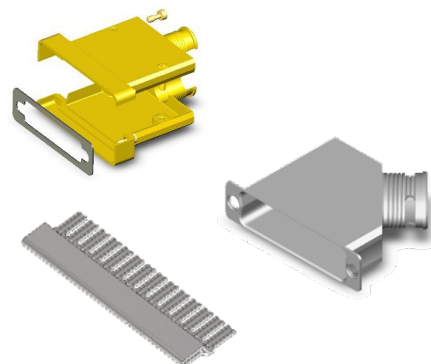


Features and Benefits

- Standard and Haloring variant
- Ultra-light weight
- Solid fully machined aluminium alloy material
- Non-Magnetic
- EMI application

Typical Applications

- Space equipment (engineering model, constellations)
- Satellites harnesses
- Avionics/ Military



Specification

- High performance D-SUB Lightweight Backshells and Haloring meet stringent tests for residual magnetism and are suitable for use in Space Engineering Model, Avionics and Military applications.
- Suitable for Board to Cable or Cable to Cable applications.
- Shell sizes available: E, A, B, C, D and F
- 3 variants:
 - Standard Lightweight Backshell
 - Lightweight Backshell for EMI Application
 - Lightweight Backshell Haloring Compatible

Quality Level

- “Commercial Space Grade”.
- C&K Specification CS FR022, for low cost products manufactured:
 - In the same ESA qualified site
 - Through the same piece parts
 - With lighter controls, documentation and traceability

The backshells are totally compatible, interchangeable and intermateable with ESA quality level connectors ESCC 3401/001 (D*M connectors), 3401/002 (D*MA connectors) and 3401/072 (Backshells).

Options

- Haloring – Be ordered separately.
- Male screwlock with clip - Be ordered separately.

Packaging

- Individual packaging.

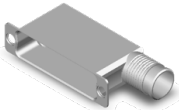
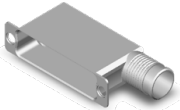
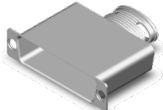
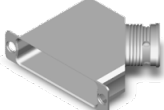
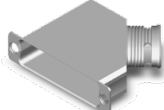
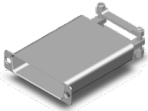
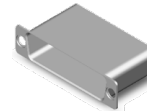
Characteristics

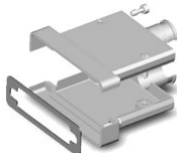
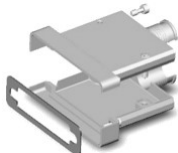
CHARACTERISTIC	SPECIFICATION
Operating temperature range	-55/+125 °C
Storage temperature range	-55/+125 °C
Residual Magnetism Level	200 Gamma max.

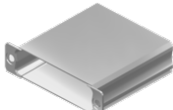
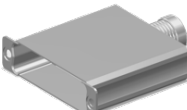
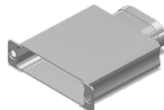
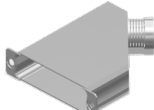
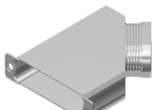
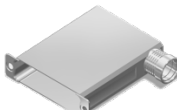
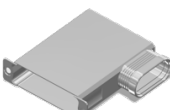
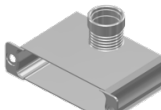
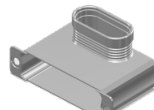
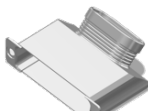
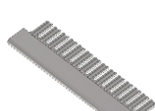
MATERIALS & FINISHES

COMPONENT	MATERIAL	FINISH
Backshell	Aluminium Alloy 6061-T6	Code A174: 25.4 µm min. electroless Nickel Code FR172: 0.7 µm min. Gold over 25.4 µm min. electroless Nickel
Haloring	Copper Alloy	5µm min. Silver
Screws	Brass	0.7 µm Gold over 1 µm min. Cu
EMI Gasket	Silicone conductive elastomer	None

PRODUCT LIST

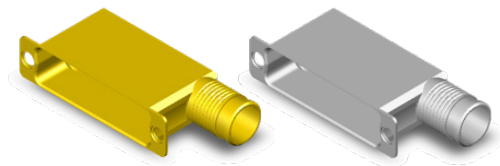
STANDARD LIGHTWEIGHT BACKSHELL					
	90° Circular Right Outlet	Page 4		90° Circular Left Outlet	Page 5
	Top Circular Outlet	Page 6		Top Elliptical Outlet	Page 7
	45° Elliptical Right Outlet	Page 8		45° Elliptical Left Outlet	Page 9
	Saddle Clamp Top Outlet	Page 10		Closed Extra Shorting Can	Page 11
	Closed Shorting Can	Page 12			

LIGHTWEIGHT BACKSHELL - EMI APPLICATION			
	Top Cylindrical Outlet - Rear Mounting	Page 14	
			Top Cylindrical Outlet - Front Mounting
			Page 16

LIGHTWEIGHT BACKSHELLS - HALORING COMPATIBLE AND HALORING					
	Closed Shorting Can	Page 19		Top Circular Outlet	Page 20
	Top Elliptical Outlet	Page 21		45° Circular Outlet	Page 22
	45° Elliptical Outlet	Page 23		90° Circular Outlet	Page 24
	90° Elliptical Outlet	Page 25		90° Top Circular Outlet	Page 26
	90° Top Elliptical Outlet	Page 27		45° Top Circular Outlet	Page 28
	45° Top Elliptical Outlet	Page 29		Haloring	Page 30

