

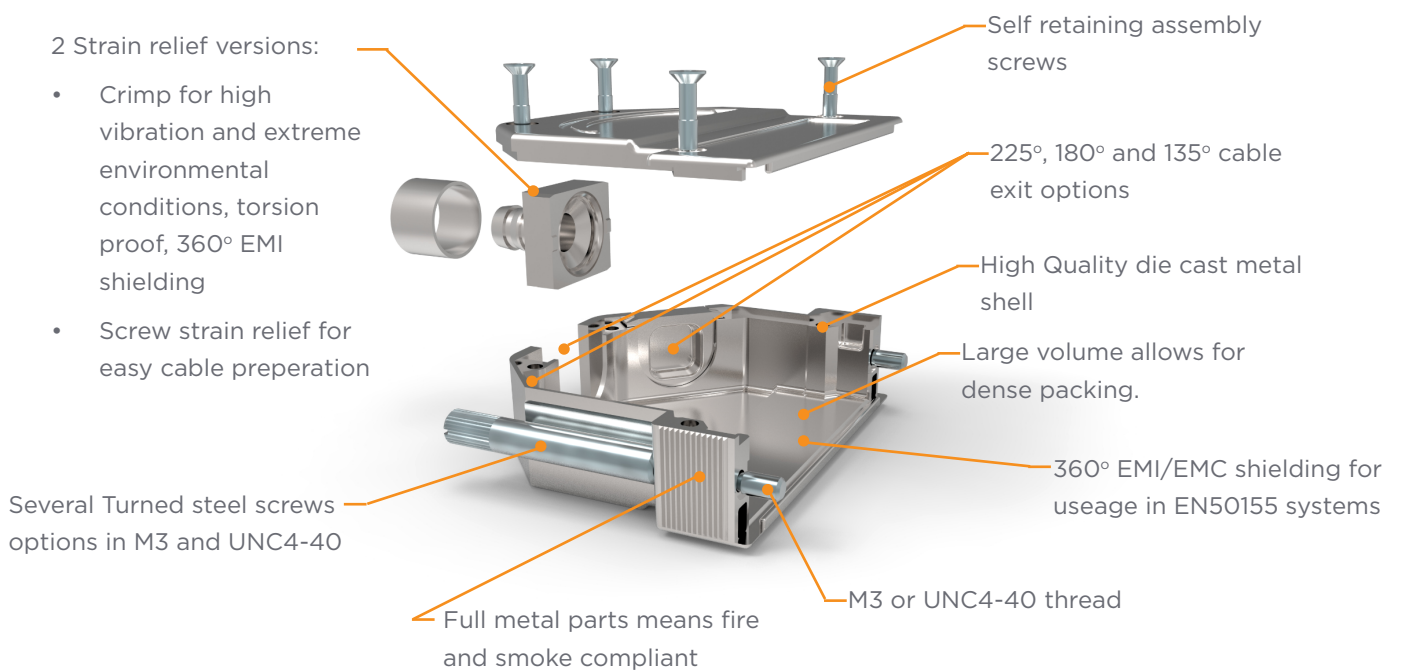
RAIL D-SUB BACKSHELLS

FOR D-SUBMINIATURE CONNECTORS

RAIL D-SUB BACKSHELLS

FOR D-SUBMINIATURE CONNECTORS

A comprehensive range of ruggedized metal backshells for D-Subminiature connectors. Fast easy installation and assembly thanks to a practical construction with a minimum number of single parts. TE Connectivity (TE) have many options available including two cable exit variants and a unique retrofitable quick-lock system for easy robust assembly in tight spaces. With a cable exit option of crimp inserts ensuring unparalleled 360° EMI/EMC Shielding, the crimp insert also protects the conductors against damage during the crimping process. For quick and easy installation we also have a screw strain relief cable exit option which required no special tooling.



