Amphenol Industrial Interconnect
Products for Severe Environments

SL-395-6

STAR-LINE®,
STAR-LINE EX®,
Heavy Duty Power Connectors

AMPHE-EX™
Miniature Explosion Proof Connectors with High Speed Contacts

CABLE GLANDS
For Explosion Proof & Hazardous Environment Interconnects

Contact Information:
4300 N. Sam Houston Parkway West,
Suite 400
Houston, TX 77086
For Connector Requirements Call: 1-888-364-9011
For Value Add Opportunities Call: 1-281-866-0595

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Pyle Star-Line® Connectors

Reference Catalog 12-004

**APPLICATION**
- Heavy duty, environmental cylindrical connectors for high amperage and high temperature control and instrumentation applications. Rugged, double lead threaded. 20/20 design.

**STANDARDS/ REQUIREMENTS**
- MIL-C-5015 E
- UL listed
- CSA listed

**COUPLING/ MOUNTING**
- Double lead Acme threads provide complete coupling in one turn of the coupling nut, and do not clog under adverse weather conditions.
- Large wiring space provided in cable housings and conduit fitting bodies.

**CONTACT TERMINATION**
- Solder, crimp and pressure terminals. Circuit breaking power and control type.
- Operating temp. from –40°F to +257°F. IP67 rating for environmental sealing. Small package other than EX proof connectors. UL38999 type insert arrangements which provides proven performance and can incorporate multiple contact types.

**PERFORMANCE/ E N V I R O N M E N T**
- ATEX certified to Zone 1, Div. 1, Exd for plugs.
- ATEX certified to Zone 1, Div. 1, Exe for receptacles.

**OPTIONAL FEATURES**
- 3 shell styles available.
- Most of the insert patterns that are available within the Amphe-Line Series. See catalog 12-004.
- Design flexibility with signal, power, RF or fiber available in the same package.

**MARKETS**
- Mass Transportation
- Railway
- Co Generation Equip.

**Rig-Lok**

Reference Datasheet 915-35

**APPLICATION**
- Heavy duty, environmental single pole power connectors; inter-connect solutions. High amperage applications; cable ranges from 1 to 40 amp through 777 MCM sizes.

**STANDARDS/ REQUIREMENTS**
- UL listed
- CSA listed

**COUPLING/ MOUNTING**
- Double lead Acme threads provide complete coupling in one turn of the coupling nut, and do not clog under adverse weather conditions.
- Large wiring space provided in cable housings and conduit fitting bodies.

**CONTACT TERMINATION**
- Solder, crimp and pressure terminals. Circuit breaking power and control type.
- Operating temp. from –40°C to +257°C. IP67 rating for environmental sealing.
- Hard anode coating provides dielectric strength with heat and corrosion resistance. Up to high amperage of 1135 amps at 1000VAC or DC rating available.

**PERFORMANCE/ E N V I R O N M E N T**
- Connector series offers reverse bent type coupling, with overmolded and encapsulated coupling nut for ease of mating/ un-mating.
- Multiple keyway options available offer protection from cross mating separate circuits.
- Connector sets offer crimp type panel mount receptacles offer business for lug bolt interconnections.

**OPTIONAL FEATURES**
- SIR 08 0100X
- Radsok contact design features allow for significantly reduced mounting footprint compared to competitive products.

**MARKETS**
- Power Generation
- Wind Energy
- Oil Exploration & Production Equip.
- Power Distribution Equip.

Pyle Star-Line EX® Connectors

Reference Catalog 12-004

**APPLICATION**
- Heavy duty, environmental cylindrical connectors for high power applications which intermittently operate in potentially explosive environments. Rugged, double lead threaded EX designs.

**STANDARDS/ REQUIREMENTS**
- UL listed
- CSA listed

**COUPLING/ MOUNTING**
- Double lead Acme threads provide complete coupling in one turn of the coupling nut, and do not clog under adverse weather conditions.
- Large wiring space provided in cable housings and conduit fitting bodies.

**CONTACT TERMINATION**
- Solder, crimp and pressure terminals. Circuit breaking power and control type.
- Operating temp. from –40°C to +257°C. IP67 rating for environmental sealing.
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**MARKETS**
- Power Generation
- Wind Energy
- Oil Exploration & Production Equip.
- Power Distribution Equip.