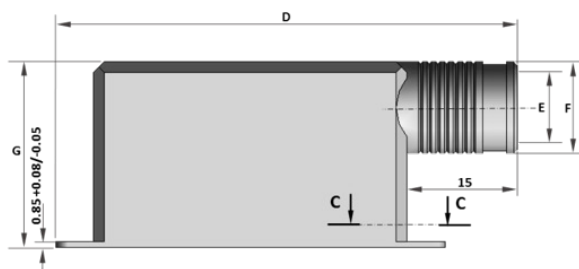
STANDARD BACKSHELL LIGHTWEIGHT

D-Sub Lightweight Backshell
90° Circular - Right Outlet
(Our design accepts right or left mounting)

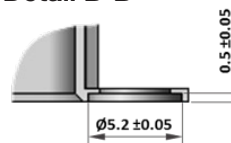


DIMENSIONS & WEIGHT

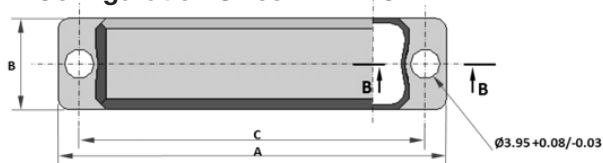
		Value							
		A ±0.2	B ±0.15	C ±0.13	D ±0.50	E ±0.15	F ±0.15	G ±0.50	Weight (grams)
Shell Size	E	30.68	12.50	24.99	40.60	7.00	9.00	25.40	7
	A	39.01	12.50	33.32	49.00	10.00	12.00	25.40	10
	B	52.91	12.50	47.04	62.70	10.50	12.50	25.40	13.5
	C	69.19	12.50	63.50	79.20	10.50	12.50	25.40	18
	D	66.80	15.30	61.11	76.70	13.30	15.30	25.40	23
	F	69.30	17.30	63.50	79.90	15.30	17.30	35.40	28



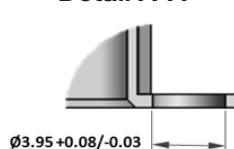
Detail B-B



Configuration Sizes E-A-B-C-D



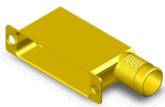
Detail A-A



Configuration Size F



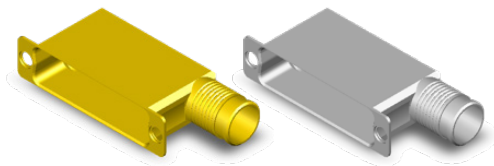
DESCRIPTION & PART NUMBERS

SHELL FINISH	SHELL SIZE	ESA/ESCC DESCRIPTION	C&K PART NUMBER
 Electroless Nickel	E	DE-BCKS-05-NMB-A174-FR022	C115366-2606B
	A	DA-BCKS-05-NMB-A174-FR022	C115366-2607B
	B	DB-BCKS-05-NMB-A174-FR022	C115366-2608B
	C	DC-BCKS-05-NMB-A174-FR022	C115366-2609B
	D	DD-BCKS-05-NMB-A174-FR022	C115366-2610B
	F	DF-BCKS-05-NMB-A174-FR022	C115366-2691B
 Gold	E	DE-BCKS-05-NMB-FR172-FR022	C115366-2606A
	A	DA-BCKS-05-NMB-FR172-FR022	C115366-2607A
	B	DB-BCKS-05-NMB-FR172-FR022	C115366-2608A
	C	DC-BCKS-05-NMB-FR172-FR022	C115366-2609A
	D	DD-BCKS-05-NMB-FR172-FR022	C115366-2610A
	F	DF-BCKS-05-NMB-FR172-FR022	C115366-2691A



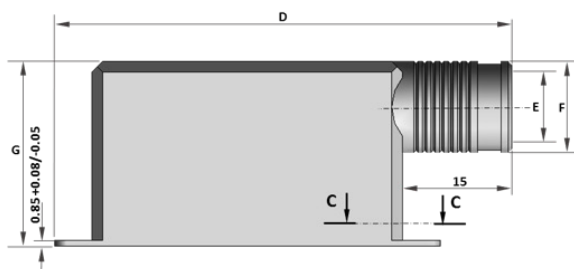
Dimensions shown in: mm
 Specifications and dimensions subject to change

D-Sub Lightweight Backshell
90° Circular - Left Outlet
(Our design accepts right or left mounting)

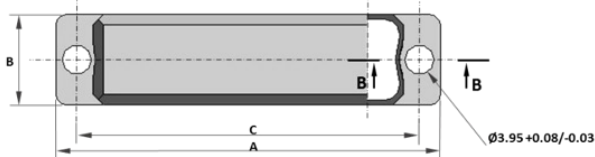


DIMENSIONS & WEIGHT

		Value							
		A ±0.2	B ±0.15	C ±0.13	D ±0.50	E ±0.15	F ±0.15	G ±0.50	Weight (grams)
Shell Size	E	30.68	12.50	24.99	40.60	7.00	9.00	25.40	7
	A	39.01	12.50	33.32	49.00	10.00	12.00	25.40	10
	B	52.91	12.50	47.04	62.70	10.50	12.50	25.40	13.5
	C	69.19	12.50	63.50	79.20	10.50	12.50	25.40	18
	D	66.80	15.30	61.11	76.70	13.30	15.30	25.40	23
	F	69.30	17.30	63.50	79.90	15.30	17.30	35.40	28



