Test Cable for Cameras

Model Number: THRSLTCA1151

Overview

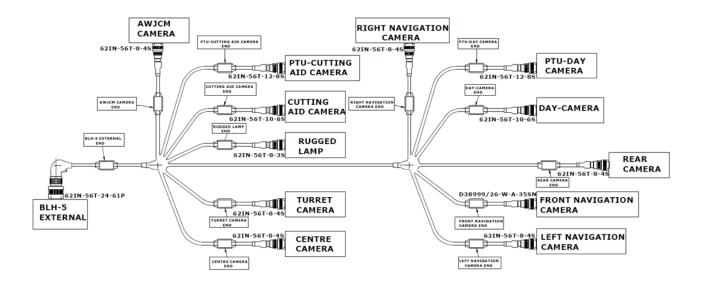
The **Test Cable for Cameras** is a standard THRSL product designed to provide reliable connectivity and diagnostics for a wide range of vision systems. It supports **multiple analog camera types** as well as a **thermal imager**, enabling quick validation, integration, and field testing.

Built with rugged MIL-grade connectors, shielded PTFE wiring, and standardized pinouts for **power, video, and communication**, the cable ensures high reliability and interference-free operation. Proven in the **UXOR project supplied to the Indian Air Force (IAF)**, it has demonstrated field-ready performance in demanding defense environments.

Technical Specifications

Parameter	Specifications		
Function	Multi-camera testing and interface validation		
Supported Cameras	Analog video cameras (various types) + Thermal Imager		
Supported Signal Lines	- Video + / Video TX / RX channels - GND - Shield		
Power Supply Lines	+12V DC (standard) +24V DC (for PTU / cutting aid cameras)		
Connectors	- Amphenol 62IN series (8-pin, 10-pin, 12-pin variants) - Deutsch D38999 (for select navigation/front camera interfaces) - MIL-grade circular rugged connectors		
Cable Construction	Shielded PTFE wiring with protective boots, transitions, and braiding		
Harness Layout	Centralized harness branching to multiple camera and imager interfaces		
Protection Standard	IP65		

Operating	-20°C to +55°C
Temperature	



Key Features

- Supports multiple analog cameras and thermal imager in one harness
- Provides power, video, and serial communication over shielded lines
- Ruggedized connectors ensure secure operation under field conditions
- EMI/EMC-protected with braided shielding and grounded lines
- Simplifies integration with plug-and-play harness design
- IP65-rated with wide operating temperature range

Applications

- Testing of analog and thermal cameras during integration
- Video signal diagnostics in robotic and defense platforms
- Industrial automation vision system validation
- UXOR platform camera harness (field-proven in IAF deployment)

Pin Configurations

Camera / Device	Connector Type	Pin Assignments
PTU-Day Camera	62IN-56T-12-8S	A: +24V, B: GND, C: TX1, D: RX4, E: GND
Day Camera	62IN-56T-10-6S	A: +12V, B: GND, C: TX1, D: RX1, E: GND, F: Video+, Body: Video-
PTU-Cutting Aid Camera	62IN-56T-12-8S	A: +24V, B: GND, C: TX5, D: RX5
Cutting Aid Camera	62IN-56T-10-6S	A: +12V, B: GND, C: TX2, D: RX2, E: GND, F: Video+, Body: Video-
Rugged Lamp	62IN-56T-8-3S	A: +12V, C: GND
Left Navigation Camera	62IN-56T-8-4S	A: +12V, B: GND, C: Video+, D: Video-
Right Navigation Camera	62IN-56T-8-4S	A: +12V, B: GND, C: Video+, D: Video-
Right Navigation (Alt.)	D38999/26-W-A-35 SN	Pin 1: +12V, Pin 2: GND, Pin 3: Video+, Pin 4: Video-
Rear Camera	62IN-56T-8-4S	A: +12V, B: GND, C: Video+, D: Video-
Centre Camera	62IN-56T-8-4S	A: +12V, B: GND, C: Video+, D: Video-
Turret Camera	62IN-56T-8-4S	A: +12V, B: GND, C: Video+, D: Video-
AWJCM Camera	62IN-56T-8-4S	A: +12V, B: GND, C: Video+, D: Video-
Thermal Imager	Custom 4-pin connector	Pin 1: +12V (Yellow), Pin 2: GND (Black), Pin 3: Signal, Pin 4: Shield

Note

The **Test Cable for Cameras** is part of **THRSL's standard technology suite**, designed for **plug-and-play deployment** across industries. Its proven use in the **UXOR project for the Indian Air Force (IAF)** demonstrates its robustness and adaptability under mission-critical conditions.

Custom harnesses can be designed to support different camera standards, connector types, or environmental requirements.