

# Backshells and Accessories



**Esterline**  
Connection Technologies

**SUNBANK**

SUNBAN'S EXPERTISE & EXCELLENCE

SPACE & WEIGHT SAVING

HIGH VIBRATION PERFORMANCE

ELECTROMAGNETIC SHIELDING

ENVIRONMENTAL WIRE PROTECTIONS

FOD AND SHOCK PROTECTION

CONTINUITY AND SALT-SPRAY RESISTANCE

MODULARITY

AERONAUTIC CONNECTORS



## SUNBANK Values

RELIABILITY

TECHNICAL EXPERTISE

PROVEN DESIGN

## SUNBANK in the Aerospace Market

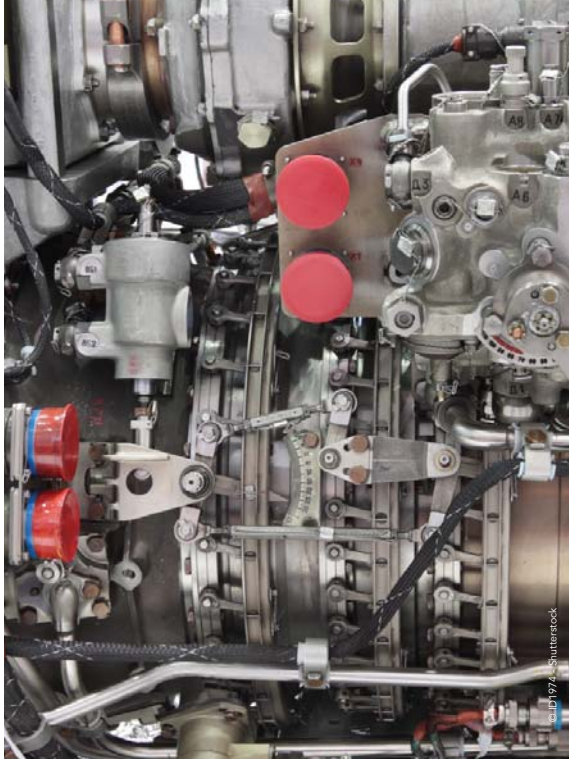
For over 50 years Sunbank has been supporting the interconnect market by designing highly reliable connector accessories and flexible conduit assemblies for harsh environments.

We proudly provide solutions for Aerospace, Defense, Marine, and Industrial power and signal interconnect markets, worldwide.

Joslyn Sunbank Corporation is a totally integrated manufacturer. Our facilities include their own engineering department, die-casting, brazing, machining, plating, braiding and assembly operations.



**Composite backshells**  
AS85049 qualified  
Up to 27% lighter than Alu  
EMI/RFI protection



## Space and weight saving

Backshells specifically designed to optimize mass and room

Lightweight solution integrating low profile or thin wall design  
Provides easier access to the wire routing in small spaces  
Developed for tight spaces where strain relief  
or EMI shielding is required



**Thin wall rectangular backshell**  
Aluminum conductive shell  
As light as composite design  
Various cable entry options



**Split backshells**  
Enhanced reparability  
Shell opened in 20s  
Circular & rectangular solution



**Self-seating technology**  
Patented locking system  
Exceeds standard criteria  
AS85049 qualified



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## High vibration performance

Robust solutions for harsh environment

Specific inner coating to reduce internal roughness  
Patented locking mechanism to secure the assembly  
Strain relief backshells for mechanical strength



**Strain relief backshell**  
Mechanical wire retention  
Stainless steel designs  
Drilled head screws available



**PTFE inner coating**  
Avoid wire chafing and short-circuit  
Selective protection possible  
For applications up to 200°C / 392°F



### Shielding accessories

Standard and mini bands  
AS85049 qualified  
Banding tool available



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## Electromagnetic shielding

EMI/RFI solutions to secure your cable harness

Several backshell - braid attachment solutions  
Build-to-spec shielded conduit systems  
Wide range of shielding materials to fit your requirements



### Flexible shielded conduits


Qualified on major landing gears  
Dual EMI shielding (2 layers) option  
Application specific adapters



