

Raychem

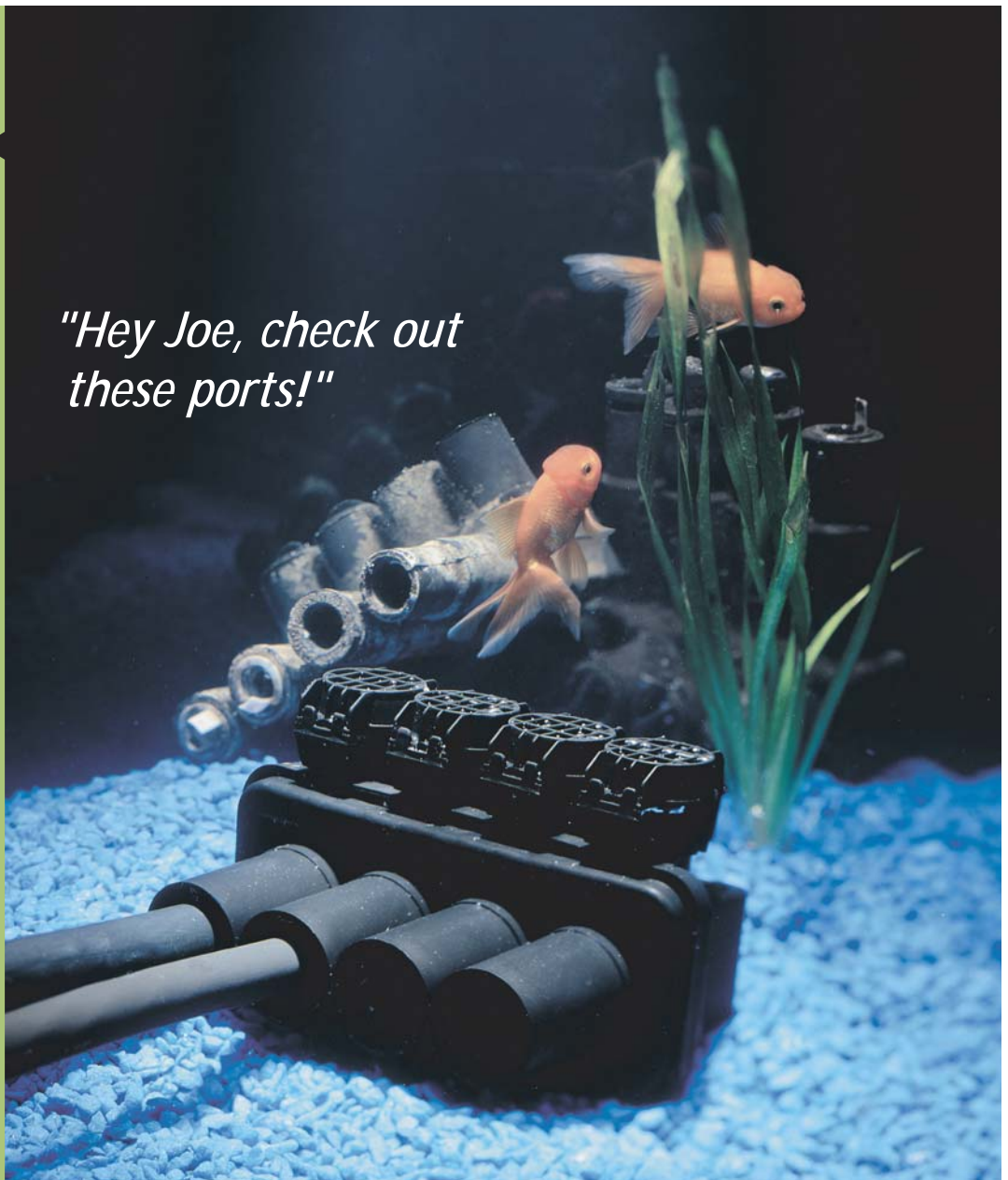


AMP

SIMEL



AXICOM



"Hey Joe, check out these ports!"

Introducing Gel-Filled Gelport

Submersible secondary connectors that raise the bar for an easy hook-up. No boots to trim, no loose parts to scatter, and no corrosion. The gel-filled ports and covers deliver lasting performance even under water.

For a free sample kit or current catalog visit our website.

tyco
Electronics

Energy Division

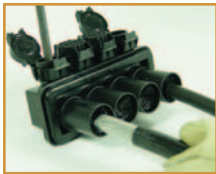
800-327-6996

energy.tycoelectronics.com/TD

W H Y C H O O S E G E L P O R T ?



