Hydroconn™ AMR IV Series Connectors
AMR IV Series

Geospace Technologies offers a complete line of AMR connectors specifically designed and manufactured to meet the rugged requirements for in pit, underwater applications. Geospace’s unique design ensures total moisture sealing for even the toughest underwater applications, yet they are easily re-entered for troubleshooting a transponder or for a meter swap out. Versions are available that utilize molded in place or potted terminations for sealing. A PCB/Panel Mount version specifically designed and manufactured to be mounted on water meter endpoints, MTUs, or any other place an AMR IV Plug can be connected is also available. All versions are totally intermateable with the Itron In line Connector.

Cutting-Edge Design and Features

- Special manufacturing process designed to vastly improve cable/connector reliability for rugged field applications
- Post molded strain relief from cable to connector with potted option for PVC cable
- Internal/External totally bonded connector
- Flexible TPU and Glass-filled TPU extruded cable jacket and molded connector
- Design prevents misalignment of damaged pins
- Gold-coated pins prevent corrosion and reliable electronic connection

*PCB/Panel Mount Connector’s front, side, and back views, respectively.*
Hydroconn™ AMR IV Overmolded Cable Mount Connectors

AMR IV CONNECTION CUT-AWAY

SMOOTH BORE TECHNOLOGY
PATENT PENDING

BONDED INTERFACE TO CREATE BACK WALL OF “O”-RING GROOVE

AMR IV RECEPTACLE INSERT

PLUG OVERMOLD

AMR IV PLUG INSERT

Specifications

- Connector Material: Flexible TPU and Glass Filled TPU
- Contacts: Machined 22 AWG Copper Alloy
- Contact Plating: 5μ inches gold over 50μ Ni
- Insulator: Glass filled thermoplastic
- Current Rating: 7.5 amps
- Voltage Rating: 300 V AC/RMS 50Hz
- Insulation Resistance: 5000 MΩ at 500 VDC
- Temperature Rating: -20°C to +80°C, Low temp cable flexibility
- Cable Jacket: TPU
- Pressure Rating: Submersible to 30 meters
- Sealing Method: Serviceable O-ring in plug with no parting line in groove

US Patent 9,368,907

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