

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

Part Numbering System



Straight

Saddle Clamp Version

SLC 40 A B — 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 A B — 16

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

Body Only

SLX 40 A B — 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 A B — 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 NUMBER** (See Drawing SLM***)
- **STRAIN RELIEF METHOD** (See table below)



45°

Body





Molded Boots



Clamp

Notes:

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

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