AS85049/88/89/90 SERIES

SOURIAU
SUNBANK

EMI/RFI Composite Backshells

MIL-DTL Specification

Esterline
Connection Technologies

Features & Benefits

QPL

AS85049, D38999 & MS Qualified

SUNBANK offers a wide range of qualified products for your wiring assembly: backshells, caps & accessories.

HIGH RELIA-BILITY

Self-Locking

SUNBANK has developed 2 self-locking mechanisms to withstand high vibrations. Non self-locking option is also available for mild environments.

LIGHT-WEIGHT

High end Materials

Aerospace grade aluminum and composite materials are used to manufacture our products.

ENVIRON-MENTAL

Plating Compliance

Products are available in several surface finishes compliant with applicable environmental regulations.

EMI/ RFI

Signal Integrity

Many designs are available to facilitate shield attachment. Corrosion resistance and continuity are ensured by the material/plating combination.

Typical applications

Aviation

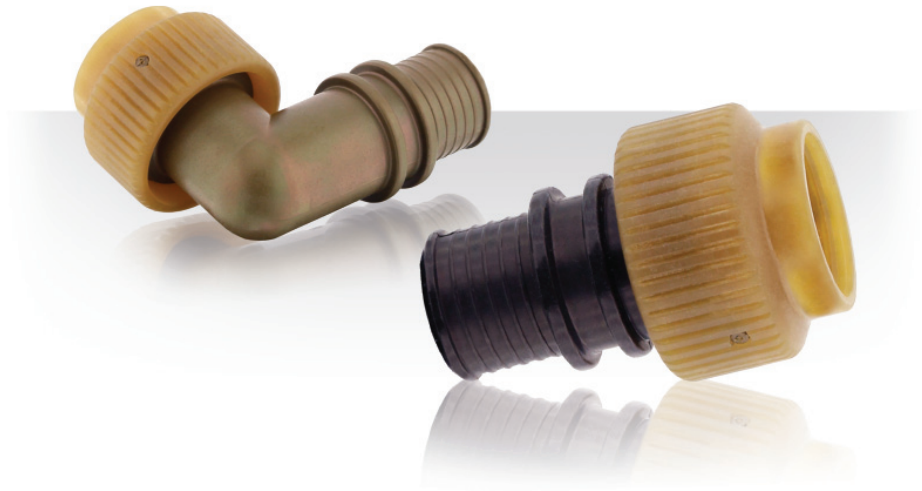
Ground Transportation

Industry

Military Aircraft

Ground Army

Military Marine



Description

- Self locking detent coupling
- Shrink boot groove
- Aluminum version also available

Technical features

Mechanical

- **Material:** PEI Aerospace grade
- **Plating:**
  Cadmium (AS85049 qualified)
  Nickel (AS85049 qualified - RoHS)
  Black Zinc Nickel
  Nickel teflon PTFE
- **Random vibration:**
  1.0g²/Hz, 100 to 2000Hz, 2x8 Hrs
  In accordance with EIA 364-28 test condition VI letter I
- **Shock:**
  980 m/s², 6 ms
  In accordance with EIA 364-27 condition C

Environmental

- **Operating temperature:**
  -65°C to +200°C
- **Salt spray:** 2000 hours
- **Fluid immersion:**
  According to EIA 364-10