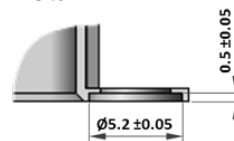
Configuration Sizes E-A-B-C-D



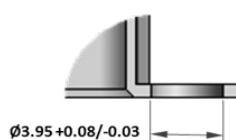
Configuration Size F



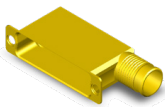
Detail B-B



Detail A-A

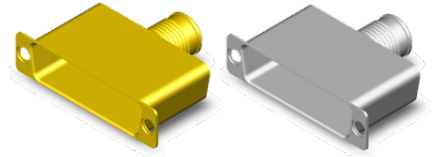


DESCRIPTION & PART NUMBERS

SHELL FINISH	SHELL SIZE	ESA/ESCC DESCRIPTION	C&K PART NUMBER
 Electroless Nickel	E	DE-BCKS-06-NMB-A174-FR022	C115366-2611B
	A	DA-BCKS-06-NMB-A174-FR022	C115366-2612B
	B	DB-BCKS-06-NMB-A174-FR022	C115366-2613B
	C	DC-BCKS-06-NMB-A174-FR022	C115366-2614B
	D	DD-BCKS-06-NMB-A174-FR022	C115366-2615B
	F	DF-BCKS-05-NMB-A174-FR022	C115366-2691B
 Gold	E	DE-BCKS-06-NMB-FR172-FR022	C115366-2611A
	A	DA-BCKS-06-NMB-FR172-FR022	C115366-2612A
	B	DB-BCKS-06-NMB-FR172-FR022	C115366-2613A
	C	DC-BCKS-06-NMB-FR172-FR022	C115366-2614A
	D	DD-BCKS-06-NMB-FR172-FR022	C115366-2615A
	F	DF-BCKS-05-NMB-FR172-FR022	C115366-2691A

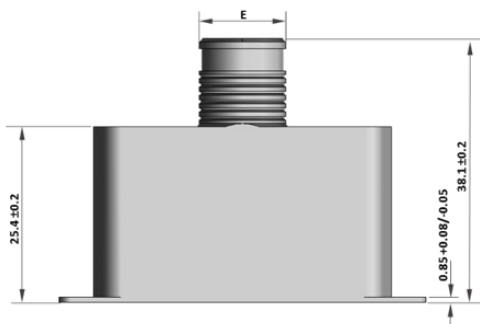
Dimensions shown in: mm
 Specifications and dimensions subject to change

D-Sub Lightweight Backshell Top Circular Outlet

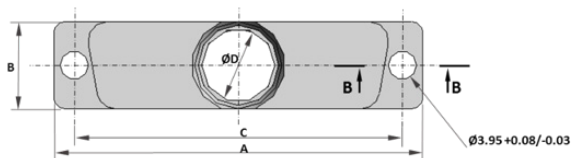


DIMENSIONS & WEIGHT

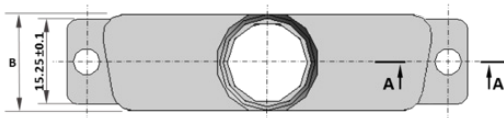
		Value				
		A ±0.2	B ±0.15	C ±0.13	D ±0.20	E ±0.15
Shell Size	E	30.68	12.50	24.99	7.00	9.00
	A	39.01	12.50	33.32	10.00	12.00
	B	52.91	12.50	47.04	10.50	12.50
	C	69.19	12.50	63.50	10.50	12.50
	D	66.80	15.30	61.11	13.30	15.30
	F	69.30	17.30	63.50	15.30	17.30



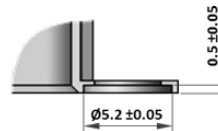
Configuration Sizes E-A-B-C-D



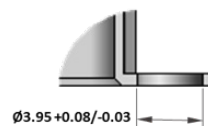
Configuration Size F



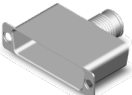
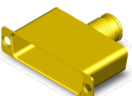
Detail B-B



Detail A-A



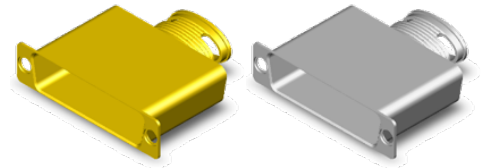
DESCRIPTION & PART NUMBERS

SHELL FINISH	SHELL SIZE	ESA/ESCC DESCRIPTION	C&K PART NUMBER
 Electroless Nickel	E	DE-BCKS-07-NMB-A174-FR022	C115366-2616B
	A	DA-BCKS-07-NMB-A174-FR022	C115366-2617B
	B	DB-BCKS-07-NMB-A174-FR022	C115366-2618B
	C	DC-BCKS-07-NMB-A174-FR022	C115366-2619B
	D	DD-BCKS-07-NMB-A174-FR022	C115366-2620B
	F	DF-BCKS-07-NMB-A174-FR022	C115366-2692B
 Gold	E	DE-BCKS-07-NMB-FR172-FR022	C115366-2616A
	A	DA-BCKS-07-NMB-FR172-FR022	C115366-2617A
	B	DB-BCKS-07-NMB-FR172-FR022	C115366-2618A
	C	DC-BCKS-07-NMB-FR172-FR022	C115366-2619A
	D	DD-BCKS-07-NMB-FR172-FR022	C115366-2620A
	F	DF-BCKS-07-NMB-FR172-FR022	C115366-2692A