GelPort submersible secondary connectors are the only insulated bus bar connectors on the market that incorporate PowerGel sealant technology. Versatile and easy to install, the GelPort connector requires fewer decisions, has no loose parts, and does not require lubricant for installation. GelPort dramatically reduces corrosion issues resulting in longer service life and greater customer satisfaction.



Availability and Use:

- 3, 4, 5, 6, & 8 port configurations
- Cable range from #12 - 350 kcmil
- Rated for up to 600V



PowerGel Ports:

- Provide broader surface sealing area
- Seal on full range of cable without trimming
- Easy to install, even when wearing gloves



PowerGel Caps:

- Gel-filled caps with latching design ensure moisture-tight seal
- Hinged to body; cannot be lost
- Easy to open and close, even when wearing gloves



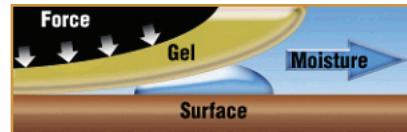
Rugged Co-polymer Housing:

- Superior puncture-, impact-, and UV-resistance



High Conductivity Aluminum:

- Tin-plated 6061-T6 aluminum alloy ensures conductivity and corrosion protection



PowerGel Sealant:

- Cross-linked silicone with 20 years of installed performance
- When compressed, conforms to cable surface creating moisture-tight seal
- Maintains elastic memory in extreme temperatures
- 95°C rated



Minimized Air Space:

- Unlike other designs, gel-filled ports encapsulate cables to minimize air space where corrosion can occur.



Existing designs allow moisture ingress:

- Requires trimming of rocket boot seals to correct cable size
- Loose caps can be left off or lost
- Rubber housing is susceptible to pinholes and punctures

Submersible Secondary Connectors

Who Needs GelPort?

- Utility companies and contractors
- Street lighting contractors
- Military facilities
- Manufacturing and chemical facilities

What About Performance?

Housing

Impact Strength	ASTM D256
Tensile Strength	ASTM D412
Elongation	ASTM D412
Dielectric Strength	ASTM D149
Fungi Resistance	ASTM G21
UV Resistance	ISO 4892/3

Gel

Dielectric Strength	ASTM D149
Fungi Resistance	ASTM G21
UV Resistance	ASTM G53-8
Resistance to Liquids	ASTM D543
Flammability	UL-94

Connector

ANSI 119.4

GelPort Connector

ANSI 119.1



Submersible Secondary Connectors

GelPort Submersible Secondary Connectors for URD Distribution

Demand the Best

- Corrosion resistance
- No loose parts
due to one piece housing
- Gel-filled cable entry ports
provide a repeatable, reliable cable seal
- PowerGel sealant
seals out harsh environments.
- Rugged, impact-resistant housing
stands up to rough installations.



Hinged cap



Gel-filled ports



Submersible performance



Fast, reliable installation - every time

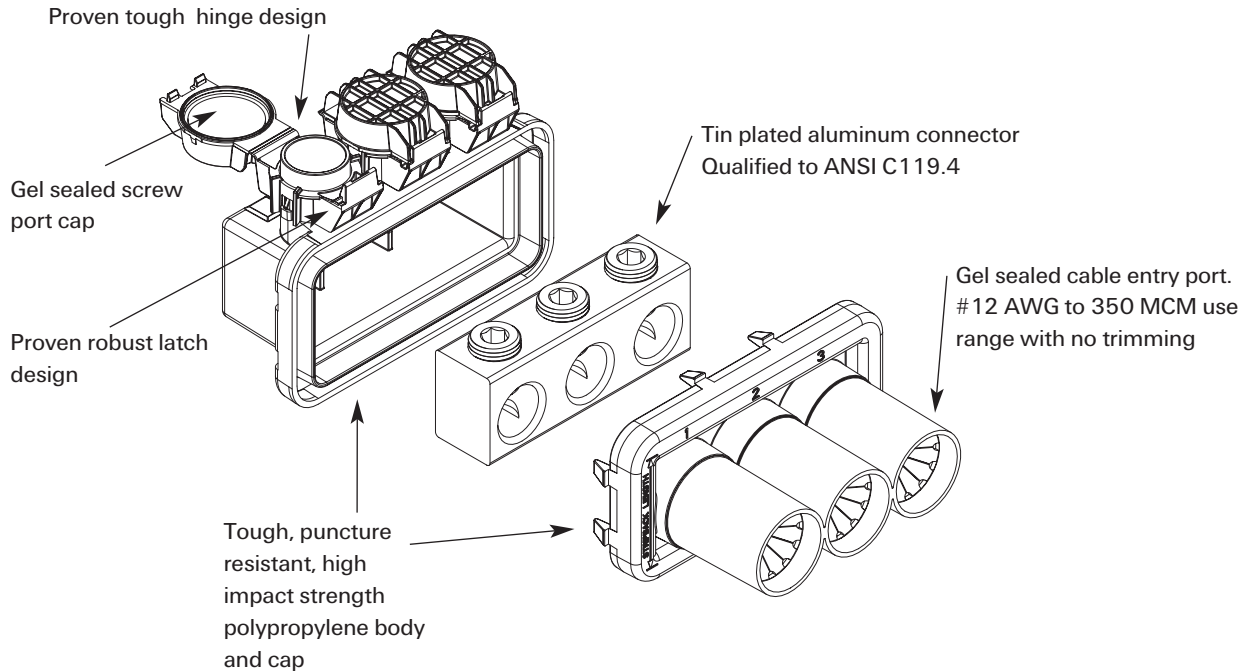
The GelPort connection system represents a revolutionary product for secondary connectors. Strip the cable and push it into the gel-filled cable port. The cable is encapsulated in gel and instantly sealed. It's that simple.

