



ELECTRICAL  
MECHANICAL  
INSULATION

**CSNUSA**  
EMI



Airport Lighting Kit

**CAPL**



# CAPL

Airport Lighting Kits, providing excellent insulating and environmental sealing protection for FAA approved L-823 plug and receptacle connectors

## Features

- Protects against water intrusion and accidental disconnection
- Provides added strain relief for the connector/cable assembly
- Heat indicating lines
- High impact and abrasion resistance
- Installs in minutes
- Adhesive free over connector, allowing for ease of removal for connector maintenance
- Continuous operating temperature -55°C to 110°C
- Shrink temperature: 120°C



## Technical Data

### Physical

Property	Test Method	Typical Performance
Tensile Strength	ASTM D412, ISO 37	2100 psi (14.5MPa)
Elongation	ASTM D412, ISO 37	550%
Longitudinal Change	ASTM D2671	+1%, -10%
Specific Gravity	ASTM D792, ISO 37	1.1
Elongation after Heat Aging (168 hrs at 150°C)	ASTM D2671, ISO 37	500%
Heat Shock (4hrs at 225°C)	ASTM D2671	No cracking or flowing
Low Temperature Flexibility (4hrs at -55°C)	ASTM D2671	No cracking
Hardness (Shore D)	ASTM D2240	50D

### Electrical

Dielectric Strength	ASTM D149	500 V/Mil (20kV/mm)
Dielectric Voltage Withstand (2500V, 60Hz, 1 min.)	UL-486D	No Breakdown
Volume Resistivity	ASTM D257	10 <sup>16</sup> ohm-cm

### Chemical

Fluid Resistance	MIL-DTL-23053/5, ISO 1817, ISO 37	Good to Excellent
Copper Corrosion	ASTM D2671	No Corrosion
Water Absorption	ASTM D570	0.1%
Fungus Resistance	ASTM G21	No Growth

### Adhesive

Adhesive softening point	ASTM E28	92°C +/- 5°C
Adhesive peel strength (300mm/min at 23°C)	ASTM D1000	
- to steel, alum, P.E.	ASTM D1000	35 pli
- to PVC	ASTM D1000	20 pli
Adhesive Lap Shear (1in./min at 23°C)	ASTM D1002 (mod)	125 psi (0.875 MPa)
Adhesive Blocking (30°C)	ASTM D1146	No blocking
Water Penetration	STM 706	No penetration after 286 hrs. (min) of continuous immersion.

When heated above 120°C, CAPL Airport Lighting Kit sleeving shrinks rapidly to seal and encapsulate electrical connections, providing a fast, simple, and clean insulation system that can also be easily removed.

## CANUSA-EMI

### There's no end to what we cover

CANUSA-EMI is a global company providing electrical and mechanical insulation solutions for a variety of industries and applications. Starting from products created by extensive developmental research at Shaw Industries (incorporated 1955), CANUSA-EMI is a recognized world leader in the provisioning of high quality heat shrink products.

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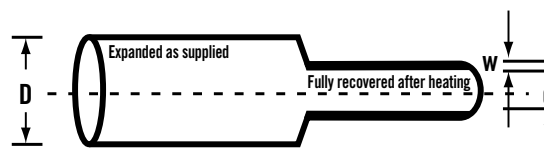
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## Dimensions

ORDER REF. NO. METRIC		EXPANDED		RECOVERED				SLEEVE LENGTH	
		INTERNAL DIAMETER (MIN)		INTERNAL DIAMETER (MAX)		WALL THICKNESS (NOM)			
XXXX	YYYY	mm	D IN	mm	d IN	mm	w IN	AA cm	BB IN
3810	1500	38.1	1.5	9.53	0.375	2.0	0.08	38, 43	15, 17



## Ordering

Select the appropriate CAPL Airport Lighting Kit based on your length coverage requirements.

### To Order in Metric Units:

Order Ref. No.  
CAPL - XXXX - AA - M  
Standard Length

### To Order in Imperial Units:

Order Ref. No.  
CAPL - YYYY - BB - I  
Standard Length

*Note:* Custom sized kits are available upon request.