



# Raychem Spin Lock Variable Angle Backshell

Single High-Performance, Low-Resistance Termination with Flexible Cable Angles

# Raychem Spin Lock Variable Angle Backshell

## High-Performance, Low-Resistance Termination



### VERSATILE

- Variable angle backshell enables straight, 45° and 90° cable terminations with the same part
- Available in a variety of material and plating options

### RUGGED RELIABILITY

- High performance, low resistance shield termination provided by the Tinel-Lock ring system or bandstrap
- Sealed termination achieved via a standard heat-shrinkable molded shape and adhesive system
- Saddle clamp strain relief or heat-shrinkable molded shape provides strain relief and sealing

### APPLICATIONS

- Military and Commercial Aerospace
- Military Ground Systems
- Military Marine
- Commercial Ships and Off-Shore Marine

The Raychem Spin Lock variable angle backshell enables straight, 45° and 90° cable terminations with the same part. The connector backshell swiveling body rotates around the axis of the cable bundle and locks in position, minimizing stress on the wire bundle and providing more robust strain relief than other termination systems.

### ELECTRICAL/MECHANICAL

- **DC Resistance:** 2.5 mΩ max.
- **Salt Spray:** EIA 364-26 test condition letter A (nickel-plated parts) or D (cadmium plating)
- **Vibration:** EIA 364-28, condition IV, test condition letter I
- **Shock:** EIA 364-27, condition C
- **Cable Retention:** EIA 364-38, method A
  - .062 - .500 Cable:** 12.5 lb.
  - .501 - .750 Cable:** 25.0 lb.
  - .751 - 1.500 Cable:** 37.5 lb.
  - 1.501 - 2.500 Cable:** 50.0 lb.

### MATERIALS

- **Base:** Aluminum or stainless steel
- **Plating:** Electroless nickel, cadmium, zinc nickel, or passivated

### TE SPECIFICATIONS AND TEST REPORTS

- **Application Specifications:**
  - Installation, Saddle Clamp Strain Relief: MIP-103-1
  - Installation, Molded Part Strain Relief: MIP-103-2
- **Product Specification:** MPS-103
- **Additional Documentation:** SLC40, SLC41, SLC54, SLM40, SLM41, SLM54, CH00-0250-019

### APPLICATION TOOLING

- **Tinel Lock Installation Kit:** RH-3960-1 (120 V) or AD-5000 (240 V)
- **Torque Wrench**
- **Heat Gun** (for versions with heat-shrinkable molded parts)

**TE Components . . . TE Technology . . . TE Know-how . . .**  
AMP | AGASTAT | CII | HARTMAN | KILOVAC | MICRODOT | NANONICS | POLAMCO | Raychem | Rochester | DEUTSCH  
SEACON Phoenix | LL ROWE | Phoenix Optix | AFP | SEACON

Get your product to market faster with a smarter, better solution.



Part Numbering System



Straight

Saddle Clamp Version

SLC 40 AB - 16 10 - A

- RING DESIGNATOR**  
(See table below)
- ENTRY SIZE**  
(See Drawing SLC\*\*\*)
- ORDER NUMBER**  
(See Drawing SLC\*\*\*)
- PLATING**  
(See table below)
- MATERIAL**  
(See table below)
- CONNECTOR CODE NUMBER**  
(See Drawing SLC\*\*\*)
- STRAIN RELIEF METHOD**  
(See table below)

Clamp Only

SLC AB - 16

- ORDER NUMBER**  
(See Drawing SLC\*\*\*)
- PLATING**  
(See table below)
- MATERIAL**  
(See table below)

Body Only

SLX 40 AB - 16 10 - BODY

- ENTRY SIZE**  
(See Drawing SLC\*\*\* or SLM\*\*\*)
- ORDER NUMBER**  
(See Drawing SLC\*\*\* or SLM\*\*\*)
- PLATING**  
(See table below)
- MATERIAL**  
(See table below)
- CONNECTOR CODE NUMBER**  
(See Drawing SLC\*\*\* or SLM\*\*\*)
- STRAIN RELIEF METHOD**  
(See table below)



90°

Molded Boot Version

SLM 40 AB - 16 10 A - 3/42 - 0

- COLOR**  
(Black)
- ADHESIVE**  
(See 245WOXX)
- MOLDED PART MATERIAL**  
(See 245WOXX)
- RING DESIGNATOR**  
(See table below)
- ENTRY SIZE**  
(See Drawing SLM\*\*\*)
- ORDER NUMBER**  
(See Drawing SLM\*\*\*)
- PLATING**  
(See table below)
- MATERIAL**  
(See table below)
- CONNECTOR CODE NUMI**  
(See Drawing SLM\*\*\*)
- STRAIN RELIEF METHOD**  
(See table below)

Body



Molded Boots



Clamp



45°

Notes:

<b>Strain Relief Method</b>	<b>M</b>	Molded Part
	<b>C</b>	Clamp Strain Relief
	<b>X</b>	Body Only
<b>Material</b>	<b>A</b>	Aluminum Alloy
	<b>S</b>	Stainless Steel (Contact TE)
<b>Plating</b>	<b>B</b>	Cadmium Olive Drab to SAE-AMS-QQ-P-416
	<b>C</b>	Electroless Nickel to SAE-AMS-C-26074, Class 3 or 4, Grade A
	<b>Z</b>	Black Zinc Nickel to ASTM B841, Grade 1, Type D
	<b>J</b>	Passivated per SAE-AMS-QQ-P-35
<b>Ring Designator</b>	<b>A</b>	AI
	<b>B</b>	BI
	<b>C</b>	CI
	<b>D</b>	Band Strap (Contact TE)
		Leave Blank for No Band or Tinel-Lock Ring

## LET'S CONNECT

We make it easy to connect with our experts and are ready to provide all the support you need. Just call your local support number or visit [www.te.com/industrial](http://www.te.com/industrial) to chat with a Product Information Specialist.

## Technical Support

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Consult TE for the latest dimensions and design specifications.

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