THE LIGHTWEIGHT ADVANTAGE

Carlisle is proud to introduce a new line of high quality products based on technology, engineering expertise and our valued customers’ feedback. Our new connectivity solutions offer reliable, more compact components leaving you more space and less weight.

NEW PRODUCT INNOVATION FROM CARLISLE

- 60% LIGHTER THAN COMPARABLE INDUSTRY STANDARD PRODUCTS
- COMPACT AND EFFICIENT DESIGN MAXIMIZES INTERNAL SPACE
  - FRONT PANEL MOUNT CAPABILITY
  - SLOTS FOR MOUNTING STABILITY

www.carlisleit.com

QUALITY • ON-TIME DELIVERY • TRACEABILITY • AOG SUPPORT • CUSTOM PACKAGING • TECHNICAL SUPPORT
STRAIGHT EXIT ANGLE BACKSHELL
COMPRESSION STYLE
ROHS AND ELV COMPLIANT

PRODUCT FACTS

- STRAIGHT CABLE EXIT
- EXTREMELY COMPACT AND LIGHTWEIGHT
  (UP TO 60% LIGHTER THAN COMPARABLE INDUSTRY STANDARD PRODUCTS)
- UNIQUE FRONT PANEL MOUNT FEATURE
- SLOTS FOR 4-40 SCREW OR TIE STRAP TO PROVIDE MORE MOUNTING STABILITY
- BODY TAPPED STYLE WITH SIDE MOUNT CAPABILITY
- ACCOMMODATES CONVENTIONAL AND MOISTURE PROOF D-SUB CONNECTORS
- DESIGNED FOR EASE OF MANUFACTURING AND REWORK IN THE FIELD
- HIGH PRECISION WITH A MINIMAL AIR GAP
- VERY EFFECTIVE EMI SHIELDING

IDEAL APPLICATION:

- AEROSPACE VIDEO AND ETHERNET
- EMI AND WEIGHT SENSITIVE

EACH KIT CONTAINS:

- 2 SHELL HALVES WITH SCREWS (MS51957)

STANDARD MATERIAL AND FINISH:

- SHELL - ALUMINUM ALLOY WITH ELECTROLESS NICKEL PLATING
- 4-40 PAN HEAD SCREWS - STAINLESS STEEL

OPTIONAL MATERIAL:

- ZINC ALLOY OR METALIZED PLASTIC FOR BACKSHELLS
- ADDITIONAL PLATING UPON CUSTOMER’S REQUEST

TECHNICAL DOCUMENT:

DRAWING FOR INDIVIDUAL PART AVAILABLE UPON REQUEST

NOTES:
1. THE PARTS SHOWN IN THE ABOVE TABLE ARE STANDARD ITEMS, OTHER STRAIN RELIEF DIAMETERS WILL BE AVAILABLE UPON REQUEST. 2. PARTS ARE PACKAGED UNASSEMBLED.
IDEAL APPLICATION:
• AEROSPACE VIDEO AND ETHERNET
• EMI AND WEIGHT SENSITIVE

EACH KIT CONTAINS:
• 1 LEFT SHELL, 1 RIGHT SHELL
  AND SCREWS (MS51957)

STANDARD MATERIAL AND FINISH:
• SHELL - ALUMINUM ALLOY WITH
  ELECTROLESS NICKEL PLATING
• 4-40 PAN HEAD SCREWS -
  STAINLESS STEEL

OPTIONAL MATERIAL:
• ZINC ALLOY OR METALIZED
  PLASTIC FOR BACKSHELLS
• ADDITIONAL PLATING UPON
  CUSTOMER'S REQUEST

TECHNICAL DOCUMENT:
• DRAWING FOR INDIVIDUAL PART
  AVAILABLE UPON REQUEST

NOTES: 1. THE PARTS SHOWN IN THE ABOVE TABLE
  ARE STANDARD ITEMS, OTHER STRAIN RELIEF DIAMETERS
  WILL BE AVAILABLE UPON REQUEST. 2. PARTS ARE
  PACKAGED UNASSEMBLED.
90 DEGREE EXIT ANGLE BACKSHELL

COMPRESSION STYLE
ROHS AND ELV COMPLIANT

PRODUCT FACTS

• 90 DEGREE CABLE EXIT
• EXTREMELY COMPACT AND LIGHTWEIGHT
  (UP TO 60% LIGHTER THAN COMPARABLE INDUSTRY STANDARD PRODUCTS)
• ACCOMMODATES CONVENTIONAL AND MOISTURE PROOF D-SUB CONNECTORS
• BODY TAPPED STYLE
• DESIGNED FOR EASE OF MANUFACTURING AND REWORK IN THE FIELD
• HIGH PRECISION WITH A MINIMAL AIR GAP
• VERY EFFECTIVE EMI SHIELDING

