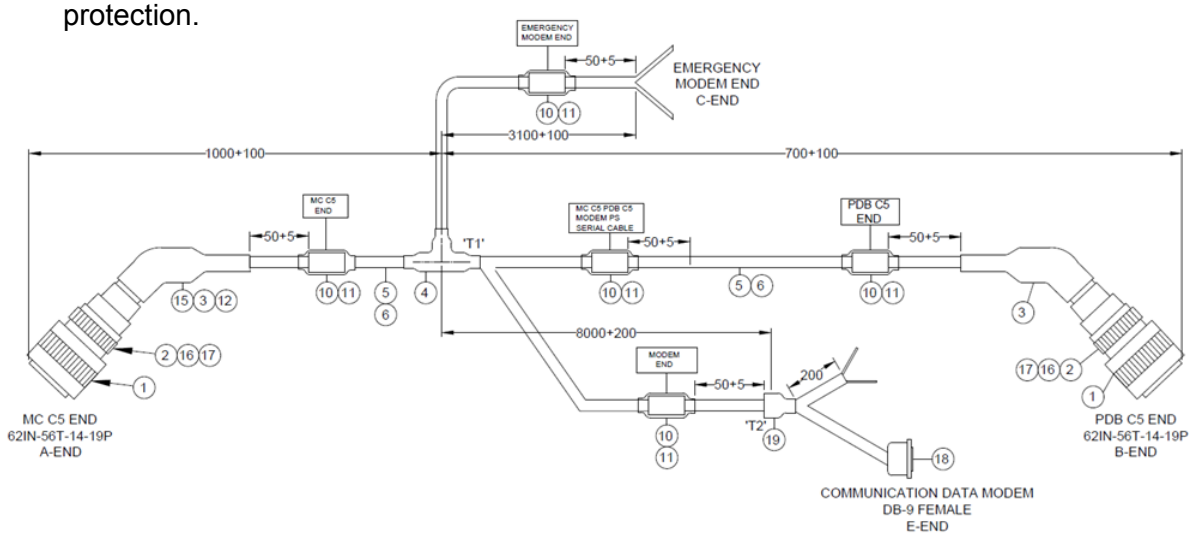
MC C5 Pin	Signal	Destination
V, W	Digital Outputs	Emergency Modem Input

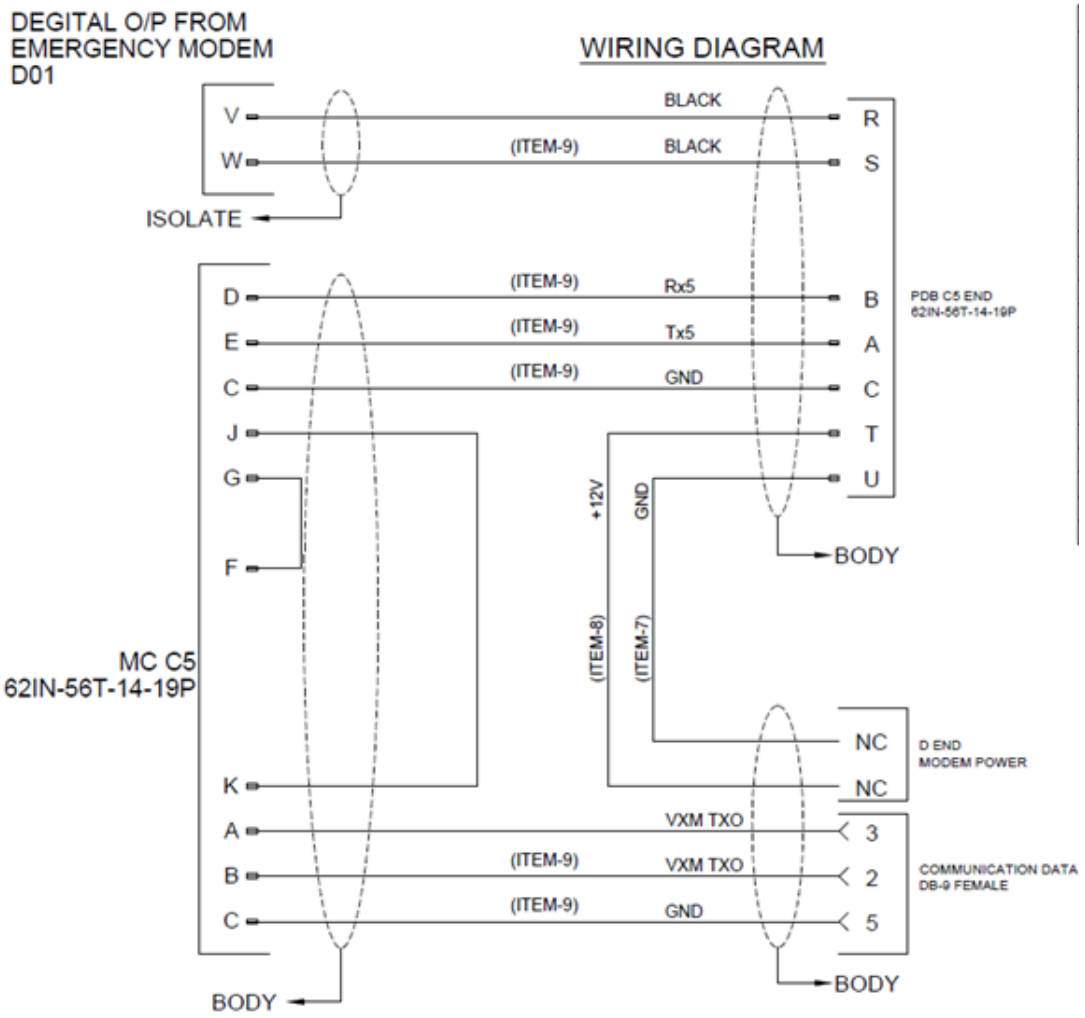
MC C5 (A-End) to Communication Data Modem (DB-9 Female, E-End)

MC C5 Pin	Signal	Destination (DB-9)
A	VXM TX0	DB-9 Pin 3
B	VXM RX0	DB-9 Pin 2
C	GND	DB-9 Pin 5

Shielding

- Connector shells and cable shield continuity maintained across all ends for EMI/EMC protection.





Key Features

- Multi-branch harness linking **MC, PDB, modem, and emergency modem**.
- Rugged Amphenol and DB-9 connectors.
- Shielded PTFE wiring ensures EMI/EMC compliance.
- Optimized lengths for modular integration in UXOR platforms.
- Proven durability in defense-grade applications.

Applications

- MC–PDB interface testing.
- Communication modem integration.
- Emergency modem link validation.
- **Field-tested in UXOR IAF deployments.**

Note

The MC Test Cable at Connector C5-VXM is part of THRSL's standard subsystem cable suite, designed for multi-interface testing. Custom variants can be developed for alternate connector pinouts or extended cable lengths.