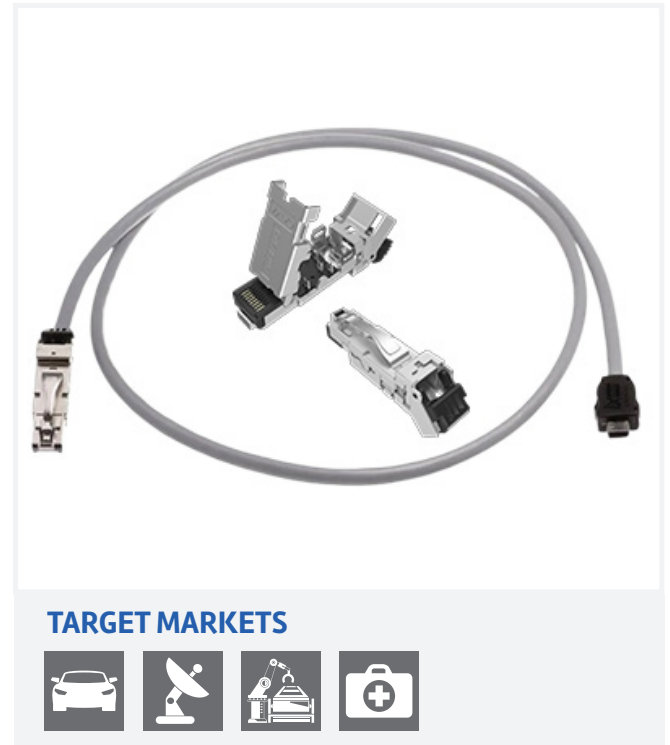


Industrial RJ Plug and Cables

NEXT GENERATION INDUSTRIAL IoT CONNECTIVITY

Industrial Ethernet connectors and cables enable IoT connectivity for Ethernet and other Industrial protocols through all levels of operations from the enterprise/cloud to the sensors/actuators on the factory floor. The Industrial RJ series of modular ethernet plugs and cables provide CAT6A performance per ANSI/TIA-568.2-D. It supports Gigabit Ethernet Protocols and 10Gig links in applications up to 100m. The field terminable design offers easy assembly/disassembly, and its robust construction ensures reliable operation in harsh environments. Cables are available in various configurations such as Industrial RJ to standard RJ, RJ to *ix Industrial™*, and many more.

- Straight, 45° and 90° cable exit options for cable management flexibility
- High data rate performance for 10G ethernet
- Field terminable IDC plugs
- Metal construction for harsh environments
- Re-terminable for easy rework
- Longevity in industrial applications
- Different Cable Types offering flexibility and versatility



FEATURES

- Multiple cable exit options including straight, 45° and 90°, configurable in 4 positions
- High data rate, with CAT6A performance
- Field terminable IDC plugs with solder options
- Cast metal body and stainless-steel latch
- Ratchet locking cable clamp
- Longevity in rugged environments
- Different Cable Types and variations

BENEFITS

- Flexibility for enhanced cable management in different applications
- Supports Gigabit Ethernet Protocols and 10Gig links in applications up to 100m
- Ease of custom cabling or repair in the field with IDC contacts
- Rugged construction and latching resists damage and ensures reliable latching, plus full shielding
- Adjustable for varying cable diameters, with reliable cable strain relief
- More resistant to wear and tear, ensuring a longer lifespan compared to standard Ethernet cables
- Available in various forms (e.g., Industrial RJ to *ix Industrial™*)

TECHNICAL INFORMATION

MATERIAL

- RJ Terminal: Copper Alloy with Gold thickness options (Gold flash, 6µin, 15µin, 30µin, 50µin) over 50µin minimum Nickel on contact mating area, 100µin minimum matte Tin plating on solder tails
- IDC Terminal: Copper Alloy with 100µin minimum matte Tin over 50µin minimum Nickel overall
- Housing: Engineering thermoplastic with color options, flammability rating UL 94V-0
- Shield: Die-cast Zinc Alloy with Nickel plating
- Latch: Stainless steel, 0.30mm thickness
- Spring: Stainless steel, 0.30mm thickness
- PCB: FR4 with 0.05mm. Copper, 1.02mm thickness