<table>
<thead>
<tr>
<th>SHELL SIZE</th>
<th>DIMENSIONS IN INCH</th>
<th>CABLE DIA (MIN-MAX) IN INCH</th>
<th>WEIGHT (GRAMS)</th>
<th>CARLISLE PIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/E</td>
<td>A 1.330, B 1.330</td>
<td>C 0.95, D 5.64, E 0.540</td>
<td>0.10-0.25</td>
<td>12 LW071C-90</td>
</tr>
<tr>
<td>2/A</td>
<td>1.550, 1.650</td>
<td>1.10, 1.541, 0.540</td>
<td>0.15-0.35</td>
<td>15 LW092C-90</td>
</tr>
<tr>
<td>3/B</td>
<td>2.100, 2.250</td>
<td>1.20, 1.852, 0.540</td>
<td>0.20-0.40</td>
<td>18 LW123C-90</td>
</tr>
<tr>
<td>4/C</td>
<td>2.760, 2.950</td>
<td>1.50, 2.560, 0.540</td>
<td>0.30-0.60</td>
<td>30 LW164C-90</td>
</tr>
<tr>
<td>5/D</td>
<td>3.550, 3.750</td>
<td>1.50, 2.405, 0.900</td>
<td>0.35-0.65</td>
<td>34 LW165C-90</td>
</tr>
</tbody>
</table>

NOTES: 1. THE PARTS SHOWN IN THE ABOVE TABLE ARE STANDARD ITEMS; OTHER STRAIN RELIEF DIAMETERS WILL BE AVAILABLE UPON REQUEST. 2. PARTS ARE PACKAGED UNASSEMBLED.
HIGHLY FLEXIBLE BACKSHELL WITH CONVOLUTED TUBING

COMPRESSSION STYLE
ROHS AND ELV COMPLIANT

PRODUCT FACTS

• FLEXIBLE CABLE EXIT

• EXTREMELY TIGHT BENDING RADIUS IN 90 DEGREE CONFIGURATION

• PROVIDES HIGH DEGREE OF STABILITY IN TERMS OF STRAIN RELIEF

  WITH MINIMAL DEFORMATION OF WIRE INSULATION

• COMPACT AND LIGHTWEIGHT

• BODY TAPPED STYLE

• DESIGNED FOR EASE OF MANUFACTURING AND REWORK IN THE FIELD

• HIGH PRECISION WITH A MINIMAL AIR GAP

• VERY EFFECTIVE EMI SHIELDING

IDEAL APPLICATION:

• AEROSPACE VIDEO AND ETHERNET

• EMI AND WEIGHT SENSITIVE

EACH KIT CONTAINS:

• 2 SHELL HALVES, 2 PAN 4-40 SCREWS, 1 TIE BUSHING, AND 1 CONVOLUTED TUBE

STANDARD MATERIAL AND FINISH:

• SHELL - ALUMINUM ALLOY WITH NICKEL PLATING

• TIE BUSHING - ALUMINUM ALLOY WITH NICKEL PLATING

• CONVOLUTED TUBE - ETFE OR PTFE

• 4-40 PAN HEAD SCREWS - STAINLESS STEEL

OPTIONAL MATERIAL:

ZINC ALLOY OR METALIZED PLASTIC FOR BACKSHELLS

TECHNICAL DOCUMENT:

DRAWING AVAILABLE UPON REQUEST

NOTES:

1. THE PARTS SHOWN IN THE ABOVE TABLE ARE DESIGNED FOR MS24308 CONNECTOR TYPE WITH STANDARD DENSITY OF 15 POSITIONS AND HIGH DENSITY OF 26 POSITIONS. OTHER SHELL SIZES, STRAIN RELIEF DIAMETERS AND DIFFERENT LENGTHS OF CONVOLUTED TUBES WILL BE AVAILABLE UPON REQUEST.