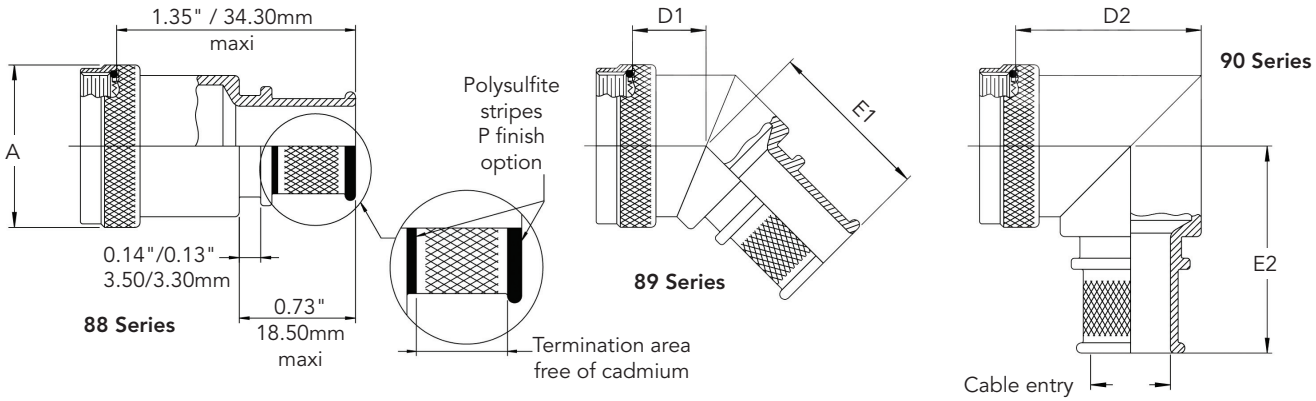
Electrical

- **EMI resistant**
- **Electrical continuity:** < 2.5 mΩ

Ordering information

Basic Series	AS85049/	88	-	11	N	02
Angle **88:** Straight **89:** 45° **90:** 90°						
Self-locking option **- :** Detent **N:** Non detent						
Shell size: 09, 11, 13, 15, 17, 19, 21, 23, 25						
Material and plating **J:** Composite, olive drab cadmium over electroless nickel, 1000 hours salt spray **M:** Composite, electroless nickel **N:** Aluminum, electroless nickel **P:** Aluminum, olive drab cadmium over electroless nickel with polysulfide sealant strips **W:** Aluminum, olive drab cadmium over electroless nickel, 1000 hours salt spray						
Entry size (see table next page)**: 02, 03**						

Dimensions



Shell size	Ø A maxi		D1 maxi		E1 maxi		D2 maxi		E2 maxi		Cable entry Size 02		Cable entry Size 03	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
9	0.858	21.8	1.010	25.70	1.160	29.50	1.375	34.90	1.417	36.00	N/A	N/A	0.250	6.40
11	0.984	25.1	1.030	26.20	1.190	30.20	1.437	36.50	1.480	37.60	N/A	N/A	0.312	7.90
13	1.157	29.4	1.060	26.90	1.210	30.70	1.562	39.70	1.553	39.40	0.312	7.90	0.438	11.10
15	1.279	32.5	1.080	27.40	1.240	31.50	1.687	42.80	1.614	41.00	0.438	11.10	0.562	14.30
17	1.406	35.7	1.110	28.20	1.260	32.00	1.750	44.50	1.678	42.60	0.500	12.70	0.625	15.90
19	1.516	38.5	1.120	28.40	1.270	32.30	1.875	47.60	1.773	45.03	0.625	15.90	0.750	19.10
21	1.642	41.7	1.150	29.20	1.300	33.00	1.938	49.20	1.796	45.60	0.625	15.90	0.812	20.60
23	1.738	44.9	1.170	29.70	1.330	33.80	2.062	52.40	1.859	47.20	0.688	17.50	0.938	23.80
25	1.889	48.0	1.200	30.50	1.350	34.30	2.125	54.00	1.919	48.70	0.750	19.10	1.000	25.40

Note: All dimensions are in inches and millimeters (inch/mm). For complete dimensions, see the applicable Military Specification.
Cable entry is defined as the envelope area of the cable or wire bundle. It is not intended for inspection criteria.