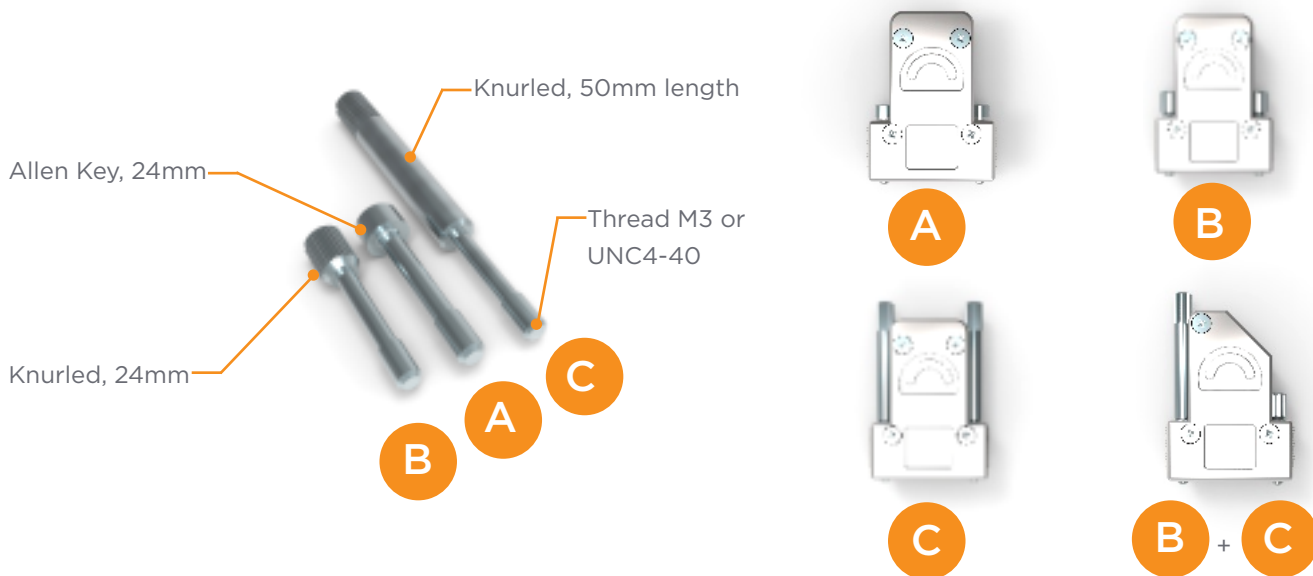
| Cable Outlet | Size 1 9/15p | Size 2 15/26p | Size 3 25/44p | Size 4 37/62p | Size 5 50/78p |
|-------------------|-----------------|------------------|------------------|------------------|------------------|
| 180° Cable Outlet | | | | | |
| 135° Cable Outlet | | | | | |
| 225° Cable Outlet | | | | | |

D-Sub Backshells

For D-Subminiature Connectors

Screw Lock Options

With multiple screw lock options our D-Sub backshells meet all requirements for D-Subminiature connectors.