### EMI backshells

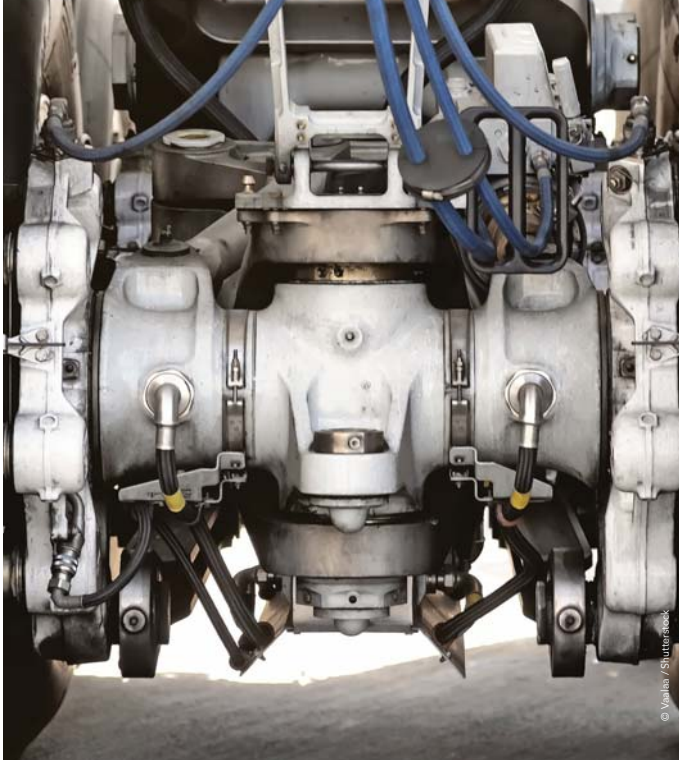
Simple or dual banding platform  
EMI and environmental solutions  
Strain relief and EMI/RFI adapters





### Outer jackets

Up to 230°C resistance  
Protection against fuel,  
cleaning & de-icing fluids  
Overall sealing



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## Environmental wire protections

Flexible conduits for insulation against external aggressions

Fire-resistant braids made of patented materials

Jackets to protect the wiring system from exposure to chemicals

Thermoplastic liners that offer crush resistance and flexibility of the system



### Multi-layer designs

Helix wire option for crush resistance  
Metallic braid against EMI or abrasion  
Braid or jacket for insulation



### Adapters and transitions

Multi-way transitions  
Bulkhead and feedthrough adapters  
Connector fittings



**Rectangular caps**  
For D-sub connectors  
Lightweight aluminum  
Conductive plating

## FOD and shock protection

Connector caps

Aluminum caps qualified to most Military specifications  
Multiple attachment and lanyard options  
Screw or bayonet coupling mechanisms



### Attachment solutions

Chain, Nylon or wire rope  
Retaining ring or eyelet  
Safety wire hole option



### Sealing gaskets

Conductive gasket solutions  
Fluid resistant rubber available  
According to Mil-R-3065 & Mil-R-25988



### Nickel PTFE plating

ROHS compliant  
Available for aluminum and  
composite material  
Up to 2000h salt spray



## Continuity and salt-spray resistance

High performance materials and platings

Aerospace grade metallic and composite materials

Mil-spec qualified on various finishes

Stainless steel material available



### Selective plating solutions

Electroless nickel banding platform  
Polysulfide barrier sealant stripes  
High corrosion resistant body



### Composite plated backshells

2,000 hours salt spray  
Continuity < 2,5mΩ  
AS85049 qualified





**Micro-D backshell**  
Mates to Mil-C-83513  
Thin wall design  
EMI/RFI band termination



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## Modularity

Multi-configuration rectangular backshells

Large variety of cable entry locations to fit your cable assembly  
Many entry styles adaptable on one same shell  
EMI/RFI protection and mechanical strength of the system



**D-sub backshell**  
Straight, 45° or 90° cable entry  
Split or one piece body  
Cable clamp, tie wrap or banding style



**Arinc 600 backshell**  
Designed for shell size 2 & 3  
Up to 11 cable entries  
Compatible with standard circular adapters



### Modularity

Get the opportunities to build custom to certified interconnection solutions



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## Aeronautic connectors

A full range of standard and custom solutions

Since 1917, SOURIAU designs, manufactures and markets high-performance connectors. SOURIAU connectors are designed to withstand the harshest environments including extreme temperatures, high vibration and corrosive fluids



### Weight saving

Composite connectors  
High density layouts



### Robustness

Superior strength in vibration  
High temperature & corrosion  
performance



### Space saving

Designed for applications  
where size is critical

*Reliable People, Reliable Solutions*



**SUNBANK**

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