ADVANTAGES OF OVERMOLDING

- Waterproof sealing
- Robust mechanical protection
- Permanent protection of terminations
- Resistance to chemicals and fuels
- No induced cold flow stress
- Electrical isolation and insulation
- Reduced wear damage
- Flexible routing and cable entry
- Repeatable assembly performance

Glenair overmolded cable assemblies may be supplied with materials such as Viton®, Duralectric™, polyurethane, EPDM, Santoprene™, or polyamide to optimize harsh-environment performance for the Oil & Gas industry. Assemblies may be specially shielded with conductive overbraiding for superior mechanical protection, flexibility, and resistance to RFI and other forms of electromagnetic interference. Fast turnaround and quality fabrication in overmolded cable assemblies depends on capital investment in tooling, injection molding equipment, planetary wire stranders, and braiding machines.
DURALECTRIC™ APPLICATION AND MATERIAL PROPERTIES

Duralectric™ is high-performance elastomeric material for use as wire insulation, cable jacketing, conduit jacketing, cable/conduit overmolding, and molded boots. Perfectly suited for immersion, chemical or caustic fluid exposure, temperature extremes, UV radiation and more.

- Service temperature range: -65°C to 225°C
- Duralectric K (Kelvin) range: -110° to 225°C
- Fire-resistant, Low Smoke-Zero Halogen (LSZH)
- Mil-aero and industrial fluid-resistant
- Accelerated UV/sunlight resistant, 53 year equivalent exposure
- Ozone resistant IAW ASTM D1149
- Moldable and extrudable

DURALECTRIC™ APPLICATION SHOWCASE

- Bulk jacketed Duralectric™ cable with TurboFlex® flexible power cabling for harsh-environment power applications with cable routing challenges
- Complex multibranch overmolded cable assembly with rugged Duralectric™ jacketing
- Turboflex® power pylon cable assembly with Duralectric™ Jacketing
- Shipboard application with Duralectric™ jacketing and overmolding
- Duralectric™ jacketing employed in environmental commercial application
Turnkey connectorized flex/PCB cable assemblies incorporating Glenair’s broad range of innovative small form-factor circular and rectangular PCB connector solutions. All terminations backpotted for compliance with conformal coating processes.

GLENAIR SIGNATURE PCB CONNECTOR TYPES AVAILABLE IN TURNKEY FLEX ASSEMBLIES

Series MWD Micro-D and innovative pogo-pin AlphaLink
Series 88 SuperFly
Series 79 Micro-Crimp
SuperSeal RJ45 and USB
**TURNKEY**

PCB/Flex Circuit Assemblies with Glenair signature PC tail connectors

MULIBRANCH FLEX / PCB ASSEMBLIES WITH GLENAIR SIGNATURE CONNECTORS

- Space-grade Micro-D flex assembly with NASA EEE-INST-002 screening
- High-shock matched-impedance Mighty Mouse assembly with flex circuit
- Space-grade Series 28 HiPer-D to Series 80 Mighty Mouse I/O jumper
- Dual-gang series 20 Super-Twin™ I/O connector to AlphaLink SL PCB connector
- Stacked Micro-D I/O connectors with flex jumper to rigid PCB assembly
- Hybrid flex/rigid flex multibranch Micro-D and Series 23 SuperNine flex assembly with discrete RF circuits

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