ELECTRICAL PERFORMANCE

- Current Rating: 1.5A per contact
- Voltage Rating: 60VDC
- Contact Resistance: 20mΩ max.
- Insulation Resistance: 500MΩ min. at 100VDC for 2 minutes max.
- Dielectric Withstanding Voltage: Contact to Contact: 1,000VAC, 6Hz, 1 min.
- Contact to Shield: 2,250VDC, 60Hz, 1 min.
- Transmission Characteristics: Category 6A per ANSI/TIA-568.2-D
- Transmission Speed: 10Gb/s
- Frequency Range: To 500MHZ

MECHANICAL PERFORMANCE

- Mating Connector Insertion Force: 5.0lbs max.
- Mating Connector Pull Retention Force: 20.0lbs min.
- Industrial RJ Durability: 750 mating and unmating cycles for 50µin Gold plating
- IX Durability: 5000 mating and unmating cycles for 50µin Gold plating
- Retention Force of Cable: Pull-out force – 36N min.
- Vibration: Per EIA364-28/6d, Condition II, 10g's
- Physical Shock: Per EIA364-27/6c, 50g's, 1/2 Sine, 11ms
- Supports PoE per IEEE 802.3bt

APPROVALS & CERTIFICATION

- RoHS per EU Directive 2011/65/EU and amendments

ENVIRONMENTAL

- Temperature Rise at Current Rating: Per EIA364-70, 30°C rise max.
- Thermal Shock: Per EIA-364-32/11d, -40°C to +85°C, 25 cycles
- Cyclic Damp Heat: Per EIA-364-31a, 21 cycles
- Mixed Flowing Gas: Per EIA-364-65 /11g, Class IIA, 7 days
- Degrees of Protection: Per IEC 60529, IP20
- Operating Temperature: -40°C to +85°C

SPECIFICATION

- ANSI/TIA-568.2-D
- Amphenol Specification: S6179C

PACKAGING

- PE Bag and Boxes

TARGET MARKETS/APPLICATIONS



Transportation



Internet of Things (IoT)
Sensors, Actuators, and Network Nodes
Mobile Communication Systems
Traffic Control and Monitoring Systems