PowerGel Sealant gel

PowerGel sealant was specifically developed for the electrical power industry. It consists of a chemically cross

linked silicone elastomer swollen with a silicone oil. PowerGel sealant is hydrophobic and provides an excellent moisture seal over a wide operating temperature range (-40° C to 95° C). It is compatible with solid dielectric cable insulation and connector deoxidizing greases and has excellent insulation properties.

Catalog Number	Number of Wire ports	Conductor Use Range (mm ²)	Length	Width	Height
GPRT-350-3P	3	12-350 (4-150)	4.6 (117)	3.8 (97)	3.5 (89)
GPRT-350-4P	4	12-350 (4-150)	5.8 (149)	3.8 (97)	3.5 (89)
GPRT-350-5P	5	12-350 (4-150)	7.1 (180)	3.8 (97)	3.5 (89)
GPRT-350-6P	6	12-350 (4-150)	8.3 (212)	3.8 (97)	3.5 (89)
GPRT-350-8P	8	12-350 (4-150)	10.8 (276)	3.8 (97)	3.5 (89)



Testing	Test Condition
Assembled	
Gelport connector	ANSI C119.1, 2002
Connector	ANSI C119.4, 2003
Chemical Resistance	ASTM D543 to the following liquids: Sulfuric Acid, Sodium Sulfate, Sodium Chloride, Sodium Hydroxide, Ethylene Glycol
UV Resistance	ASTM G-53-95, ASTM-D-638-95
Amperage rating:	525 amps at 90 °C, to ANSI C119.1 - 2002 section 3.3

All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct and reliable. Users, however, should independently evaluate the suitability of each product for the desired application. Under no circumstances does this constitute an assurance of any particular quality or performance. Such an assurance is only provided in the context of our product specifications or explicit contractual arrangements. Our liability for these products is set forth in our standard terms and conditions of sale. PowerGel, GelPort, ALR, AMP, AXICOM, B&H, Bowthorpe EMP, Dorman Smith, Dulmison, Hellstern, La Prairie, Morlynn, Raychem, and SIMEL are trademarks.



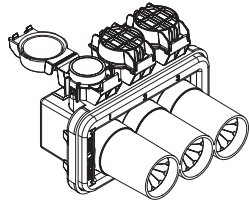
Energy Division – a pioneer in the development of economical solutions for the electrical power industry. Our product range includes: Cable accessories, connectors & fittings, electrical equipment, instruments, lighting, insulators & insulation enhancement and surge arresters.



For more information and your country contact person, please visit us at:
<http://energy.tycoelectronics.com>



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GelPort

Submersible Secondary Connector

Gel-filled insulated busbar for submersible applications up to 600V

#12 - 350 kcmil (4 - 180 mm²)

ENERGY DIVISION

1. General Product Information

GelPort submersible secondary connectors are used to connect URD cables up to 600V. GelPort connectors are available with 3, 4, 5, 6, or 8 ports, and can accommodate aluminum or copper cables.

Suggested Installation Equipment

- 5/16" hex wrench
- Flathead screwdriver (optional)
- Marking tape or white pencil

Safety Instructions

Warning: When installing electrical power system accessories, failure to follow applicable personal safety requirements and written installation instructions could result in fire or explosion and serious or fatal injuries.

