

M12-A Electronics Cable Options

Description

Choose the right cable for your flow measurement application based on your installation environment. All our cables are shielded for improved performance in environments with EMI/RFI noise. Whether your installation is indoor or outdoor, simple panel wiring or robot arms with continuous movement or areas where cables can be exposed to water or solvents, we have a solution that will work.

PUR Cable (Polyurethane)

Flexible * Mechanical Stress

This cable is flexible, abrasion-resistant, and resistant to oils, chemicals, and mechanical stress. Shielded with wire mesh, it is best suited for applications involving constant movement (i.e. robotic arms), outdoor environments, and in applications with heavy machinery where cables may be dragged or stepped on. Standard cables come with overmolded connectors.

Common Uses: Robotics, paint facilities, medical applications, industrial automation, and outdoor installations.



PVC Cable

Cost-Effective * Basic Applications

This cable is affordable, lightweight, and relatively resistant to chemicals and moisture. The cable is shielded by wire mesh for better EMI/RFI noise filtering. It is best suited for mild environmental conditions, indoor use where temperature and wear concerns are minimal. Standard cables come with overmolded connectors.

Common Uses: Control panels, assembly lines, medical manufacturing, and general-purpose industrial applications. PVC also has good UV resistance for outdoor installations.



FEP Cable (PTFE variant)

Chemical Resistant * Outdoor & Washdowns

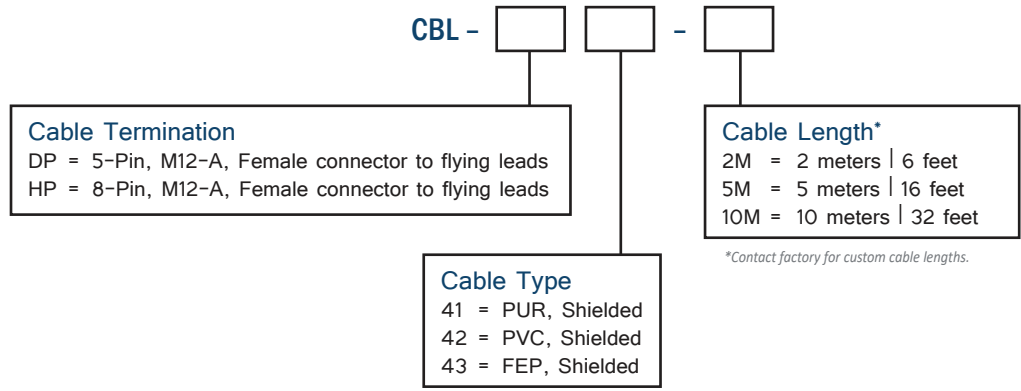
This cable is chemical-resistant and durable. It is best suited for harsh environments with areas exposed to chemicals or oil, and high-frequency electrical applications, due to its insulation properties.

Common Uses: Aerospace, chemical plants, military applications, oil & gas, and high-temp industrial machinery.



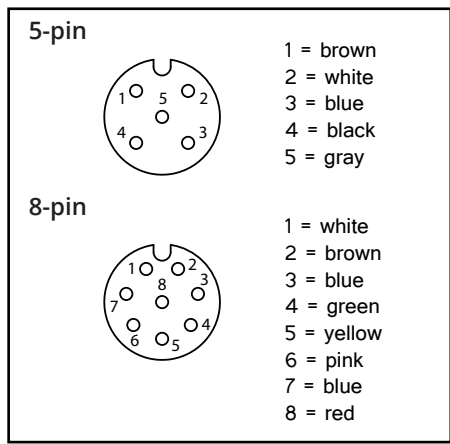
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Cable Specifications

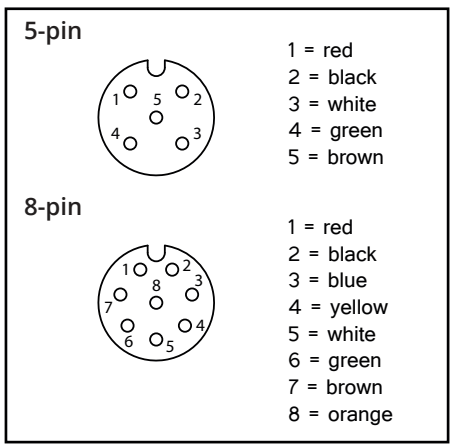


Cable Face Pinouts

PUR & PVC



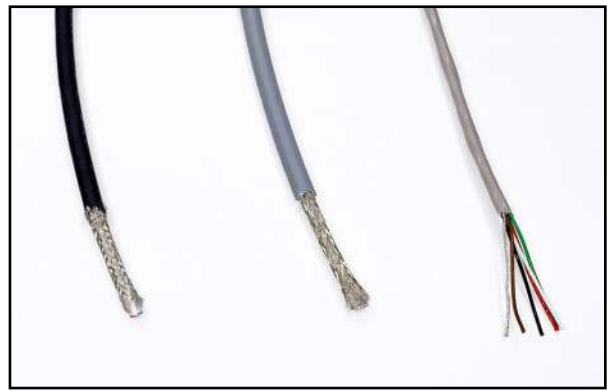
FEP



Wire Stripping Instructions

When stripping the outer jacket from wires, use precision tools like a cable stripper to carefully remove the outer layer without nicking or cutting into the braided shield or wires beneath. The braided shield on the PUR and PVC cables is critical for suppressing electromagnetic and radio frequency interference (EMI/RFI), so ensure slow, controlled movements to maintain its integrity for optimal performance.

For More Information: Check out AW-Lake's YouTube Channel for a video showing how to properly strip the cable ends and handle shield wires. Or click [HERE](#) to watch it now.



Left to right: PUR, PVC, FEP