2. PARTS ARE PACKAGED UNASSEMBLED.
**PRODUCT FACTS**

- Parts are marked with Carlisle part #
- Compatible with EN4165/BACC65/ARINC809 Connectors
- Compression style shielding method
- Additional plating options are available upon customer request/business case.
- Extremely compact and lightweight
- Designed for ease of manufacturing and rework in the field
- High precision with minimal air gap
- Very effective EMI shielding

---

<table>
<thead>
<tr>
<th>Carlisle P/N</th>
<th>Exit Angle</th>
<th>Accommodated Cable Entry Dia. (in.)</th>
<th>Screw P/N</th>
<th>Screw Qty</th>
<th>Weight (grams)</th>
<th>Shell</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAR-BK-10XP-S</td>
<td>Straight</td>
<td>.0150-.400</td>
<td>MS51959-5</td>
<td>2</td>
<td>9.5</td>
<td>Composite</td>
</tr>
<tr>
<td>CAR-BK-10XP-45</td>
<td>45 deg.</td>
<td>.0150-.400</td>
<td>2C31PPMS</td>
<td>2</td>
<td>9.5</td>
<td>Composite</td>
</tr>
<tr>
<td>CAR-BK-10XP-90</td>
<td>90 deg.</td>
<td>.0150-.400</td>
<td>2C31PPMS</td>
<td>2</td>
<td>10.0</td>
<td>Composite</td>
</tr>
<tr>
<td>CAR-BK-10XM-S</td>
<td>Straight</td>
<td>.0150-.400</td>
<td>MS24693-C4</td>
<td>2</td>
<td>13.0</td>
<td>Machined</td>
</tr>
<tr>
<td>CAR-BK-10XM-45</td>
<td>45 deg.</td>
<td>.0150-.400</td>
<td>MS1957-14</td>
<td>2</td>
<td>13.0</td>
<td>Machined</td>
</tr>
<tr>
<td>CAR-BK-10XM-90</td>
<td>90 deg.</td>
<td>.0150-.400</td>
<td>MS1957-15</td>
<td>2</td>
<td>15.0</td>
<td>Machined</td>
</tr>
<tr>
<td>CAR-BK-NEXM</td>
<td>No Entry</td>
<td>No Cable Entry</td>
<td>MS24693-C4</td>
<td>2</td>
<td>12.0</td>
<td>Machined</td>
</tr>
<tr>
<td>CAR-BK-10XC-S</td>
<td>Straight</td>
<td>.0150-.400</td>
<td>MS51959-5</td>
<td>2</td>
<td>13.0</td>
<td>Die Cast</td>
</tr>
<tr>
<td>CAR-BK-10XC-45</td>
<td>45 deg.</td>
<td>.0150-.400</td>
<td>2C31PPMS</td>
<td>2</td>
<td>13.0</td>
<td>Die Cast</td>
</tr>
<tr>
<td>CAR-BK-10XC-90</td>
<td>90 deg.</td>
<td>.0150-.400</td>
<td>2C31PPMS</td>
<td>2</td>
<td>15.0</td>
<td>Die Cast</td>
</tr>
</tbody>
</table>

---

**IDEAL APPLICATION:**
- Aerospace, video and Ethernet
- EMI and Weight sensitive

**EACH KIT CONTAINS:**
- 2 Shell halves
- 2 Screws

**STANDARD MATERIAL AND FINISH:**
- **Shell:**
  - Die Cast: A380 Aluminum with Electroless Nickel plating
  - Machined: T6-6061 Aluminum with Electroless Nickel plating
  - Composite: Glass-filled PC/ABS with Undercoat of Electroless Nickel and Top coat of Electrolytic Nickel
- **Screws:** Stainless Steel

**TECHNICAL DOCUMENT:**
- Drawing available upon request
IDEAL APPLICATION:
• AEROSPACE VIDEO AND ETHERNET
• EMI AND WEIGHT SENSITIVE

EACH KIT CONTAINS:
• 2 SHELL HALVES AND 2 SCREWS (MS51957)

STANDARD MATERIAL AND FINISH:
• SHELL - ALUMINUM ALLOY, WITH ELECTROLESS NICKEL PLATED
• 4-40 PAN HEAD SCREWS - STAINLESS STEEL

OPTIONAL MATERIAL:
• ZINC ALLOY OR METALIZED PLASTIC FOR BACKSHELLS
• ADDITIONAL PLATING UPON CUSTOMER'S REQUEST

TECHNICAL DOCUMENT:
DRAWING FOR INDIVIDUAL PART AVAILABLE UPON REQUEST

NOTES: 1. THE PARTS SHOWN IN THE ABOVE TABLE ARE STANDARD ITEMS, OTHER STRAIN RELIEF DIAMETERS WILL BE AVAILABLE UPON REQUEST. 2. PARTS ARE PACKAGED UNASSEMBLED.

