



Introducing  
**Raychem Spin Lock**  
**Variable Angle Backshell**



# Raychem Spin Lock Variable Angle Backshell



## KEY FEATURES

Variable angle backshell enables straight, 45° and 90° cable terminations with the same part

High performance, low resistance shield termination provided by the proven Tinel-Lock ring system or bandstrap

Sealed termination achieved via a standard heat-shrinkable molded shape and adhesive system

Available in a variety of material and plating options

Saddle clamp strain relief or heat-shrinkable molded shape provides strain relief and sealing

## APPLICATION TOOLING

RH-3960-1 TINEL-KIT-120V or AD-5000-TINEL-ASSY (240v)

Torque Wrench

Heat Gun (if using heat-shrinkable molded part version)

## DESCRIPTION

The Raychem spin lock variable angle backshell enables straight, 45° and 90° cable terminations with the same part. The connector backshell swivelling 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.

## APPLICATIONS

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

## ELECTRICAL / MECHANICAL

| Title                           | Requirement    | Passing Criteria                                                                  |
|---------------------------------|----------------|-----------------------------------------------------------------------------------|
| <b>Examination of product</b>   | MPS-103 3.3.1  | Meet drawing dimension                                                            |
| <b>DC Resistance</b>            | MPS-103 3.3.2  | DC Resistance < 2.5mΩ                                                             |
| <b>Salt Spray</b>               | MPS-103 3.3.3  | Exposure of basis metal:<br>Non-critical area <0.1"<br>Critical area <.025"       |
| <b>Vibration (Category 3B)</b>  | MPS-103 3.3.4  | Must pass visual and DC Resistance criteria                                       |
| <b>Shock (Category 3B)</b>      | MPS-103 3.3.5  | Must pass visual and DC Resistance criteria                                       |
| <b>Cable Pullout</b>            | MPS-103 3.3.6  | Cable Slippage <0.125"                                                            |
| <b>Braid Retention</b>          | MPS-103 3.3.7  | DC Resistance < 2.5 mΩ                                                            |
| <b>Coupling Thread Strength</b> | MPS-103 3.3.8  | No visible damage to threads, coupling nut or anti-rotational teeth               |
| <b>DC Resistance</b>            | MPS-103 3.3.2  | DC Resistance < 2.5mΩ                                                             |
| <b>External Bending Moment</b>  | MPS-103 3.3.9  | No visible damage to adapter body, threads, coupling nut or anti-rotational teeth |
| <b>Post Test Examination</b>    | MPS-103 3.3.10 | Meet drawing dimensions                                                           |

\*MPS-103 Requirements meet or exceed SAE-AMS-85049

## MATERIALS

Aluminum with Electroless Nickel or Cadmium over Electroless Nickel or Zinc Nickel plating

## STANDARDS & SPECS

|                                                    |                                                                                                               |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Application Specification:<br>Clamp Strain Relief) | MIP-103-1 (Installation Procedure, Saddle<br>MIP-103-2 (Installation Procedure,<br>Molded Part Strain Relief) |
| Product Specification:                             | MPS-103                                                                                                       |
| Additional Documents:                              | SLC40, SLC41, SLC54, SLM40, SLM41,<br>SLM54, CH00-0250-019                                                    |

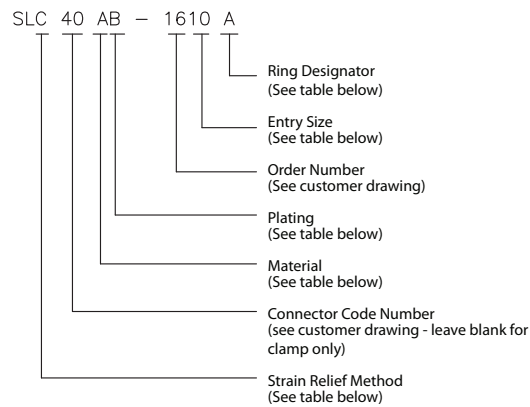
# Raychem Spin Lock Variable Angle Backshell

## PART NUMBERING SYSTEM

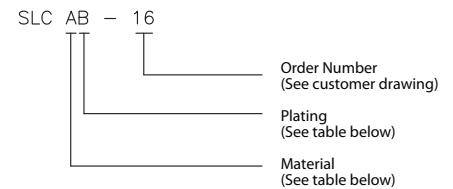


Straight

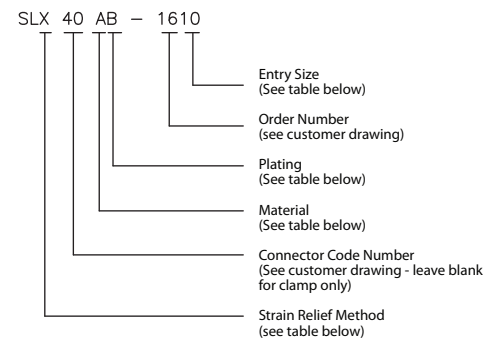
### Saddle Clamp Version



### Clamp Only

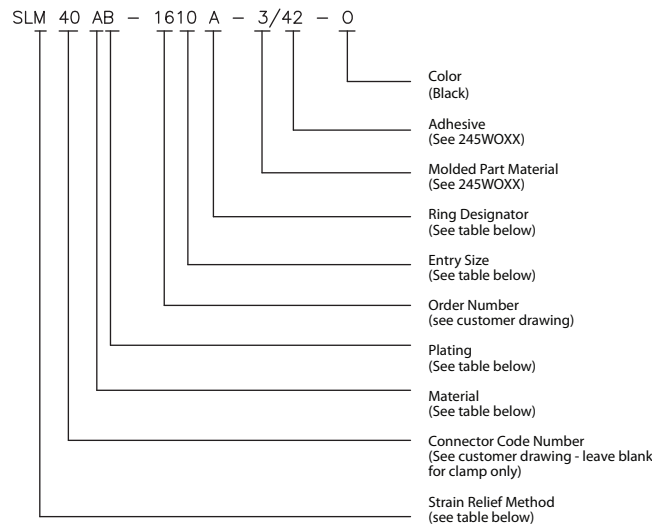


### Body Only



90°

### Molded Boot Version



45°

### Additional Images:



### Notes:

|                              |                                            |   |                                                           |
|------------------------------|--------------------------------------------|---|-----------------------------------------------------------|
| <b>Strain Relief Method:</b> | M                                          | = | Molded Part                                               |
|                              | C                                          | = | Clamp Strain Relief                                       |
|                              | X                                          | = | Body Only                                                 |
| <b>Material:</b>             | A                                          | = | Aluminum Alloy                                            |
|                              | S                                          | = | Stainless Steel (contact TE)                              |
| <b>Plating:</b>              | B                                          | = | Cadmium olive drab to SAE-AMS-PQ-P-146                    |
|                              | C                                          | = | Electroless Nickel to SAE-AMS-26074 Class 3 or 4, Grade A |
|                              | Z                                          | = | Zinc Nickel, Black to ASTM BB41 Grade 1, Type D           |
|                              | J                                          | = | Passivated per SAE-AMS-QQ-P-35 or MIL-S-5002 (contact TE) |
| <b>Ring Designator:</b>      | A                                          | = | AI                                                        |
|                              | B                                          | = | BI                                                        |
|                              | C                                          | = | C1                                                        |
|                              | D                                          | = | Band Strap (contact TE)                                   |
|                              | Leave Blank for no band or Tinel-Lock Ring |   |                                                           |

**FOR MORE INFORMATION**  
**TE Technical Support Center**

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