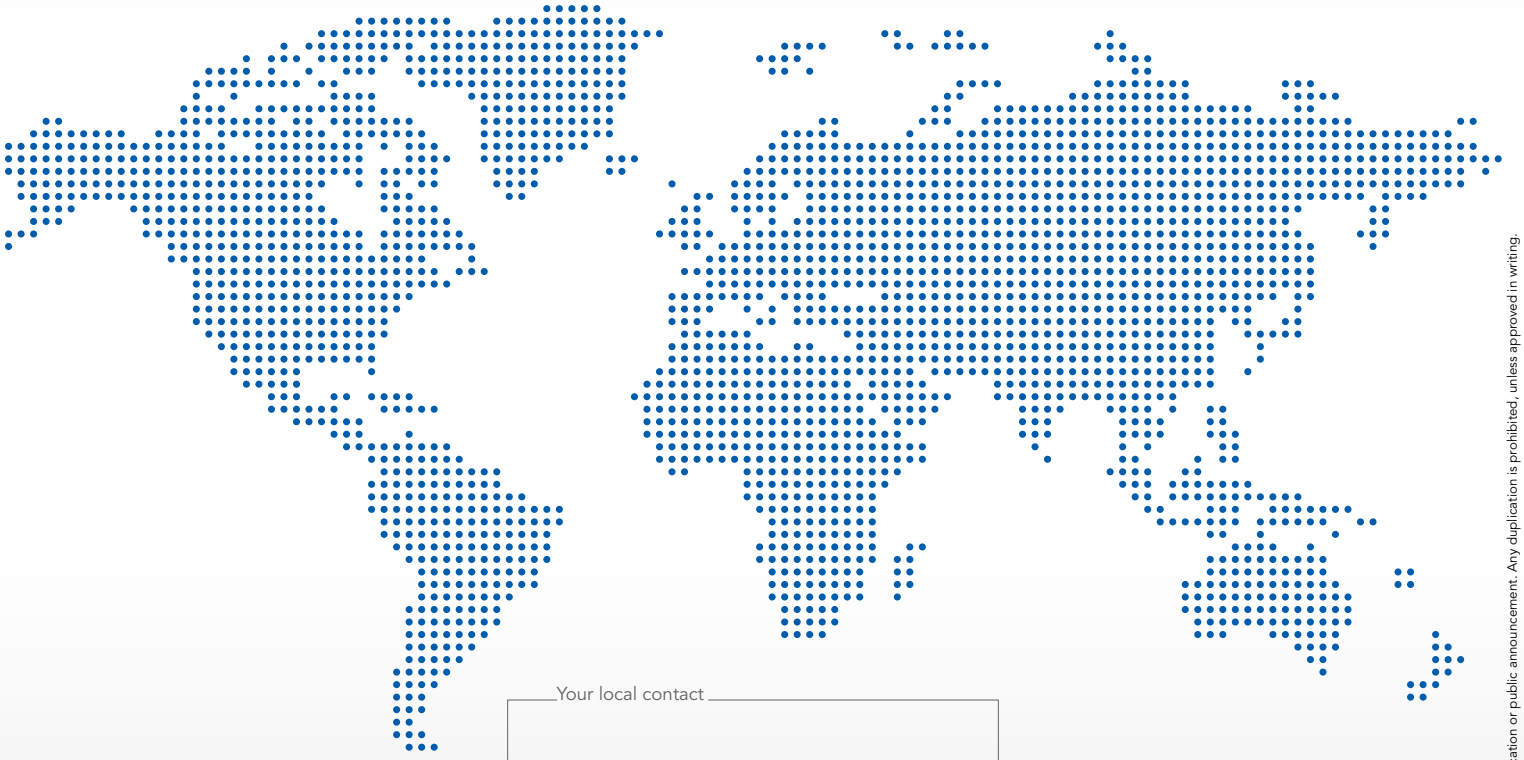
For connectors:

- MIL-DTL-38999 Series III & IV
- EN3645

Reliable and global interconnect solutions

Esterline Connection Technologies is a vertically integrated and full solution provider of high-performance and high-reliability interconnect products including connectors, backshells, conduits, cable assemblies, accessories and custom value-added solutions. Our company is composed of two highly respected interconnect brands, SOURIAU and SUNBANK, which have been servicing the aviation, defense, space, energy, transportation and general industry for over 100 years. Our success is attributed to our vast product offering and collaborative engineering and manufacturing approach to helping our customers with sophisticated and complex designs and offering a universal platform to service all your interconnect needs.

Reliable People, Reliable Solutions



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