Neptune

Consult Amphenol Industrial for information.

**APPLICATION**
- Heavy duty, environmental cylindrical connectors for high amperage applications. Straight plugs, inline and panel mount receptacles, and angle mounting boxes available.

**STANDARDS/ REQUIREMENTS**
- UL listed to UL 1982 for power connectors.
- Amperage ratings include: 30, 60, 100, 150 and 200 amps.
- CE and CSA pending.

**COUPLING/ MOUNTING**
- Double lead Acme threads provide complete coupling in one turn of the coupling nut, and do not clog under adverse weather conditions.
- Large wiring space provided in cable housings.

**CONTACT TERMINATION**
- Pressure terminated contacts for tool-less terminations.
- Operating temp. from –40°F to +257°F. IP67 rating for environmental sealing.
- Hard anode coating provides dielectric strength with heat and corrosion resistance. Amperage ranges from 30 through 200 amps at 600V with various wire/gauge configurations that include 2/2, 3/3, 3/4, 4/4 and 4/5.

**PERFORMANCE/ E N V I R O N M E N T**
- Incorporated into the Star-Line shell which provides all the advantages for heavy duty industrial usage, in a single pole interconnection. Double lead Acme threads. Cable adapters provide simple wire termination spacing.

**OPTIONAL FEATURES**
- Several styles available for dead front pin (line side) or socket contact (load side). Plugs, cable receptacles, panel mount receptacles.
- RIG-Power inserts are available with standard contacts.
- Field reworkability reduces equipment downtime.

**MARKETS**
- Oil Exploration and Production Equipment
- Power Generation Applications, Co-Generation Equip.
- Offshore Drilling Platforms

Amphe-EX™ Connectors

Consult Amphenol Industrial for information.

**APPLICATION**
- Heavy duty, environmental single pole power connectors; inter-connect solutions. High amperage applications; cable ranges from 1 to 40 amp through 777 MCM sizes.

**STANDARDS/ REQUIREMENTS**
- UL listed
- CSA listed

**COUPLING/ MOUNTING**
- Double lead Acme threads provide complete coupling in one turn of the coupling nut. Will not clog under adverse weather conditions. Hard anode coating provides dielectric strength with heat and corrosion resistance. Socket feed cleaning feature assists in mating. Adapters provide simple wire termination spacing.

**CONTACT TERMINATION**
- Multiple contact types can be used with Copper contacts and high speed coax connections in the same arrangement. Fiber optics can also be incorporated using industry proven peroxide shrink method.

**PERFORMANCE/ E N V I R O N M E N T**
- Operating temp. from –45°C to +65°C. IP67 rating for environmental sealing.
- Hard anode coating provides dielectric strength with heat and corrosion resistance.
- Standard inserts available for up to 600 VAC, 850 VDC.

**MARKETS**
- Oil Exploration and Production Equipment
- Data Acquisition & Transmission in EX Areas
- Robotics, Process and Motion Control
- Chemical, Paint & Pharmaceutical Facilities, Fuel Storage Areas

Rig-Power® Connectors

Consult Amphenol Industrial for information.

**APPLICATION**
- Single pole power inserts with increased amperage and voltage capability within the heavy duty Star-Line connect- or. Designed to perform in the harshest environments. 1000VAC/ DC capability.

**STANDARDS/ REQUIREMENTS**
- UL listed
- CSA listed

**COUPLING/ MOUNTING**
- Double lead Acme threads provide complete coupling in one turn of the coupling nut, and do not clog under adverse weather conditions.
- Large wiring space provided in cable housings.

**CONTACT TERMINATION**
- Pressure terminated contacts for tool-less terminations.
- Operating temp. from –40°F to +257°F. IP67 rating for environmental sealing.
- Hard anode coating provides dielectric strength with heat and corrosion resistance. Amperage ranges from 30 through 200 amps at 600V with various wire/gauge configurations that include 2/2, 3/3, 3/4, 4/4 and 4/5.

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- RIG-Power inserts are available with standard contacts.
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**MARKETS**
- Oil Exploration and Production Equipment
- Power Generation Applications, Co-Generation Equip.
- Offshore Drilling Platforms

Rig-Lok

Reference Datasheet 915-35

**APPLICATION**
- Heavy duty, environmental single pole power connectors; inter-connect solutions. High amperage applications; cable ranges from 1 to 40 amp through 777 MCM sizes.

