

Amphenol[®] EC Systems

Amphenol EC Systems is THE leading provider of Service Loops, Cable Assemblies and Customized Cable Solutions to the drilling equipment industry.

Expertise

We leverage 30 years of unparalleled experience, depth of product offering, and process expertise.

Quality

With premium components and proven processes, Amphenol delivers market-leading quality.

Commitment

We are committed to being **the** leader of ruggedized cable solutions for the harshest environments.

Our Focus:

Oil & Gas power, control & instrumentation cable assemblies utilizing primarily Amphenol Starline/Starline-EX connectors.

Special Processes:

- High quality, low to high volume certified cable assembly and value-add facility.
- High Potential (HIPOT), continuity, and insulation testing on 100% of assemblies.
- Service loop & connector potting for enhanced reliability.



ISO certified Quality Management System



Service loops



Cable Assemblies



Customized Value-Add



The most reliable, durable, cost-effective cable solutions on the market. Period.

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The Amphenol[®] Advantage

EC Systems

As drilling equipment and, specifically, Top Drive Systems travel up and down in the drilling mast, a robust and reliable umbilical is necessary to provide electrical and hydraulic power and controls from the rig to the equipment.

Inside Our Service Loops:

Connectors

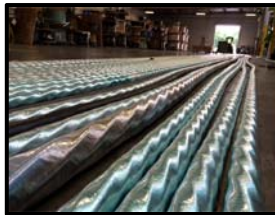
- Industry Standard Starline Connectors
- Provides quick rig-up/rig-down time
- Certified for Zone 1-IIc hazardous locations
- Terminated & tested by skilled technicians
- Alternatives available upon request

Amphenol[®]



Cable

- Certified Type P cables for high-flex, VFD, instrumentation, and control
- Industry-leading temperature range
- Superior oil, chemicals, & mud resistance
- Superior abrasion, crush, & impact resistance
- Bundled with calculated spiral pitch to neutralize cyclical stresses during dynamic operation & reduce noise in VFD applications
- Flame retardant to customer specifications



Flanges

- Engineered attachment to cover, fully supports cable bundle
- Nickel-plated or stainless steel
- Internal expansion ensures strongest, most compact, & lightest assembly possible
- Eliminates tensile stresses on cables
- Can be custom built to meet specific requirements



Polymer Potting

- All loops secured at flange ends with proprietary adhesive to support cable weight
- Dynamic loops fully potted with pliable polyurethane to eliminate conductor failures caused by constant flexing
- Thermally conductive material critical for heat transfer in power loops



Photo courtesy GS Polymer

Covers

- Support and protect internal bundle from abrasion, mechanical damage, & harsh environmental elements
- Standard or Custom Specifications
- Custom lay lines applied straight as visual indicator that installed service loop has not been twisted
- Private labeling capabilities