As Tyco Electronics has no control over field conditions which influence product installation, it is understood that the user must take this into account and apply his own experience and expertise when installing product.

2. Installation Instructions

1. Remove the shipping cap from the cable port.
 2. Clean 6" of cable jacket.
 3. Mark the cable 3-3/4" from the end with tape or a white pencil.
 4. Remove 1-3/4" of insulation from the conductor. Use strip guides on the product to determine proper measurement.
 5. Snap open the screw cap using fingers or a small flathead screwdriver to open the latch.
 6. Using a 5/16" hex wrench, rotate the screw counter-clockwise to raise it approximately 3/4".
 7. Insert the cable into the port until the mark or tape is flush with the end of the cable port. Conductor should bottom out against the back of the GelPort housing, and be seated within the connector.
 8. Tighten the screw per torque guide in Table 1.
 9. Pull the cable to make sure the connection is tight.
- Note: If cable pulls out, it is likely that the screw was not raised sufficiently in step 6 to allow the cable to enter completely. Try again, raising the screw farther.*
10. Close the cap, making sure that the latch snaps into place.
 11. Repeat for other cables.
 12. Installation is complete and product is ready for service.

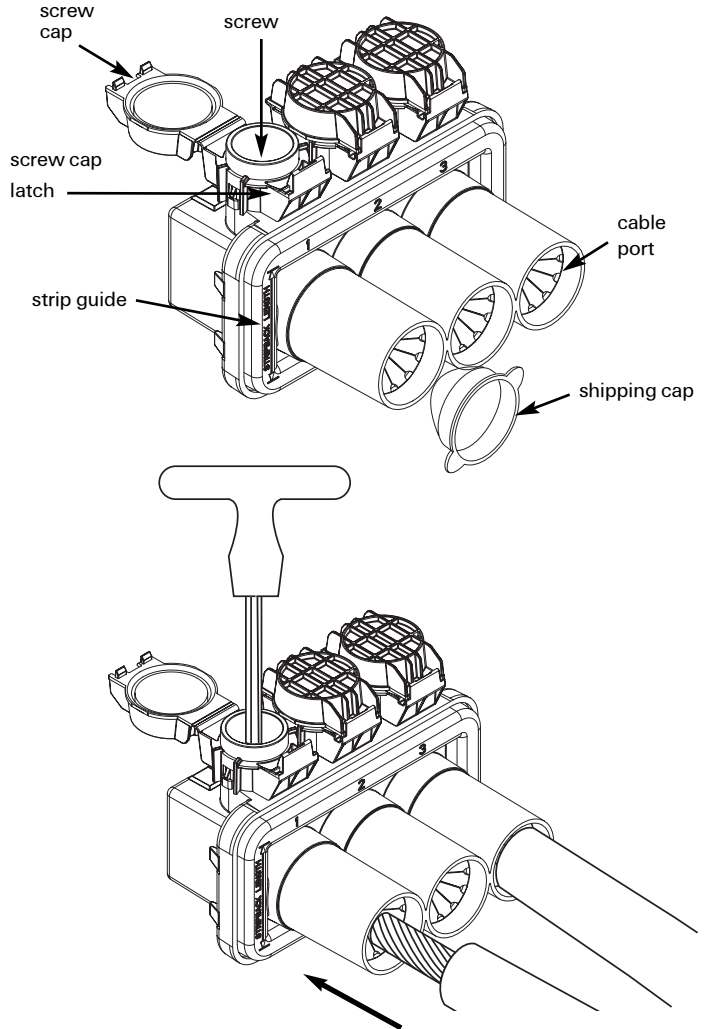


Table 1

Conductor Size	Recommended Torque Range
#12 - #6	125 - 175 in./lbs.
#4 - 1/0	225 - 275 in./lbs.
2/0 - 350	275 - 350 in./lbs.

GelPort is a trademark of Tyco Electronics Corporation.

The Information contained in these installation instructions is for use only by installers trained to make electrical power installations and is intended to describe the correct method of installation for this product. However, Tyco Electronics has no control over the field conditions which influence product installation. It is the user's responsibility to determine the suitability of the installation method in the user's field conditions. Tyco Electronics' only obligations are those in Tyco Electronics' standard Conditions of Sale for this product and in no case will Tyco Electronics be liable for any other incidental, indirect or consequential damages arising from the use or misuse of the products. Raychem is a trademark of Tyco Electronics Corporation.