Ordering Information

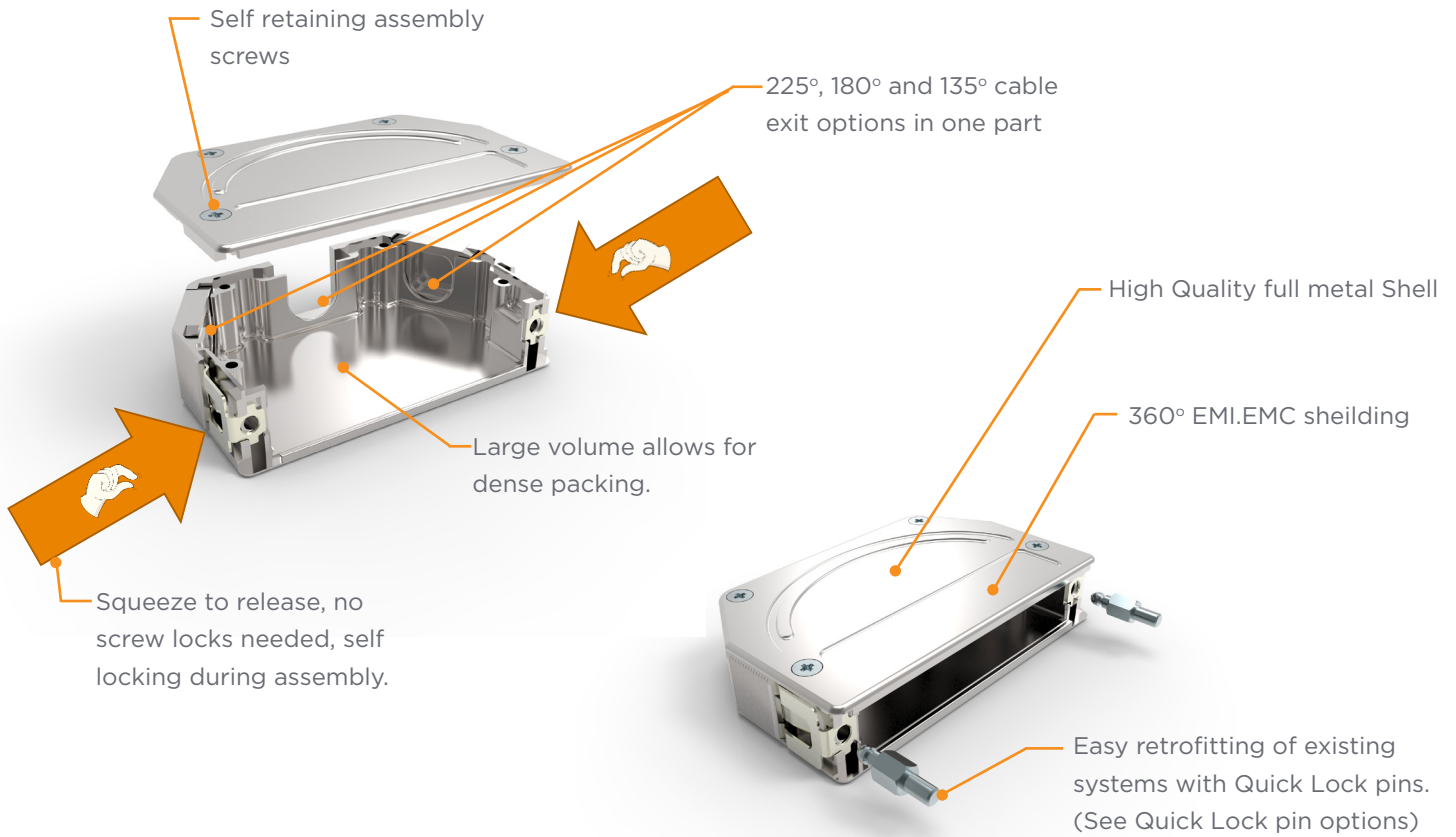
| | Positions | Picture | Thread | Screw Length | | | | Cable Outlet | | |
|---|-----------|---------|----------|-----------------------------------|--------------------------------|-------------------------------|--|--------------|------|------|
| | | | | Locking screw w/ spring washer | Locking Screw short knurled | Locking screw Long knurled | Locking screw long knurled and locking screw short knurled | 180° | 135° | 225° |
| 1 | 9P/15P | | UNC 4-40 | 1-2308340-1 | 1-2308340-3 | 1-2308340-5 | - | ● | | |
| | | | M3 | 1-2308340-2 | 1-2308340-4 | 1-2308340-6 | - | ● | | |
| | | | UNC-4-40 | 1-2308340-7 | 1-2308340-9 | - | 2-2308340-1 | | ● | |
| | | | M3 | 12308340-8 | 2-230834-0 | - | 2-2308340-2 | | ● | |
| 2 | 15/26P | | UNC 4-40 | 1-2308341-1 | 1-2308341-3 | 1-2308341-5 | - | ● | | |
| | | | M3 | 1-2308341-2 | 1-2308341-4 | 1-2308341-6 | - | ● | | |
| | | | UNC 4-40 | 1-2308341-7 | 1-2308341-9 | - | 2-2308341-1 | | ● | |
| | | | M3 | 1-2308341-8 | 2-2308341-0 | - | 2-2308341-2 | | ● | |
| 3 | 25/44P | | UNC 4-40 | 1-2308342-1 | 1-2308342-3 | 1-2308342-5 | 1-2308342-7 | ● | ● | |
| | | | M3 | 1-2308342-2 | 1-2308342-4 | 1-2308342-6 | 1-2308342-8 | ● | ● | |
| 4 | 37/62P | | UNC 4-40 | 1-2308345-1 | 1-2308345-3 | 1-2308345-5 | 1-2308345-7 | ● | ● | ● |
| | | | M3 | 1-2308345-2 | 1-2308345-4 | 1-2308345-6 | 1-2308345-8 | ● | ● | ● |
| 5 | 50/78P | | UNC 4-40 | 1-2308346-1 | 1-2308346-3 | 1-2308346-5 | 1-2308346-7 | ● | ● | ● |
| | | | M3 | 1-2308346-2 | 1-2308346-4 | 1-2308346-6 | 1-2308346-8 | ● | ● | ● |