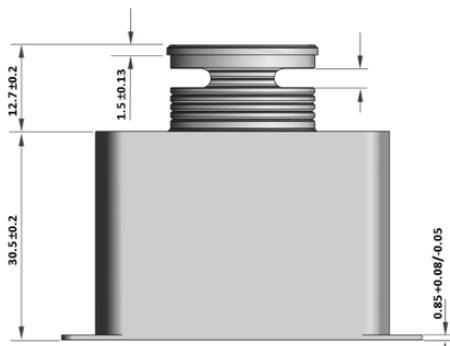
Dimensions shown in: mm
Specifications and dimensions subject to change

D-Sub Lightweight Backshell Top Elliptical Outlet

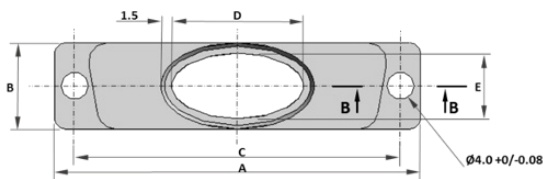


DIMENSIONS & WEIGHT

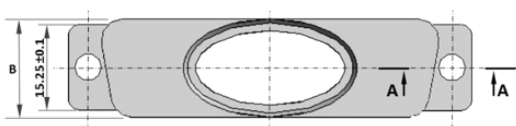
		Value				
		A ±0.2	B ±0.15	C ±0.13	D ±0.38	E ±0.15
Shell Size	E	30.68	12.50	24.99	12.70	9.50
	A	39.01	12.50	33.32	15.87	9.50
	B	52.91	12.50	47.04	19.05	9.50
	C	69.19	12.50	63.50	25.40	9.50
	D	66.80	15.30	61.11	22.22	12.30
	F	69.30	17.30	63.50	32.00	14.30
		Weight (grams)				



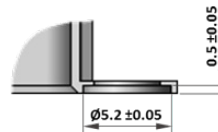
Configuration Sizes E-A-B-C-D



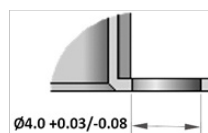
Configuration Size F



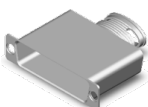
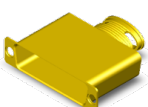
Detail B-B



Detail A-A

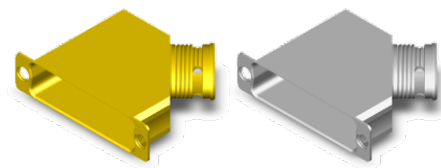


DESCRIPTION & PART NUMBERS

SHELL FINISH	SHELL SIZE	ESA/ESCC DESCRIPTION	C&K PART NUMBER
 Electroless Nickel	E	DE-BCKS-11-NMB-A174-FR022	C115366-2622B
	A	DA-BCKS-11-NMB-A174-FR022	C115366-2623B
	B	DB-BCKS-11-NMB-A174-FR022	C115366-2624B
	C	DC-BCKS-11-NMB-A174-FR022	C115366-2625B
	D	DD-BCKS-11-NMB-A174-FR022	C115366-2626B
	F	DF-BCKS-11-NMB-A174-FR022	C115366-2693B
 Gold	E	DE-BCKS-11-NMB-FR172-FR022	C115366-2622A
	A	DA-BCKS-11-NMB-FR172-FR022	C115366-2623A
	B	DB-BCKS-11-NMB-FR172-FR022	C115366-2624A
	C	DC-BCKS-11-NMB-FR172-FR022	C115366-2625A
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	F	DF-BCKS-11-NMB-FR172-FR022	C115366-2693A

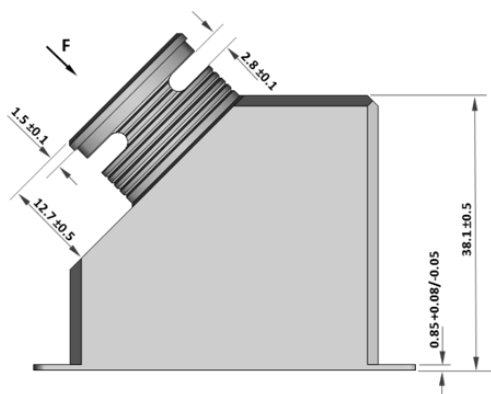
Dimensions shown in: mm
Specifications and dimensions subject to change

D-Sub Lightweight Backshell
45° Elliptical - Right Outlet
(Our design accepts right or left mounting)

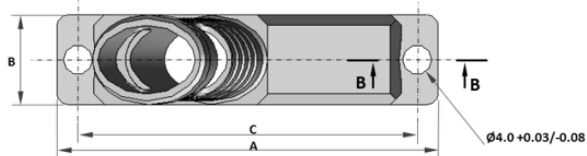


DIMENSIONS & WEIGHT

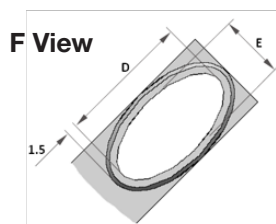
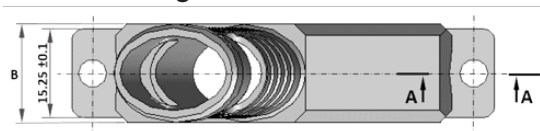
		Value				
		A ±0.2	B ±0.15	C ±0.13	D ±0.38	E ±0.15
Shell Size	E	30.68	12.50	24.99	12.70	9.50
	A	39.01	12.50	33.32	15.87	9.50
	B	52.91	12.50	47.04	19.05	9.50
	C	69.19	12.50	63.50	25.40	9.50
	D	66.80	15.30	61.11	22.22	12.30
	F	69.30	17.30	63.50	29.00	14.30
		Weight (grams)				



