



Seal-Connect in Aerospace & Defense

The industry leader in custom-sealed connectivity solutions for the world's toughest environments, **Greene Tweed's Seal-Connect® product line has evolved over 30 years of experience.** We develop and apply proven solutions that meet critical power and data requirements for the aerospace and defense industry.

Seal-Connect Electrical Portfolio

Mechanical:

- Rated to 232°C (450°F) and up to 35,000 psi, with specialized designs for 260°C (500°F) and 45,000 psi
- High resistance to cycled shock and vibration

Materials

- PEEK and PEK withstand extreme HPHT environments
- Excellent chemical compatibility and high electrical resistance

Custom Designs

- In-house experienced engineers available



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Material Advantages Compared to Traditional Glass to Metal

Internal Sealing

- Seal extends along the length of the metal pin resulting in a more durable and reliable bond

Weight Savings

- Smaller contact pin diameters enable higher pin density and more flexibility in the pin pattern design

Optimization of Electrical Properties

- CTE doesn't need to be matched with metal
- Beryllium Copper (BeCu) can be selected as the contact pin material, providing lower electrical resistance

High Performing Materials: Arlon 3000XT®

- Proprietary cross-linked PEEK formulated for extreme high temperature environments and applications
- Proven performance at high temperatures ranging from 260°C to 300°C
- Compared to competitors, Arlon 3000XT® performed better when tested at 300°C and fluid aged for 112 days (ASTM D638)
- Available in net or near net molded, injection molded custom or stock shapes

Seal-Connect Optical Portfolio

Mechanical:

- Withstand up to 25,000 psi and 347°F (175°C)
- Standard products pressure rated up to 5,000 psi and temperature tested from -55°C to 85°C
- Performs well in shock and vibration environments

Signal

- Typical light loss is less than 0.5 dB

Temperature- and Humidity-Resistant

- 0.5 dB maximum insertion loss



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Seal-Connect Fiber Optic Standard Part Offerings

Fiber Optic Cables

Adapters

Connector Kit

Permanent Bulkhead Feedthrough

Cable Couplers


Fiber Optic Cables	
Standard Part Number	Product Description
500-FFC-SX-N01-XXX	FC Dry™ HP Optical Cable/Patch Cord Assembly – 3 mm OD Cable
500-FST-SX-N01-XXX	ST Dry™ HP Optical Cable/Patch Cord Assembly – 3 mm OD Cable
500-JFC-SX-N01-XXX	FC Armored SS Optic Cable Assembly – 4 mm OD Cable (Green)
500-JST-SX-N01-XXX	ST Armored SS Optic Cable Assembly – 4 mm OD Cable (Green)
500-KFC-SX-N01-XXX	FC Armored SS Optic Cable Assembly – 6.5 mm OD Cable (Green)
500-KST-SX-N01-XXX	ST Armored SS Optic Cable Assembly – 6.5 mm OD Cable (Green)
500-LFC-SX-N01-XXX	FC Armored SS Optic Cable Assembly – 4 mm OD Cable (Yellow)
500-LST-SX-N01-XXX	ST Armored SS Optic Cable Assembly – 4 mm OD Cable (Yellow)
500-MFC-SX-N01-XXX	FC Armored SS Optic Cable Assembly – 6.5 mm OD Cable (Yellow)
500-MST-SX-N01-XXX	ST Armored SS Optic Cable Assembly – 6.5 mm OD Cable (Yellow)
500-PFC-SX-N01-XXX	FC Optical Pigtail Assembly – 3 mm OD Cable
500-PST-SX-N01-XXX	ST Optical Pigtail Assembly – 3 mm OD Cable
Adapters	
Standard Part Number	Product Description
500-ASF-BS-B01-000	ST DRY™ to FC DRY™ Adapter with nickel plated brass body and face seal
500-ASF-BS-N01-000	ST DRY™ to FC DRY™ Adapter with nickel plated brass body
500-ASF-SS-B01-000	ST DRY™ to FC DRY™ HP Adapter with stainless steel body and face seal
500-ASF-SS-N01-000	ST DRY™ to FC DRY™ HP Adapter with stainless steel body
500-AFS-BS-B01-000	FC DRY™ to ST DRY™ Adapter with nickel plated brass body and face seal
500-AFS-BS-N01-000	FC DRY™ to ST DRY™ Adapter with nickel plated brass body
500-AFS-SS-B01-000	FC DRY™ to ST DRY™ HP Adapter with stainless steel body and face seal
500-AFS-SS-N01-000	FC DRY™ to ST DRY™ HP Adapter with stainless steel body

Connector Kit	
Standard Part Number	Product Description
500-CFC-SS-N01-000	FC DRY™ HP Connector with stainless steel body
500-CFC-BS-N01-000	FC DRY™ Connector with nickel plated brass body
500-CST-SS-N01-000	ST DRY™ HP Connector with stainless steel body
500-CST-BS-N01-000	ST DRY™ Connector with nickel plated brass body
Permanent Bulkhead Feedthrough	
Standard Part Number	Product Description
500-BFC-SX-B01-000	FC DRY™ HP PBF with stainless steel body and face seal
500-BST-SX-B01-000	ST DRY™ HP PBF with stainless steel body and face seal
500-SFC-SX-B01-000	FC DRY™ HP short PBF with stainless steel body and face seal
500-SST-SX-B01-000	ST DRY™ HP short PBF with stainless steel body and face seal
500-BSF-SS-B01-000	ST DRY™ to FC DRY™ HP PBF with stainless steel body and face seal
500-BFS-SS-B01-000	FC DRY™ to ST DRY™ HP PBF with stainless steel body and face seal
500-SSF-SS-B01-000	ST DRY™ to FC DRY™ HP Short PBF with stainless steel body and face seal
500-SFS-SS-B01-000	FC DRY™ to ST DRY™ HP Short PBF with stainless steel body and face seal
Cable Couplers	
Standard Part Number	Product Description
500-EST-BS-N01-000	ST DRY™ Cable Coupler with nickel plated brass body
500-EFC-BS-N01-000	FC DRY™ Cable Coupler with nickel plated brass body
500-EST-SS-N01-000	ST DRY™ HP Cable Coupler with stainless steel body
500-EFC-SS-N01-000	FC DRY™ HP Cable Coupler with stainless steel body
500-EFS-BS-N01-000	FC DRY™ to ST DRY™ Cable Coupler with nickel plated brass body
500-EFS-SS-N01-000	FC DRY™ to ST DRY™ HP Cable Coupler with stainless steel body

Greene Tweed

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