D-Sub Backshells

For D-Subminiature Connectors

Quick Lock Hoods

Our quick lock versions are an effective, time saving solution, with self retaining assembly screws and with its 'squeeze to release' self locking system it also provides three cable exit options in just one single part.



Quick Lock pin options


| | |
|---|--|
| <p>A Fixed female screwlock</p> <p>D-Sub Female connector</p> <p>Quick lock pins mounted in existing M3 or UNC4-40 sockets</p> <p>Panel (front or back mounted)</p> | <p>C Standard mounting hole</p> <p>Length depending on panel thickness</p> <p>Quick lock pins mounted in standard mounting holes using M3 nuts</p> <p>Panel (front mounted)</p> |
| <p>B Threaded insert</p> <p>Length depending on panel thickness</p> <p>Quick lock pins mounted in threaded sockets on the backside of the connector</p> <p>Panel (front mounted)</p> | <p>D Bracket mounting (2x Sub-D)</p> <p>2x D-Sub connector used to connect two cables with each other</p> <p>Quick lock pins mounted in bracket using locking ring</p> <p>Panel</p> |

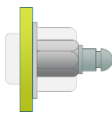
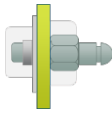
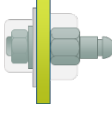
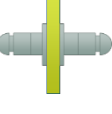
D-Sub Backshells

For D-Subminiature Connectors

Ordering Information

Quick Lock Versions

| Quick Lock Shells | | | | | | |
|-------------------|-----------|---|-------------|--------------|------|------|
| Shell Size | Positions | Picture | Part Number | Cable Outlet | | |
| | | | | 225° | 180° | 135° |
| 1 | 9p/15p |  | 1-2308319-1 | ● | ● | ● |
| 2 | 15p/26p | | 1-2308321-1 | ● | ● | ● |
| 3 | 25p/44p | | 1-2308327-1 | ● | ● | ● |
| 4 | 37p/62p | | 1-2308330-1 | ● | ● | ● |
| 5 | 50p/78p | | 1-2308338-1 | ● | ● | ● |

| Quick Lock Pin Options | | | | |
|------------------------|---|-------------|----------|-----------------|
| | Picture | PN | Thread | Panel Thickness |
| A |  | 1-2308273-1 | M3 | N/A |
| | | 1-2308273-2 | 4-40 UNC | N/A |
| B |  | 1-2308265-1 | 4-40 UNC | N/A |
| | | 1-2308265-2 | 4-40 UNC | 1.0-1.3 |
| | | 1-2308265-3 | 4-40 UNC | 1.5-1.8 |
| | | 1-2308265-4 | 4-40 UNC | 1.7-2.0 |
| | | 1-2308265-5 | 4-40 UNC | 2.2-2.5 |
| | | 1-2308265-6 | M3 | N/A |
| | | 1-2308265-7 | M3 | 1.0-1.3 |
| | | 1-2308265-8 | M3 | 1.5-1.8 |
| | | 1-2308265-9 | M3 | 1.7-2.0 |
| | | 2-2308265-0 | M3 | 2.2-2.5 |
| C |  | 1-2308290-1 | M3 | 1.7-2.0 |
| D |  | 1-2308298-1 | N/A | 1.25 |
| | | 1-2308298-2 | | 1.5 |
| | | 1-2308298-3 | | 2 |
| | | 1-2308298-4 | | 2.2 |
| | | 1-2308298-5 | | 2.5 |
| | | 1-2308298-6 | | 3 |