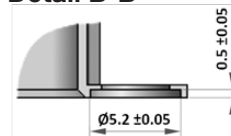
Configuration Sizes E-A-B-C-D



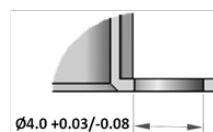
Configuration Size F



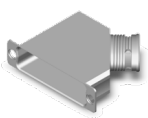
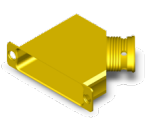
Detail B-B



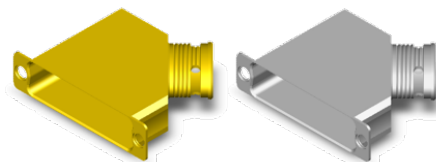
Detail A-A



DESCRIPTION & PART NUMBERS

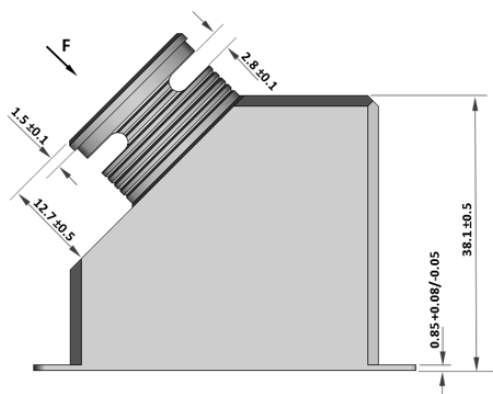
SHELL FINISH	SHELL SIZE	ESA/ESCC DESCRIPTION	C&K PART NUMBER
 Electroless Nickel	E	DE-BCKS-08-NMB-A174-FR022	C115366-2627B
	A	DA-BCKS-08-NMB-A174-FR022	C115366-2628B
	B	DB-BCKS-08-NMB-A174-FR022	C115366-2629B
	C	DC-BCKS-08-NMB-A174-FR022	C115366-2630B
	D	DD-BCKS-08-NMB-A174-FR022	C115366-2631B
	F	DF-BCKS-08-NMB-A174-FR022	C115366-2694B
 Gold	E	DE-BCKS-08-NMB-FR172-FR022	C115366-2627A
	A	DA-BCKS-08-NMB-FR172-FR022	C115366-2628A
	B	DB-BCKS-08-NMB-FR172-FR022	C115366-2629A
	C	DC-BCKS-08-NMB-FR172-FR022	C115366-2630A
	D	DD-BCKS-08-NMB-FR172-FR022	C115366-2631A
	F	DF-BCKS-08-NMB-FR172-FR022	C115366-2694A

D-Sub Lightweight Backshell
45° Elliptical - Left Outlet
(Our design accepts right or left mounting)

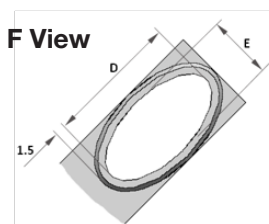


DIMENSIONS & WEIGHT

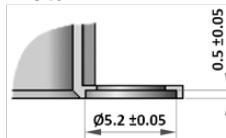
		Value				
		A ±0.2	B ±0.15	C ±0.13	D ±0.38	E ±0.15
Shell Size	E	30.68	12.50	24.99	12.70	9.50
	A	39.01	12.50	33.32	15.87	9.50
	B	52.91	12.50	47.04	19.05	9.50
	C	69.19	12.50	63.50	25.40	9.50
	D	66.80	15.30	61.11	22.22	12.30
	F	69.30	17.30	63.50	29.00	14.30
		Weight (grams)				
		10	14	20	26	33
		40				



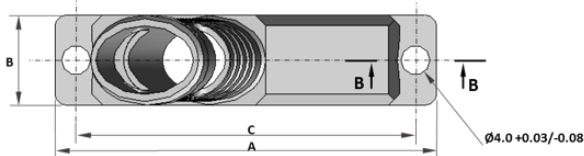
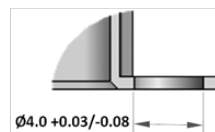
Configuration Sizes E-A-B-C-D



