

Vehicle CAN Debug Cable

Model Number: THRSLTCA1181

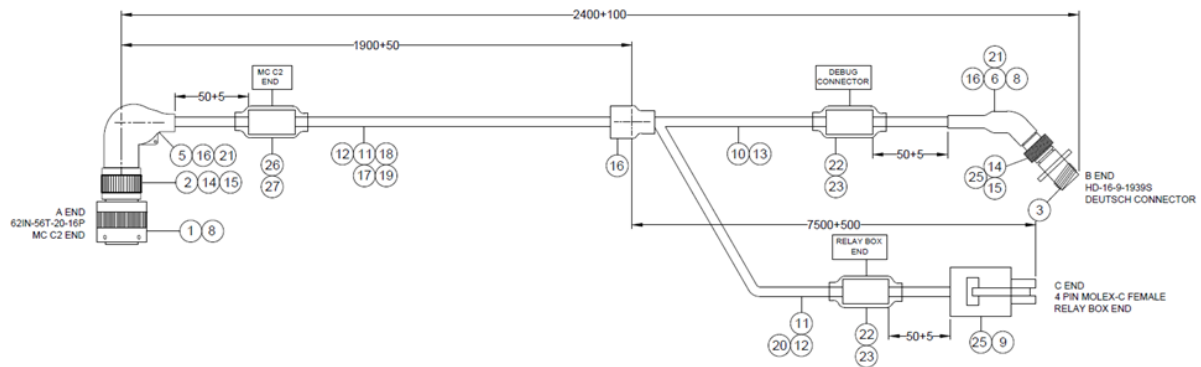
Overview

The **Vehicle CAN Debug Cable** is a standard THRSL product designed for diagnostic interfacing and communication testing in vehicle and robotic platforms. It provides a reliable and rugged connection for accessing the Controller Area Network (CAN) during system validation and troubleshooting.

The cable features **rugged connectors, shielded PTFE wiring, and MIL/TE approved materials**, making it suitable for harsh industrial and defense environments. It has also been **successfully deployed in the UXOR project supplied to the Indian Air Force (IAF)**, serving as proof of its reliability in field operations.

Technical Specifications

Parameter	Specifications
Function	Vehicle CAN interface and diagnostics
Supported Protocol	CAN bus
Connectors	- Amphenol 62IN-56T-20-16P (MC C2 End) - Deutsch HD16-9-1939S (Debug End) - Molex 4-pin Female (Relay Box End)
Cable Lengths	Main run: 2400 mm ±100 mm Relay box branch: 7500 mm ±500 mm
Cable Construction	- PTFE insulated wiring (Type-E, aerospace grade) - Tinned copper braid shielding (MIL / LCSO approved) - Marker sleeves, transitions & boots for protection
Assembly Features	- Epoxy polyamide sealing (TE approved) - Stainless steel banding for strain relief - Loctite thread locking for vibration resistance
Protection Standard	IP65
Operating Temperature	-20°C to +55°C



Key Features

- Provides reliable access to vehicle CAN networks for debugging and validation
- Rugged multi-branch cable harness with **dedicated debug port**
- Shielded, PTFE-insulated wiring for EMI/EMC protection
- Built with MIL/TE approved components for long-term durability
- IP65 protection and wide operating temperature range for outdoor and field use
- Designed for **plug-and-play diagnostics** in industrial and defense platforms

Applications

- CAN bus monitoring and diagnostics in vehicles
- Robotics subsystem testing and validation
- Industrial automation system debugging
- UXOR system communication validation (**field-proven in IAF deployment**)

Note

The **Vehicle CAN Debug Cable** is part of **THRSL's standard technology suite**, designed for **plug-and-play deployment** across industries. Its successful performance in the **UXOR project for the Indian Air Force (IAF)** further validates its reliability in defense-grade environments.

The cable can be **customized** to meet unique user requirements such as connector types, branch lengths, or additional shielding.