D-Sub Backshells

For D-Subminiature Connectors

Cable Exit options

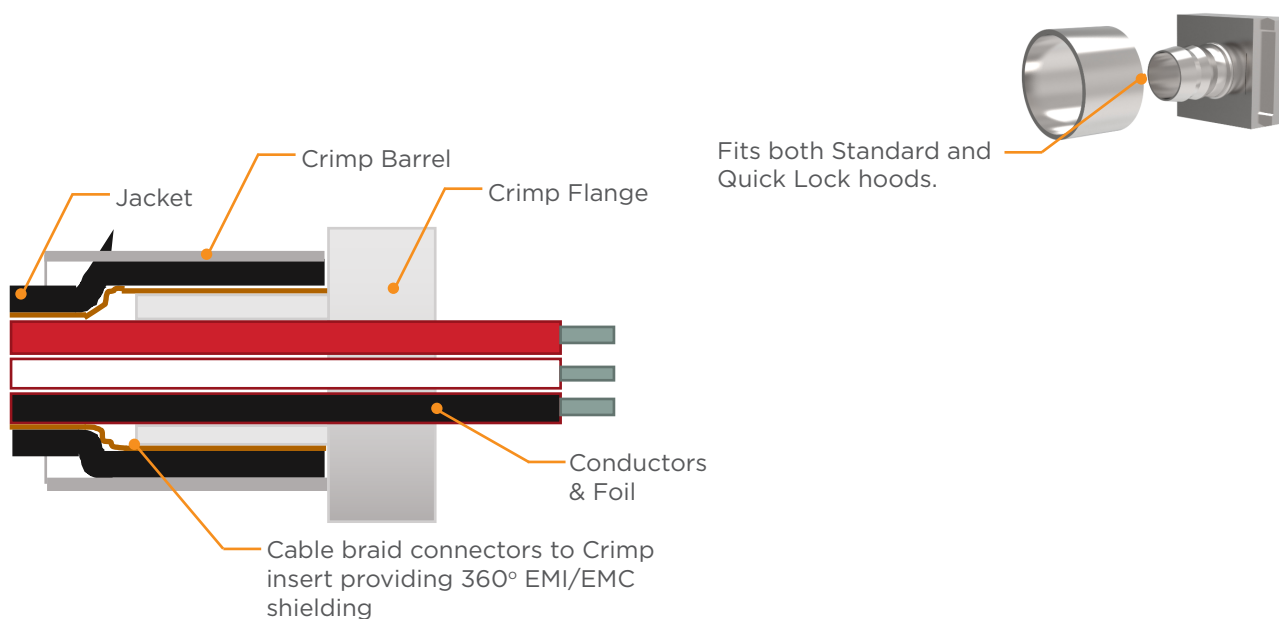
Option 1: Crimped Strain relief

Cable rotation can lead to breakage of the individual wires in the cable. This can lead to intermittent system errors which are typically very difficult to find.


The Solution: Crimping the cable jacket

Advantage: A well defined and proven method. The crimp insert protects the conductors against damage during the crimping process.

Creating Unparalleled EMI Shielding all around the connector.



How to select the correct crimp flange

| Step | Description | Example |
|------|--|---|
| 1 | Measure the outside cable diameter (3 times on different places at different angles) | OD = 6.5mm |
| 2 | Strip the cable and remove the cable braiding |  |
| 3 | Measure the diameter of the inner cable bundle including the foil | ID = 4.4mm |
| 4 | Select the crimp flange with a hole diameter next up to the cable bundle diameter | PN = 2-2308349-1, ID = 4.5mm, OD = 5.5mm |
| 5 | Calculate the recommended barrel inner diameter with the following formula: Recommended Inner crimp barrel diameter = OD of crimp flange + 2x(thickness of the cable jacket) + 0.2mm | Thickness cable jacket = $6.5 - 4.4 / 2 = 1.05\text{mm}$ Barrel ID = $5.5\text{mm} + 2 \times 1.05 + 0.2\text{mm} = 7.8\text{mm}$ |
| 6 | Select the crimp barrel with the next size up | PN = 1-2308350-7, ID = 8.0mm, OD = 9.0mm |
| 7 | Order the correct crimp tool & crimp insert using the crimp barrel selection matrix | PN = 1-2823557-1 & 1-2823558-3 |
| 8 | Prepare a cable sample and check if the pull out force meets your requirements. Contact TE Connectivity representative in case of any questions. | |