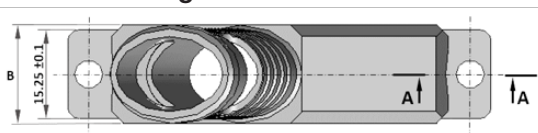
Detail B-B



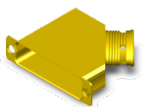
Detail A-A



Configuration Size F

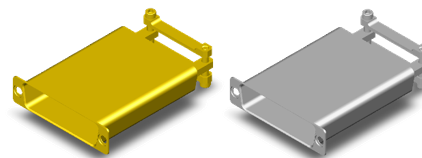


DESCRIPTION & PART NUMBERS

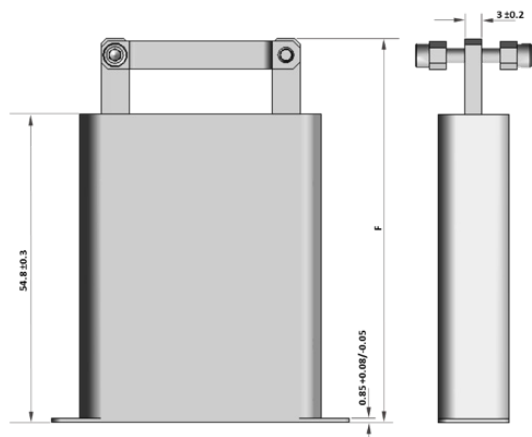
SHELL FINISH	SHELL SIZE	ESA/ESCC DESCRIPTION	C&K PART NUMBER
 Electroless Nickel	E	DE-BCKS-09-NMB-A174-FR022	C115366-2632B
	A	DA-BCKS-09-NMB-A174-FR022	C115366-2633B
	B	DB-BCKS-09-NMB-A174-FR022	C115366-2634B
	C	DC-BCKS-09-NMB-A174-FR022	C115366-2635B
	D	DD-BCKS-09-NMB-A174-FR022	C115366-2636B
	F	DF-BCKS-08-NMB-A174-FR022	C115366-2694B
 Gold	E	DE-BCKS-09-NMB-FR172-FR022	C115366-2632A
	A	DA-BCKS-09-NMB-FR172-FR022	C115366-2633A
	B	DB-BCKS-09-NMB-FR172-FR022	C115366-2634A
	C	DC-BCKS-09-NMB-FR172-FR022	C115366-2635A
	D	DD-BCKS-09-NMB-FR172-FR022	C115366-2636A
	F	DF-BCKS-08-NMB-FR172-FR022	C115366-2694A

Dimensions shown in: mm
 Specifications and dimensions subject to change

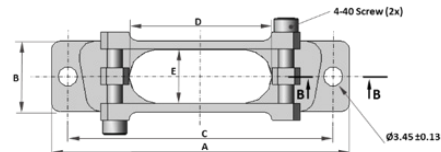
D-Sub Lightweight Backshell Saddle Clamp Top Outlet



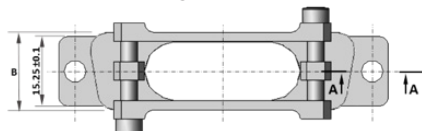
DIMENSIONS & WEIGHT



Configuration Sizes E-A-B-C-D

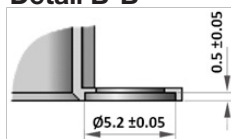


Configuration Size F

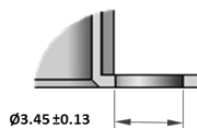


		Value						
		A ±0.2	B ±0.15	C ±0.13	D ±0.30	E ±0.25	F ±0.5	Weight (grams)
Shell Size	E	30.68	12.50	24.99	9.50	9.50	66.75	15.5
	A	39.01	12.50	33.32	18.10	9.50	66.75	19
	B	52.91	12.50	47.04	25.40	9.50	68.35	23
	C	69.19	12.50	63.50	34.90	9.50	68.35	29
	D	66.80	15.30	61.11	35.70	11.90	68.35	33
	F	69.30	17.30	63.50	47.00	13.90	68.35	37

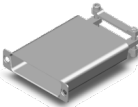
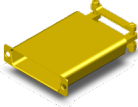
Detail B-B



Detail A-A



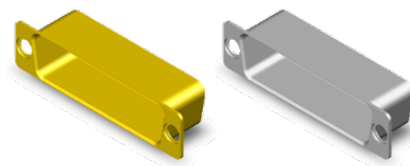
DESCRIPTION & PART NUMBERS

SHELL FINISH	SHELL SIZE	ESA/ESCC DESCRIPTION	C&K PART NUMBER
 Electroless Nickel	E	DE-BCKS-01-NMB-A174-FR022	C115366-2586B
	A	DA-BCKS-01-NMB-A174-FR022	C115366-2587B
	B	DB-BCKS-01-NMB-A174-FR022	C115366-2588B
	C	DC-BCKS-01-NMB-A174-FR022	C115366-2589B
	D	DD-BCKS-01-NMB-A174-FR022	C115366-2590B
	F	DF-BCKS-01-NMB-A174-FR022	C115366-2687B
 Gold	E	DE-BCKS-01-NMB-FR172-FR022	C115366-2586A
	A	DA-BCKS-01-NMB-FR172-FR022	C115366-2587A
	B	DB-BCKS-01-NMB-FR172-FR022	C115366-2588A
	C	DC-BCKS-01-NMB-FR172-FR022	C115366-2589A
	D	DD-BCKS-01-NMB-FR172-FR022	C115366-2590A
	F	DF-BCKS-01-NMB-FR172-FR022	C115366-2687A



Dimensions shown in: mm
Specifications and dimensions subject to change

D-Sub Lightweight Backshell Closed - Extra Shorting Can

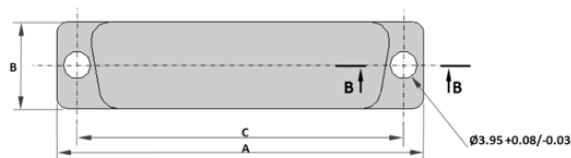


DIMENSIONS & WEIGHT

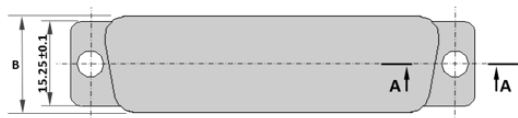
		Value			
		A ±0.2	B ±0.15	C ±0.13	Weight (grams)
Shell Size	E	30.68	12.50	24.99	8
	A	39.01	12.50	33.32	10
	B	52.91	12.50	47.04	14
	C	69.19	12.50	63.50	20
	D	66.80	15.30	61.11	26
	F	69.30	17.30	63.50	30



