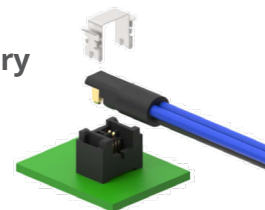


MiniMix Hybrid Power and Signal Connectors >

Ideal for humanoid robots, autonomous mobile robots (AMRs) and advanced industrial automation systems, MiniMix hybrid connectors combine power delivery and high-speed Ethernet communication within a single ultra-compact interface, reducing connector count, cabling complexity and assembly effort. This space-saving design enables installation in space-constrained joints, actuators and robotic mechanisms, delivering a high-performance integrated solution.



ADVANTAGES AND FEATURES

Streamlines routing with an ultra-compact profile

A 5.65mm routing profile enables easier connector routing and cabling through tight actuator channels and robotic joints.

Simplifies assembly for a lightweight design

The system architecture combines power and signal transmission into a single integrated connectivity solution, creating a lighter, less complex module.

Configurations	Right angle and vertical
Current	Up to 15.0A
Data Rate	Up to 1Gbps Ethernet
Routing Profile	5.65mm

Reduces connector count while supporting advanced robotic functionality

These connectors enable up to 15.0A power contacts and 1Gbps 1000BASE-T1 Ethernet communication in a compact hybrid architecture.

Enables design flexibility

Vertical and right-angle orientations accommodate diverse layout requirements with minimal rework.

MARKETS AND APPLICATIONS

Humanoid robotics

Dexterous robotic hands

Industrial automation

Automatic guided vehicles
Autonomous mobile robots
Industrial robotics



Dexterous Robotic Hands



Industrial Robotics

SPECIFICATIONS

Electrical

Current (max.): 15.0A
Data Standard: 1000BASE-T1 Ethernet
Data Rate: 1Gbps

Physical

Routing Length: 5.65mm

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