

MC Input Power Cable C1

Model Number: THRSLTCA1201

Overview

The MC Input Power Cable connects the **PDB (C1)** to the **Main Controller (C1)**, delivering the primary +24 VDC power and ground. The cable employs multiple redundant +24 V and GND lines for current handling and reliability, with shield continuity for EMI protection. Designed and fielded in the **UXOR project supplied to the IAF**.

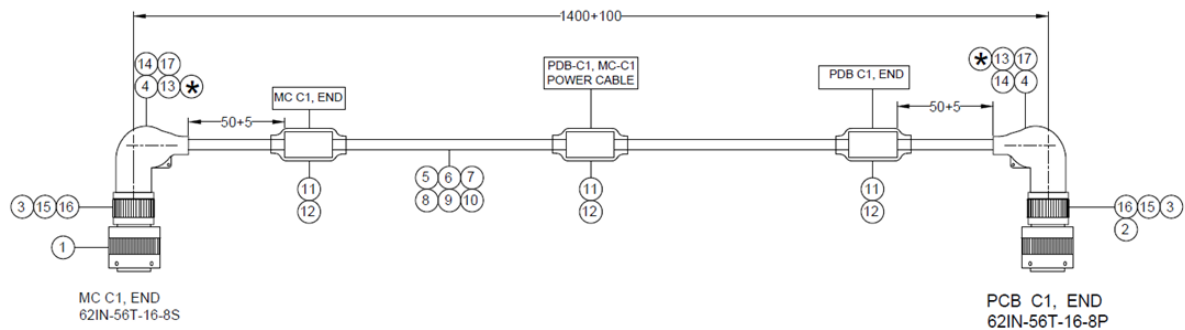
Technical Specifications

Parameter	Specification
Function	Supplies +24 VDC power from PDB to MC
Connector A	MC C1 End — 62IN-56T-16-8S
Connector B	PDB C1 End — 62IN-56T-16-8P
Conductors	4× +24 V (Red/Yellow), 4× GND (Black)
Wire gauge	20 AWG per line
Cable length	1400 ± 100 mm
Construction	Shielded, strain-relieved
Environment	IP65; −20 °C to +55 °C

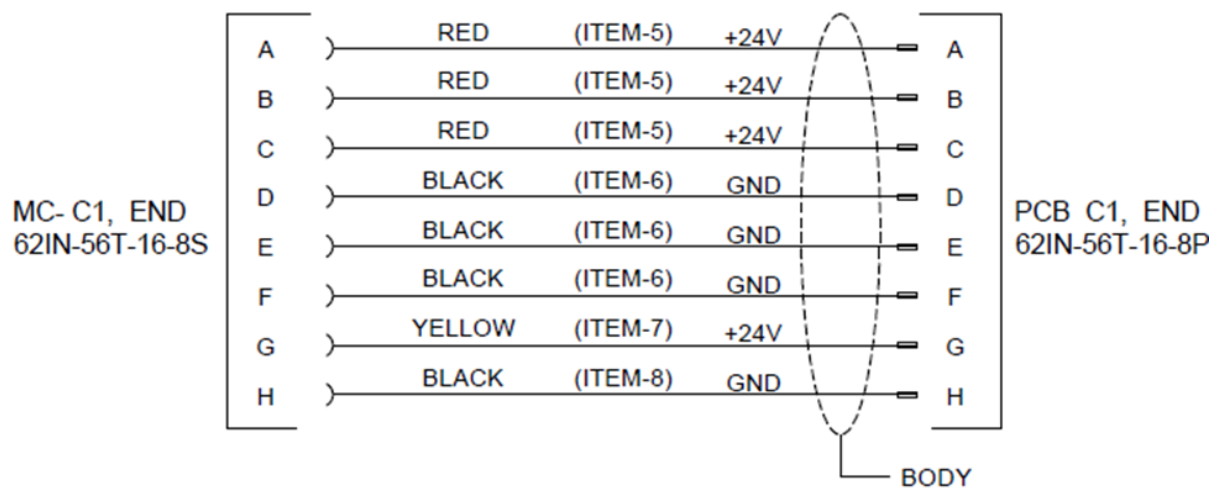
Pin Configuration

MC C1 → PDB C1

MC C1 Pin	Signal	Wire Color	PDB C1 Pin
A	+24 V	Red	A
B	+24 V	Red	B
C	+24 V	Red	C
D	GND	Black	D
E	GND	Black	E
F	GND	Black	F
G	+24 V	Yellow	G
H	GND	Black	H
Body	Shield	—	Body



WIRING DIAGRAM



Key Features

- Redundant +24 V and GND lines for improved current handling and reliability.
- Shield continuity ensures EMI suppression.
- Rugged MIL-grade circular connectors for secure mating.
- Designed for vehicle integration under harsh conditions.

Applications

- Main Controller power input in UXOR platforms.
- Bench testing and vehicle-level integration.
- Any setup requiring stable +24 VDC to the Main Controller.