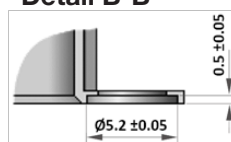
Configuration Sizes E-A-B-C-D



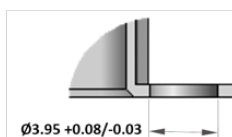
Configuration Size F



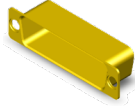
Detail B-B



Detail A-A

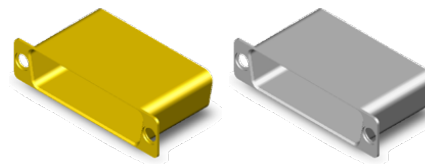


DESCRIPTION & PART NUMBERS

SHELL FINISH	SHELL SIZE	ESA/ESCC DESCRIPTION	C&K PART NUMBER
 Electroless Nickel	E	DE-BCKS-10-NMB-A174-FR022	C115366-2637B
	A	DA-BCKS-10-NMB-A174-FR022	C115366-2638B
	B	DB-BCKS-10-NMB-A174-FR022	C115366-2639B
	C	DC-BCKS-10-NMB-A174-FR022	C115366-2640B
	D	DD-BCKS-10-NMB-A174-FR022	C115366-2641B
	F	DF-BCKS-10-NMB-A174-FR022	C115366-2695B
 Gold	E	DE-BCKS-10-NMB-FR172-FR022	C115366-2637A
	A	DA-BCKS-10-NMB-FR172-FR022	C115366-2638A
	B	DB-BCKS-10-NMB-FR172-FR022	C115366-2639A
	C	DC-BCKS-10-NMB-FR172-FR022	C115366-2640A
	D	DD-BCKS-10-NMB-FR172-FR022	C115366-2641A
	F	DF-BCKS-10-NMB-FR172-FR022	C115366-2695A

Dimensions shown in: mm
Specifications and dimensions subject to change

D-Sub Lightweight Backshell Closed - Shorting Can

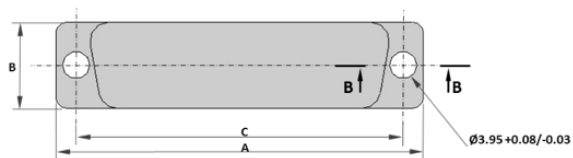


DIMENSIONS & WEIGHT

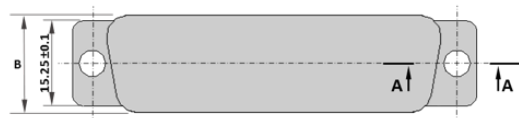
		Value			
		A ± 0.2	B ± 0.15	C ± 0.13	Weight (grams)
Shell Size	E	30.68	12.50	24.99	8
	A	39.01	12.50	33.32	10
	B	52.91	12.50	47.04	14
	C	69.19	12.50	63.50	20
	D	66.80	15.30	61.11	26
	F	69.30	17.30	63.50	30



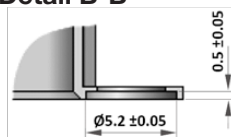
Configuration Sizes E-A-B-C-D



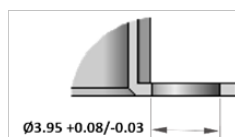
Configuration Size F



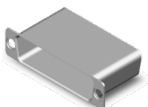
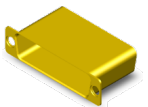
Detail B-B



Detail A-A



DESCRIPTION & PART NUMBERS

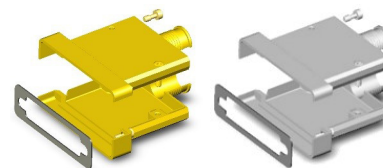
SHELL FINISH	SHELL SIZE	ESA/ESCC DESCRIPTION	C&K PART NUMBER
 Electroless Nickel	E	DE-BCKS-02-NMB-A174-FR022	C115366-2591B
	A	DA-BCKS-02-NMB-A174-FR022	C115366-2592B
	B	DB-BCKS-02-NMB-A174-FR022	C115366-2593B
	C	DC-BCKS-02-NMB-A174-FR022	C115366-2594B
	D	DD-BCKS-02-NMB-A174-FR022	C115366-2595B
	F	DF-BCKS-02-NMB-A174-FR022	C115366-2688B
 Gold	E	DE-BCKS-02-NMB-FR172-FR022	C115366-2591A
	A	DA-BCKS-02-NMB-FR172-FR022	C115366-2592A
	B	DB-BCKS-02-NMB-FR172-FR022	C115366-2593A
	C	DC-BCKS-02-NMB-FR172-FR022	C115366-2594A
	D	DD-BCKS-02-NMB-FR172-FR022	C115366-2595A
	F	DF-BCKS-02-NMB-FR172-FR022	C115366-2688A



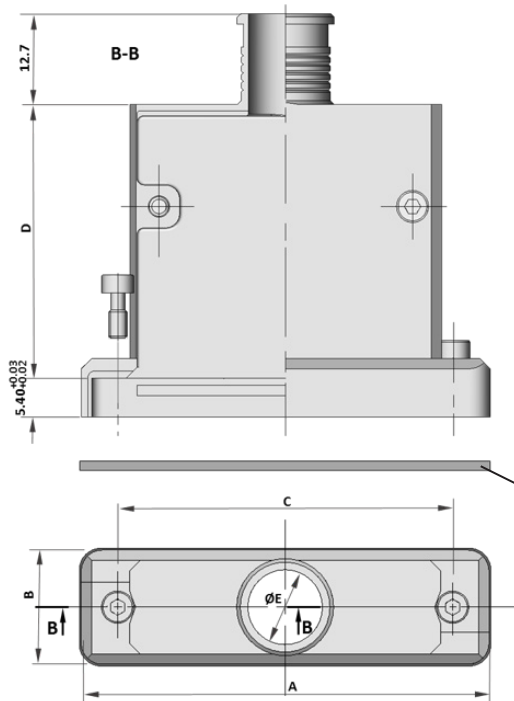
Dimensions shown in: mm
Specifications and dimensions subject to change

