

Compact D-Sub Backshells

CARLISLE
INTERCONNECT TECHNOLOGIES



INTRODUCTION

Carlisle Interconnect Technologies' (CarlisleIT) light-weight series D-sub Backshells are designed to minimize weight and maximize internal space and EMI shielding. Our D-sub backshells are an ideal solution for high end commercial and aviation cables where weight and/or EMI shielding are critical. The light weight series backshells also feature a number of unique features that improve the ease of assembly and overall system stability.

FEATURES

- » Straight, 45° and 90° exit
- » 60% lighter than comparable industry standard products
- » Compact and efficient design maximizes internal space
- » Front panel mount capability
- » Slots for mounting stability

KEY CHARACTERISTICS

- » Tapped body style
- » Accommodates conventional and moisture proof MIL-STD-24308 D-sub connectors
- » Designed for ease of manufacturing and rework in the field
- » High precision manufacturing results in a minimal air gap
- » Very effective EMI shielding
- » RoHS and ELV compliant

BENEFITS

- » Special mounting features for mechanical mounting stability that maximizes cable strain relief strength. This subsequently prevents potential damage to individual wires and electrical contacts.
- » Readily available engineering support for shield termination methods that optimize the mechanical and electrical system performances.
- » Custom designs are available to suit special application requirements such as tight space limitations or bending radii.

Compact D-Sub Backshells



Straight exit angle backshells

STRAIGHT EXIT ANGLE BACKSHELL

Features:

- » Straight cable exit
- » Unique front panel mount feature
- » Slots for 4-40 screw or tie strap to provide more mounting stability

Ideal Applications:

- » Aerospace video and Ethernet
- » EMI protection
- » Weight sensitive

Kit Contents:

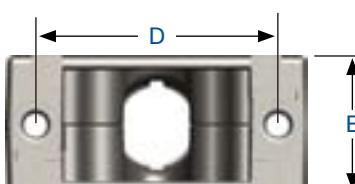
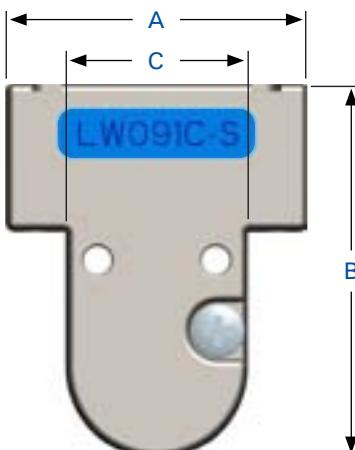
- » 2 shell halves
- » 2 screws (MS51957)

Standard Material:

- » Shell - aluminum alloy with electroless nickel plating
- » 4-40 pan head screws - stainless steel

Optional Material:

- » Zinc alloy or metализированное пластик
- » Additional plating upon customers' request



45° exit angle backshells

45° EXIT ANGLE BACKSHELL

Features:

- » 45° cable exit
- » Unique front panel mount feature
- » Slots for 4-40 screw or tie strap to provide more mounting stability

Ideal Applications:

- » Aerospace video and Ethernet
- » EMI protection
- » Weight sensitive

Kit Contents:

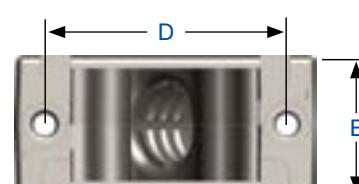
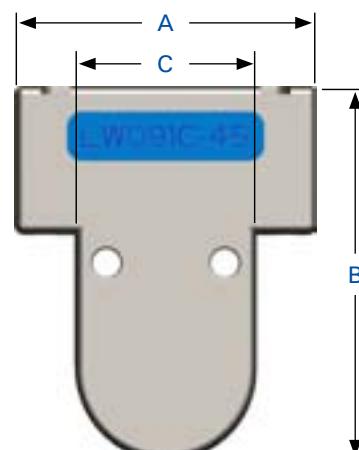
- » 2 shell halves
- » 2 screws (MS51957)

Standard Material:

- » Shell - aluminum alloy with electroless nickel plating
- » 4-40 pan head screws - stainless steel