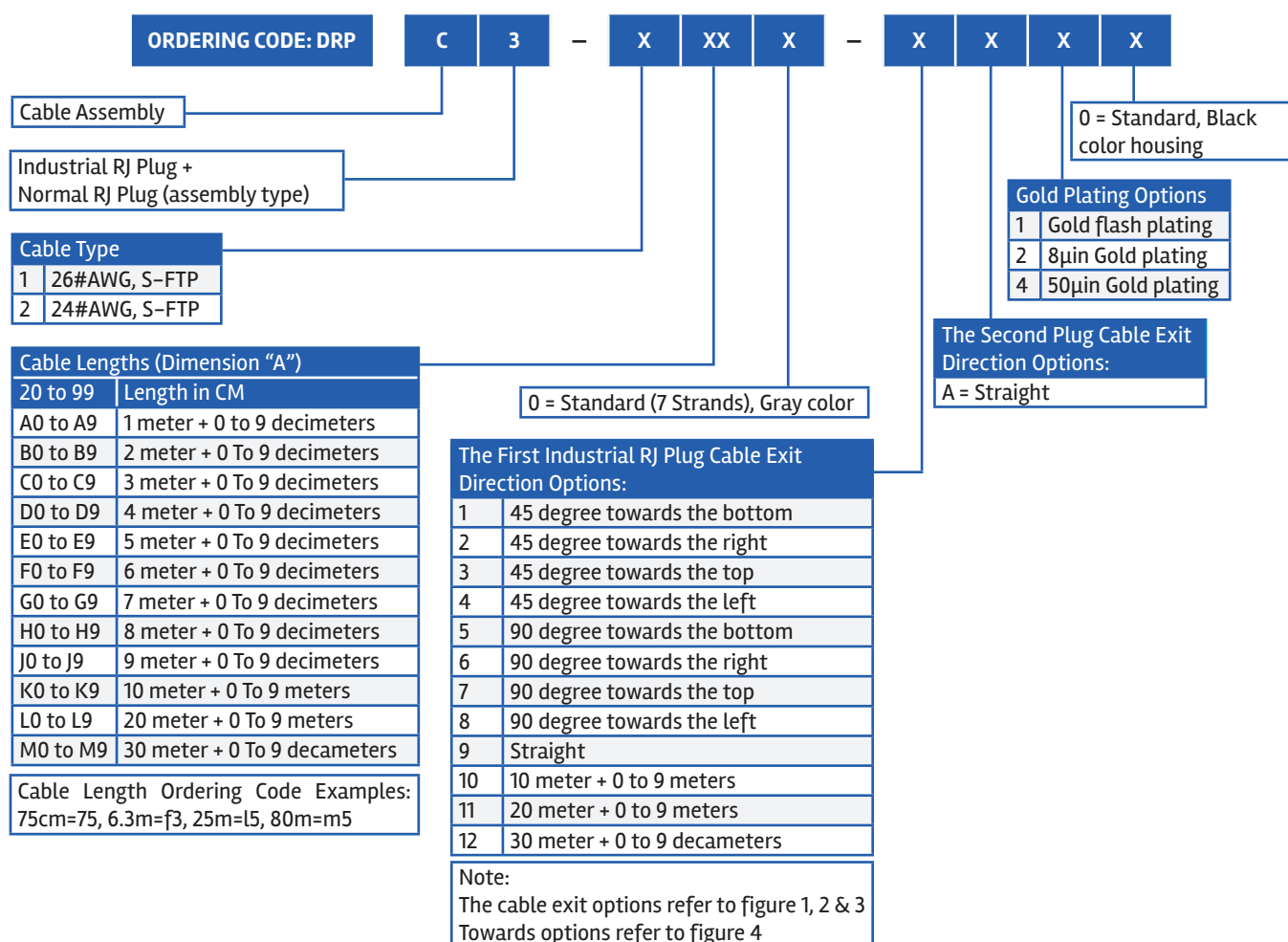
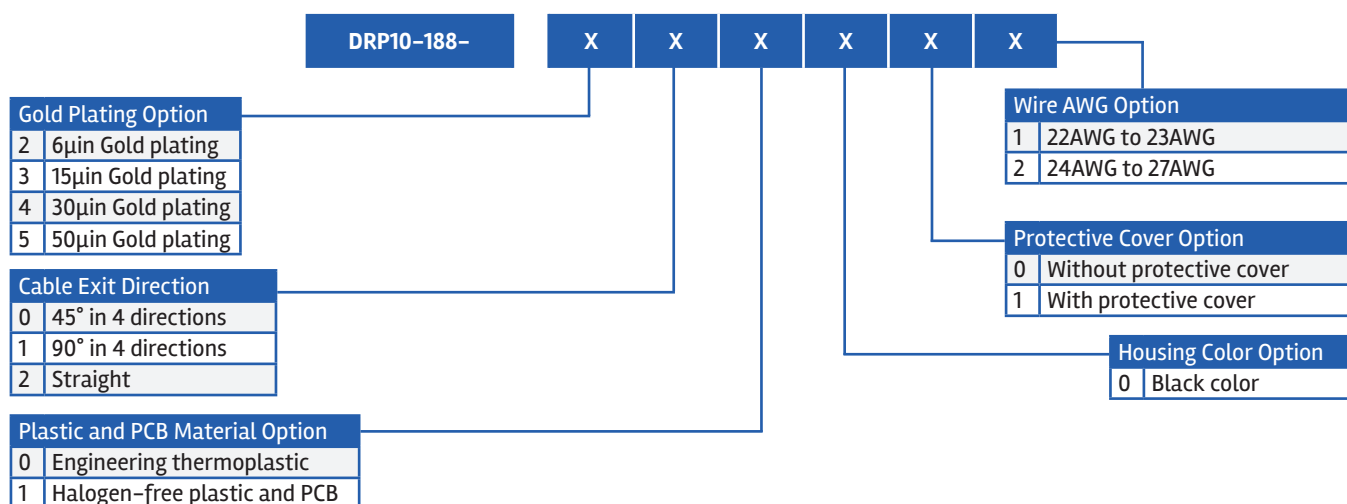