**STANDARDS/ REQUIREMENTS**
- CSA listed

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- Double lead Acme threads provide complete coupling in one turn of the coupling nut. Will not clog under adverse weather conditions. Hard anode coating provides dielectric strength with heat and corrosion resistance. Socket feed cleaning feature assists in mating. Adapters provide simple wire termination spacing.

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- Oil Exploration and Production Equipment
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- UL listed
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- Double lead Acme threads provide complete coupling in one turn of the coupling nut, and do not clog under adverse weather conditions.
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Cable Assemblies (Over-molded, Standard Terminations and Hazardous Listed)

Consult Amphenol Industrial for information.

APPLICATION

Cable assemblies can be designed using most any cable specified. Connectors may include Amphenol specified products or any other customer requested interconnect solution.

STANDARDS/ REQUIREMENTS

Simple terminations using standard backshells; custom over-molded or hazardous listed product cable assemblies available.

COUPLING/ MOUNTING

Coupling types are based on customer connector specifications. Threaded, bayonet or reverse bayonet options available as standard.

CONTACT TERMINATION

Termination styles are design specific based on customer connector requirements.

PERFORMANCE ENVIRON.-ELECT.

Standard terminations offer various IP rated backshelled solutions. Over-molded assemblies offer molded seal to rear hardware of the connectors, offering significantly improved moisture sealing. Hazardous listed assemblies offer full backshell potting sealing, or EX rated cable glands.

OPTIONAL FEATURES

• Molds are designed to specific application specifications.
• Variety of materials: Neoprene, Hypalon and others.
• Personalization/special stamping (such as company logo or cable part number) on the overmolds is available.

MARKETS

• GEN-Lok Power Connectors
• Cable Assemblies available
• Customized Cables and Connectors

DHR (Down-hole Rotatable)

Consult Amphenol Industrial for information.

APPLICATION

Down-hole tools require highly reliable interconnects. The DHR series is compatible with Bluestar and Terminator Rotary tools.

STANDARDS/ REQUIREMENTS

VFD or SCR Drive Building Power Systems
• Mud Pump Power Supply
• Portable Power Distribution and Generation Systems

COUPLING/ MOUNTING

Pin contacts are crimp type; back side of panel to busbar per phase. Terminated to tags on side.

CONTACT TERMINATION

Rackard contacts offer higher ampereage rating, and reduced mating forces than crimped electrical contacts. High ampereage applications, ranging up to 1135 amp per phase, with up to 3 contacts per row standard.

PERFORMANCE ENVIRON.-ELECT.

High pressure and high temperature as per the down-hole industry requirements.

OPTIONAL FEATURES

• Measurement while drilling
• Directional drilling

MARKETS

• Measurement while drilling
• Directional drilling

Submerator Dry Mate Underwater Connectors

Consult Amphenol Industrial for information.

APPLICATION

Designated for rugged underwater electrical interconnect applications. Submerator is made of rugged metal shells, and oversized pins to ensure reliable performance in extreme demanding environments.

STANDARDS/ REQUIREMENTS

Cable assemblies available
• Customized Cables and Connectors

COUPLING/ MOUNTING

Incorporated into the Star-Line shell which provides all the advantages for heavy duty industrial usage, in a smaller package than competitive connectors with variable frequency drive conditions. Double lead Acme threads. Cable adapters provide ample wire termination spacing.

CONTACT TERMINATION

Pressure terminated RADSOK® socket contacts and mating pins used to achieve high amperages. Pressure style termination also available.

PERFORMANCE ENVIRON.-ELECT.

VFD inserts with RADSOK provide significantly reduced insertion forces vs. comp-itive product. Lower temp: rise allows for higher current in a smaller package. Inserts are rated to 680 volt, 1000 volts. Star-Line anodic hardcoat plating provides corrosion resistance as well as dielectric strength.

OPTIONAL FEATURES

• Oil Exploration and Production Equip., Power Generation
• Variable Frequency Top Drive Motors

MARKETS

• ROV’s
• AUV’s
• Sonar Systems
• Submersible Pumps
• Underwater Cameras and Lighting
• Diving Equip.
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