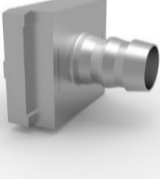
D-Sub Backshells

For D-Subminiature Connectors

Ordering Information

Crimp Strain relief

Crimp flanges (Can be used with all shells)

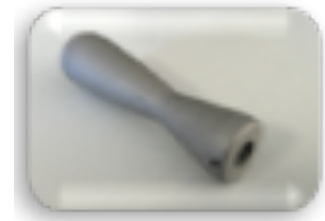
| Picture | Size 1-4 QD shells 1-3 Std Shells P/N | Size 5 QD shells or size 4-5 Std Shells P/N | Inner diameter / cable diameter | Outer diameter |
|---|--|---|------------------------------------|----------------|
|  | 2-2308349-4 | 1-2308348-1 | 3.0 | 4.0 |
| | 2-2308349-3 | 1-2308348-2 | 3.5 | 4.5 |
| | 2-2308349-2 | 1-2308348-3 | 4.0 | 5.0 |
| | 2-2308349-1 | 1-2308348-4 | 4.5 | 5.5 |
| | 2-2308349-0 | 1-2308348-5 | 5.0 | 6.0 |
| | 1-2308349-9 | 1-2308348-6 | 5.5 | 6.5 |
| | 1-2308349-8 | - | 5.7 | 6.7 |
| | 1-2308349-7 | 1-2308348-7 | 6.0 | 7.0 |
| | 1-2308349-6 | 1-2308348-8 | 6.5 | 7.5 |
| | 1-2308349-5 | 1-2308348-9 | 7.0 | 8.0 |
| | 1-2308349-4 | 1-2308348-0 | 7.6 | 8.5 |
| | 1-2308349-3 | 2-2308348-1 | 8.0 | 9.0 |
| | 1-2308349-2 | 2-2308348-2 | 8.5 | 9.5 |
| | 1-2308349-1 | 2-2308348-3 | 9.0 | 10.0 |
| | - | 2-2308348-4 | 9.5 | 10.5 |
| | - | 2-2308348-5 | 10.0 | 11.0 |
| | - | 2-2308348-6 | 10.5 | 11.5 |
| - | 2-2308348-7 | 11.0 | 12.0 | |

Recommended Tooling




TE

Cable Jacket stripping tool
2119000-1



Crimp flange insert tool
1-2314418-1 for small size
flanges
1-2314418-2 for large
size flanges

Crimp barrel (in combination wth crimp flanges)

| Picture | Part Number | Barrel Inner diame- ter/cable diameter | Barrel Outer diameter | PN recommended crimp insert |
|---|-------------|---|--------------------------|--------------------------------|
|  | 1-2308350-1 | 5.0 | 6.0 | 1-2823558-8 |
| | 1-2308350-2 | 5.5 | 6.5 | 1-2823558-9 |
| | 1-2308350-3 | 6.0 | 7.0 | 2-2823558-0 |
| | 1-2308350-4 | 6.5 | 7.5 | 2-2823558-1 |
| | 1-2308350-5 | 7.0 | 8.0 | 2-2823558-2 |
| | 1-2308350-6 | 7.5 | 8.5 | 2-2823558-3 |
| | 1-2308350-7 | 8.0 | 9.0 | 2-2823558-4 |
| | 1-2308350-8 | 8.5 | 9.5 | 2-2823558-5 |
| | 1-2308350-9 | 9.0 | 10.0 | 2-2823558-6 |
| | 2-2308350-0 | 9.5 | 10.5 | 2-2823558-7 |
| | 2-2308350-1 | 10.0 | 11.0 | 2-2823558-8 |
| | 2-2308350-2 | 10.5 | 11.5 | 2-2823558-9 |
| | 2-2308350-3 | 11.0 | 12.0 | 3-2823558-0 |
| | 2-2308350-4 | 11.5 | 12.5 | 3-2823558-1 |
| | 2-2308350-5 | 11.7 | 13.0 | 3-2823558-2 |
| | 2-2308350-6 | 12.0 | 13.0 | 3-2823558-3 |
| | 2-2308350-7 | 12.5 | 13.5 | 3-2823558-4 |
| | 2-2308350-8 | 13.0 | 14.0 | 3-2823558-5 |
| | 2-2308350-9 | 13.7 | 15.0 | 3-2823558-6 |
| | 3-2308350-0 | 14.0 | 15.0 | 3-2823558-7 |
| 3-2308350-1 | 14.5 | 15.5 | 3-2823558-8 | |
| 3-2308350-2 | 16.0 | 17.0 | 3-2823558-9 | |