Machine to Machine (M2M)
Robotics
Building Automation
Test Equipment

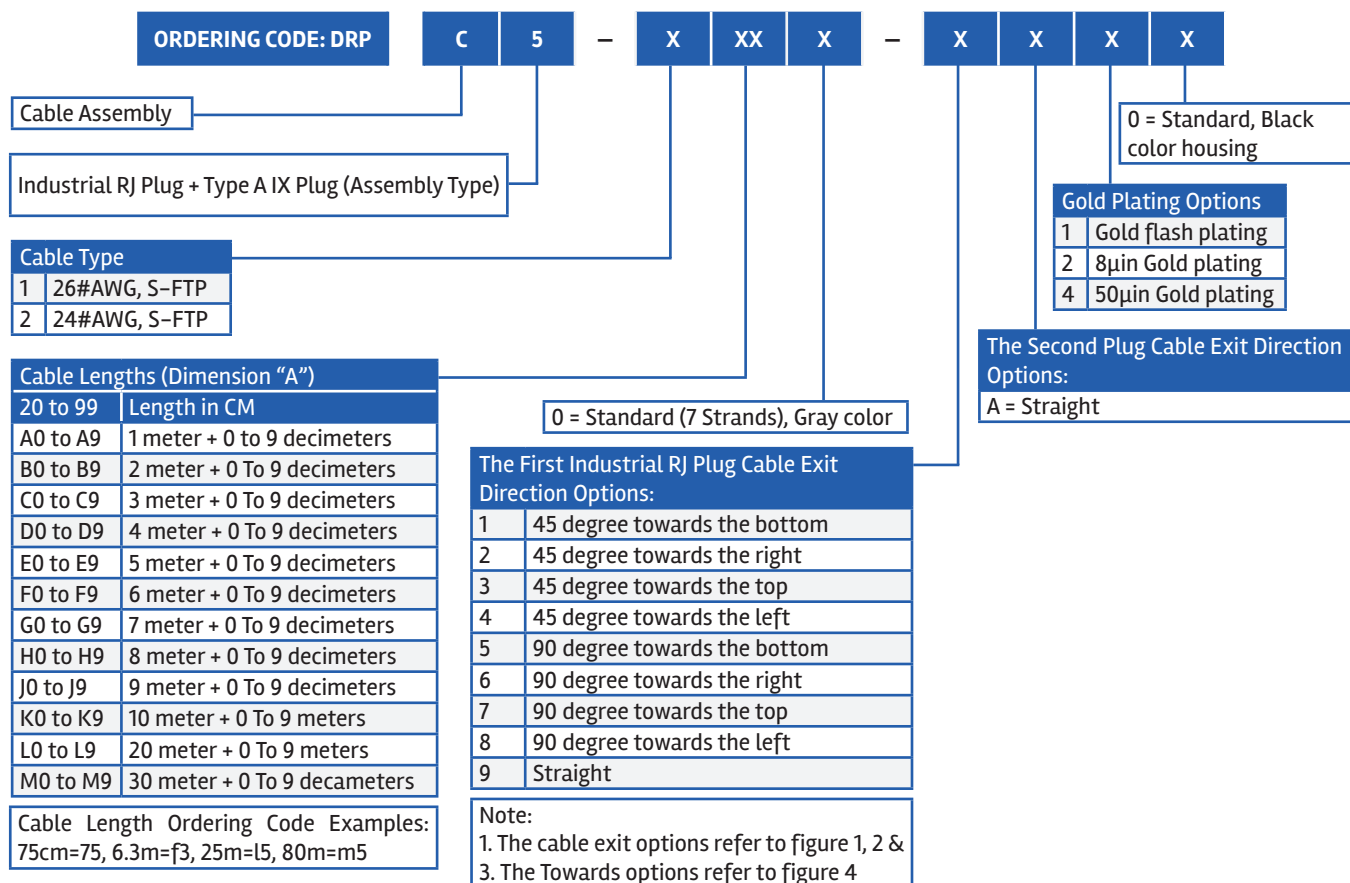
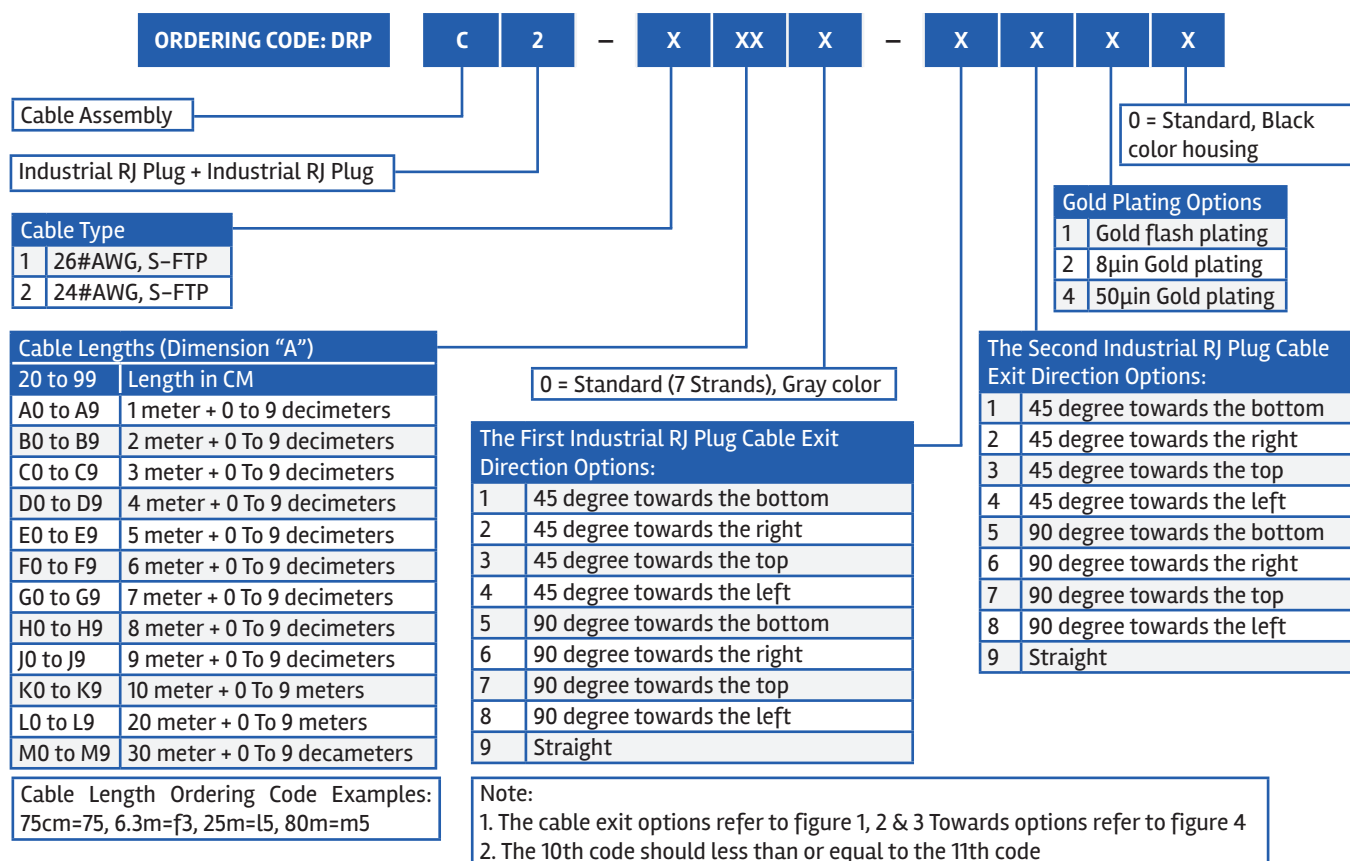


Healthcare / Medical Equipment

PART NUMBER SELECTOR



► Industrial RJ Plug and Cables



▶ Industrial RJ Plug and Cables



ACPA/INDR/PLCAT124EA4