Optional Material:

- » Zinc alloy or metализированное пластик
- » Additional plating upon customers' request



Shell Size	Dimensions in Inches					Cable DIA (Min-Max) in Inches	Weight (Grams)	CarlisleIT P/N
	A	B	C	D	E			
1/E	1.230	1.500	0.740	0.984	0.560	0.1 - 0.3	18.0	LW091C-S
2/A	1.550	1.800	1.000	1.312	0.580	0.1 - 0.3	25.0	LW092C-S
3/B	2.100	1.800	1.475	1.852	0.580	0.2 - 0.4	28.5	LW123C-S
4/C	2.750	2.000	2.155	2.500	0.580	0.3 - 0.6	36.0	LW154C-S
5/D	2.650	2.000	2.085	2.406	0.680	0.3 - 0.6	38.0	LW165C-S

Notes:
1. The parts shown in the above table are standard items, other strain relief diameters can be available upon request.
2. Parts are packaged unassembled.

Shell Size	Dimensions in Inches					Cable DIA (Min-Max) in Inches	Weight (Grams)	CarlisleIT P/N
	A	B	C	D	E			
1/E	1.230	1.500	0.740	0.984	0.560	0.1 - 0.3	18.0	LW091C-45
2/A	1.550	1.800	1.000	1.312	0.590	0.2 - 0.48	25.0	LW122C-45
3/B	2.100	1.800	1.475	1.852	0.580	0.2 - 0.4	28.5	LW123C-45
4/C	2.750	2.000	2.155	2.500	0.580	0.3 - 0.5	35.0	LW154C-45
5/D	2.650	2.000	2.085	2.406	0.690	0.3 - 0.6	38.0	LW165C-45

Notes:
1. The parts shown in the above table are standard items, other strain relief diameters can be available upon request.
2. Parts are packaged unassembled.

Compact D-Sub Backshells



90° exit angle backshells

90° EXIT ANGLE BACKSHELL

Features:

- » 90° cable exit

Ideal Applications:

- » Aerospace video and Ethernet
- » EMI protection
- » Weight sensitive

Kit Contents:

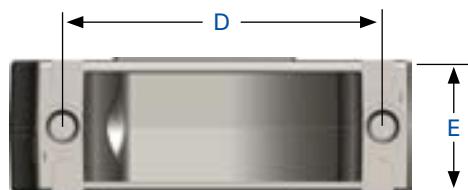
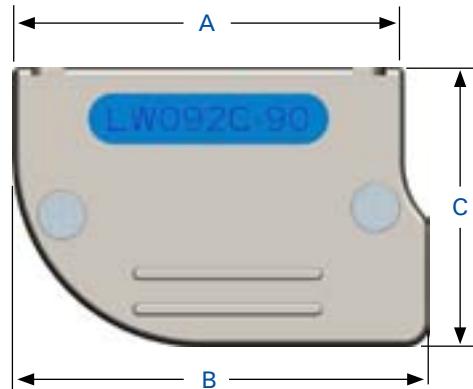
- » 2 shell halves
- » 2 screws

Standard Material:

- » Shell - cast aluminum alloy with electroless nickel plating
- » Flat head screws - stainless steel

Optional Material:

- » Zinc alloy or metalized plastic
- » Additional plating upon customers' request



Shell Size	Dimensions in Inches					Cable DIA (Min-Max) in Inches	Weight (Grams)	CarlisleIT P/N
	A	B	C	D	E			
1/E	1.230	1.330	0.95	0.984	0.540	0.10 - 0.25	12.0	LW071C-90
2/A	1.550	1.650	1.10	1.312	0.540	0.15 - 0.35	15.0	LW092C-90
3/B	2.100	2.200	1.20	1.852	0.540	0.20 - 0.40	18	LW123C-90
4/C	2.750	2.850	1.50	2.500	0.540	0.30 - 0.60	30	LW164C-90
5/D	2.650	2.750	1.50	2.406	0.680	0.35 - 0.65	34	LW165C-90

Notes:

1. The parts shown in the above table are standard items, other strain relief diameters can be available upon request.
2. Parts are packaged unassembled.