PRODUCT FACTS
• STRAIGHT CABLE EXIT
• EXTREMELY COMPACT AND LIGHTWEIGHT
• BODY TAPPED STYLE
• DESIGNED FOR EASE OF MANUFACTURING AND REWORK IN THE FIELD
• HIGH PRECISION WITH A MINIMAL AIR GAP
• VERY EFFECTIVE EMI SHIELDING
MULTI-EXIT EXIT ANGLE BACKSHELL
UNIBODY STYLE
ROHS AND ELV COMPLIANT
Patent #7029315

PRODUCT FACTS

• CONFIGURABLE FOR BOTH STRAIGHT AND 90 DEGREE CABLE EXITS
• COMPACT AND LIGHTWEIGHT
• VERY EFFECTIVE EMI SHIELDING
• ACCOMMODATES MANY TYPES OF SHIELD TERMINATIONS
• ACCOMMODATES A WIDE RANGE OF CABLE DIAMETERS
• DESIGNED FOR EASE OF MANUFACTURING AND REWORK IN THE FIELD

IDEAL APPLICATION:
• VIDEO AND ETHERNET SIGNALS
• EMI AND HI POT SENSITIVE

EACH KIT CONTAINS:
• 1-SHELL
• 1-STRAIN RELIEF
• 2 FLAT HEAD 2-56 SCREWS

STANDARD MATERIAL AND FINISH:
• SHELL - ALUMINUM ALLOY WITH NICKEL PLATED FINISH
• STRAIN RELIEF - SAME AS ABOVE
• 2-56 FLAT HEAD SCREWS - STAINLESS STEEL

OPTIONAL MATERIAL:
• ZINC ALLOY OR METALIZED PLASTIC
• ADDITIONAL PLATING UPON CUSTOMER’S REQUEST

TECHNICAL DOCUMENT:
• MANUFACTURING INSTRUCTIONS FOR SHIELDING TERMINATIONS

NOTES:
1. ALL PARTS ARE PACKAGED UNASSEMBLED.
2. STRAIN RELIEFS SHOWN IN ABOVE TABLE ARE STANDARD AND CAN BE USED IN A STRAIGHT AND 90 DEGREE CONFIG. DIFFERENT ANGLES AND DIAMETERS CAN BE CUSTOMIZED TO SUIT YOUR APPLICATIONS.
IDEAL APPLICATION:
• AEROSPACE VIDEO AND ETHERNET.
• EMI AND WEIGHT SENSITIVE

EACH KIT CONTAINS:
• 1 LEFT SHELL, 1 SET OF STRAIN RELIEF AND 2 ROUND 4-40 SCREWS

STANDARD MATERIAL AND FINISH:
• SHELL - ALUMINUM ALLOY WITH ELECTROLESS NICKEL PLATING
• STRAIN RELIEF - SAME AS ABOVE
• LOCK LATCH - SAME AS ABOVE
• SPRING - STAINLESS STEEL
• 4-40 PAN HEAD SCREWS - STAINLESS STEEL

TECHNICAL DOCUMENT:
• INSTRUCTION SHEETS FOR SHIELDING TERMINATIONS

NOTES: 1. ALL PARTS ARE PACKAGED UNASSEMBLED.
2. STRAIN RELIEFS SHOWN IN ILLUSTRATIONS ARE 45 DEGREE CABLE EXIT. OTHER STRAIN RELIEF CONFIGURATIONS CAN BE CUSTOMIZED TO SUIT YOUR APPLICATIONS.
**UNIVERSAL SPRING LATCHES**

**HIGH STABILITY LOCKING IN PANEL AND INLINE APPLICATION**

**ROHS AND ELV COMPLIANT**

**PRODUCT FACTS**

- Provides enhanced locking stability in panel and inline applications compared to industry standard products
- High strength stainless steel provides excellent corrosion and stress resistance
- Accommodates conventional and moisture proof M24308 connector types
- Compact and lightweight
- Economical

**IDEAL APPLICATION:**

- Aerospace video and Ethernet
- EMI and weight sensitive

**EACH KIT CONTAINS:**

- **SLUM**: One male latch plate, one coil spring, one round head screw and one lock washer
- **SLUF**: Two female latch plates, two round head screws and two lock washers

**STANDARD MATERIAL AND FINISH:**

- **LATCH PLATE**: Passivated stainless steel
- **LATCH SPRING**: Passivated stainless steel
- **FLAT HEAD SCREWS**: Stainless steel

**OPTIONAL FINISH:**

Surface finish can be nickel plated or anodized upon request

**TECHNICAL DOCUMENT:**

Drawing for individual part available upon request