Crimp tool
1-2823557-1



Crimp Insert
X-2823558-X (see table for
recommended crimp insert)

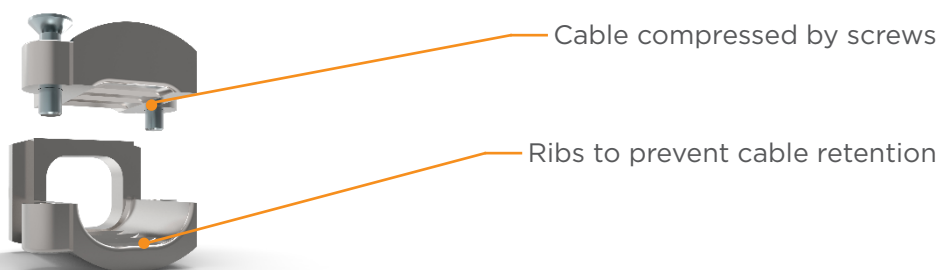
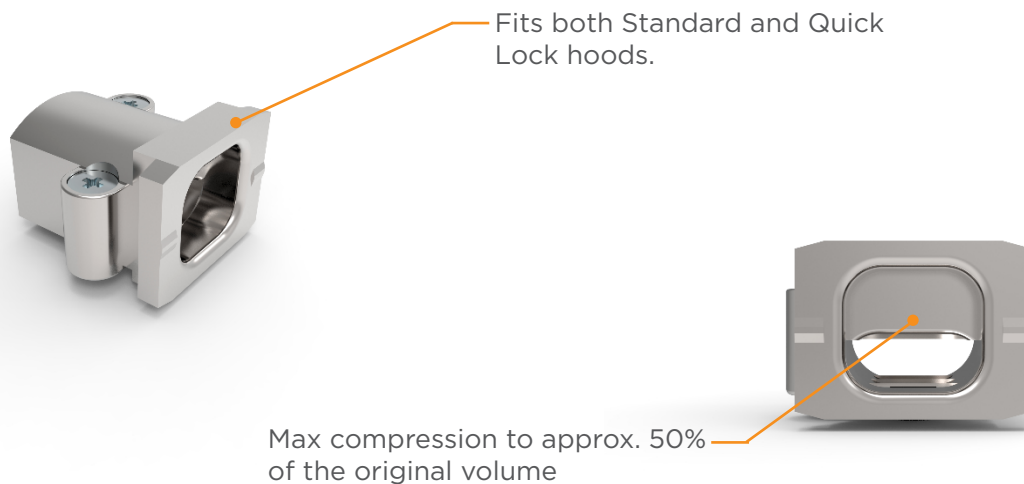
D-Sub Backshells

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Cable Exit Options

Option 2: Cable outlet with screws

For quick and easy installation requiring no special tools our cable outlet with screws option suits those needing a fast and simple installation. With a two piece cable clamp to allow for effective strain relief this cable exit is fitted with ribs to prevent cable retention.



Ordering Information

| Fits on shells | | Cable diameter | Part Number |
|------------------|------------------|----------------|-------------|
| Standard shell | Quick Lock shell | | |
| Size 1-3 (small) | Size 1-4 | 4-7mm | 1-2308272-1 |
| | | 7-10mm | 1-2308272-2 |
| | | 9-12mm | 1-2308272-3 |
| | | 11-14mm | 1-2308272-4 |
| Size 4-5 (Large) | Size 5 | 8-10mm | 1-2308272-5 |
| | | 11-14mm | 1-2308272-6 |
| | | 14-16mm | 1-2308272-7 |

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