

GPS Interface Cable

Model Number: THRSLTCA1211

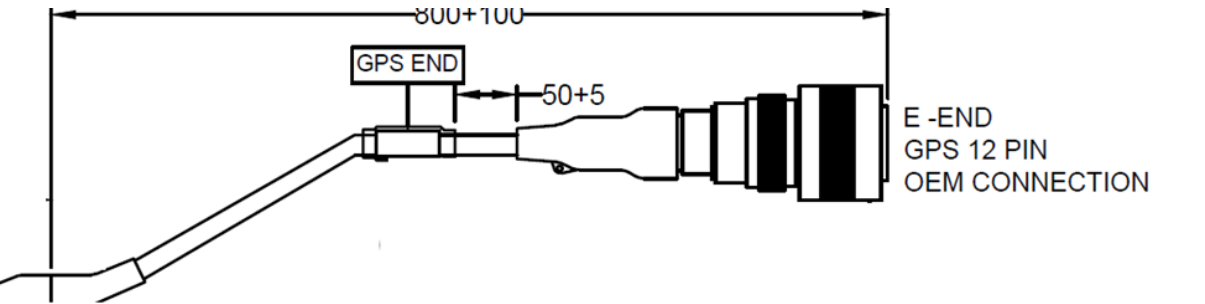
Overview

The GPS Interface Cable provides a secure connection between the GPS module and host systems for reliable data transfer and power supply. Built with ruggedized connectors and shielded PTFE wiring, it ensures stable communication in demanding environments.

Proven in the **UXOR project supplied to the Indian Air Force (IAF)**, it has demonstrated reliable field performance in mission-critical defense operations.

Technical Specifications

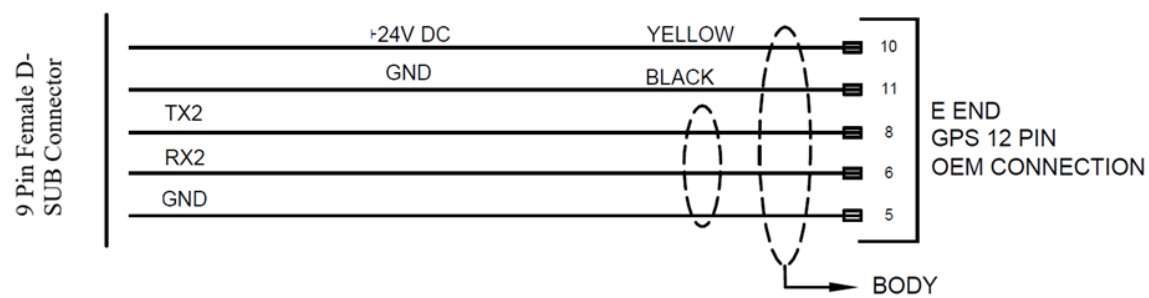
Parameter	Specification
Function	GPS power and communication interface
Supported Interface	GPS Module (OEM 12-pin connector)
Connectors	E-End: GPS 12-pin OEM connection Other End: 9-pin Female D-SUB
Cable Length	800 ±100 mm (main run) + 50 ±5 mm transition
Cable Construction	Shielded PTFE wiring with protective boots & strain relief
Protection Standard	IP65
Operating Temperature	−20°C to +55°C



Pin Configuration

Connector Mapping (GPS 12-pin OEM Connector to 9-Pin Female D-SUB):

GPS Pin	Signal	Wire Color	D-SUB Pin
10	+24V DC	Yellow	–
11	GND	Black	–
8	TX2	–	TX2
6	RX2	–	RX2
5	GND	–	GND
Body	Shield	–	–



Key Features

- Provides stable GPS interface connectivity.
- MIL-grade connectors ensure durability in rugged use.
- Supports +24V DC supply with dedicated ground lines.
- Shielded PTFE wiring for EMI/EMC protection.
- Optimized harness length with robust strain relief.

Applications

- GPS module integration in defense vehicles and robotic platforms.
- Bench testing and validation of GPS communication.
- Reliable navigation system interfacing for field trials.
- **UXOR platform navigation harness (field-proven in IAF deployment).**

Note

The GPS Interface Cable is part of THRSL's standard cable suite, engineered for plug-and-play integration. Its successful deployment in the **UXOR project (IAF)** demonstrates robustness in defense environments. Custom versions can be built to support alternate connector standards, extended cable lengths, or additional signal lines.