EMI BACKSHELL LIGHTWEIGHT

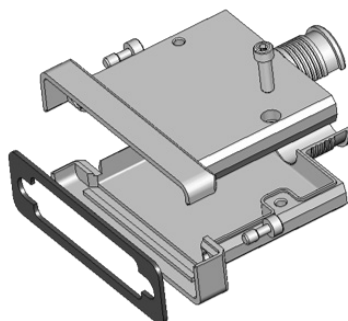
D-Sub Lightweight Backshell Top Cylindrical Outlet - EMI Application Rear Mounting



DIMENSIONS & WEIGHT



		Value				
		A ±0.25	B ±0.25	C ±0.13	D ±0.30	E ±0.25
Shell Size	E	35.03	15.98	24.99	32.70	6.73
	A	43.36	15.98	33.32	32.70	9.90
	B	57.25	15.98	47.04	38.30	10.54
	C	73.53	15.98	63.50	38.30	10.54
	D	71.14	18.75	61.11	38.30	13.33
	F	73.50	20.80	63.50	38.30	15.40
		Weight (grams)				
		21	26	30	35	40
		45				



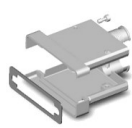
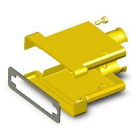
EMI Gaskets (3x):

- 1.40±0.1mm - to use with panel thickness within 0.77mm and 1.16mm
- 1.00±0.1mm - to use with panel thickness within 1.16mm and 1.55mm
- 0.60±0.1mm - to use with panel thickness within 1.55mm and 1.98mm

Backshell delivered with:

- 3 EMI gaskets to use according to panel thickness
- 2 Jackscrews 4-40 NC 2A Hexagonal Hole Head
- 2 screwlocks to fix the shells

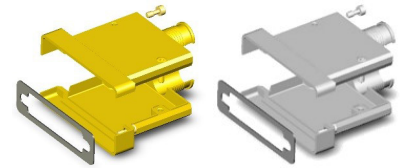
DESCRIPTION & PART NUMBERS

SHELL FINISH	SHELL SIZE	ESA/ESCC DESCRIPTION	C&K PART NUMBER
 Electroless Nickel	E	DE-BCKS-04-NMB-A174-FR022	C115366-2601B
	A	DA-BCKS-04-NMB-A174-FR022	C115366-2602B
	B	DB-BCKS-04-NMB-A174-FR022	C115366-2603B
	C	DC-BCKS-04-NMB-A174-FR022	C115366-2604B
	D	DD-BCKS-04-NMB-A174-FR022	C115366-2605B
	F	DF-BCKS-04-NMB-A174-FR022	C115366-2690B
 Gold	E	DE-BCKS-04-NMB-FR172-FR022	C115366-2601A
	A	DA-BCKS-04-NMB-FR172-FR022	C115366-2602A
	B	DB-BCKS-04-NMB-FR172-FR022	C115366-2603A
	C	DC-BCKS-04-NMB-FR172-FR022	C115366-2604A
	D	DD-BCKS-04-NMB-FR172-FR022	C115366-2605A
	F	DF-BCKS-04-NMB-FR172-FR022	C115366-2690A

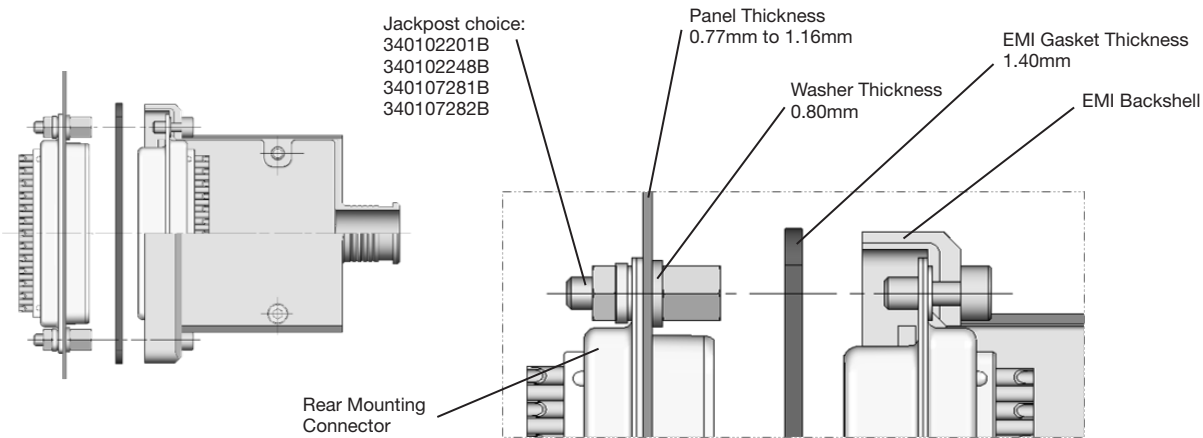


Dimensions shown in: mm
Specifications and dimensions subject to change

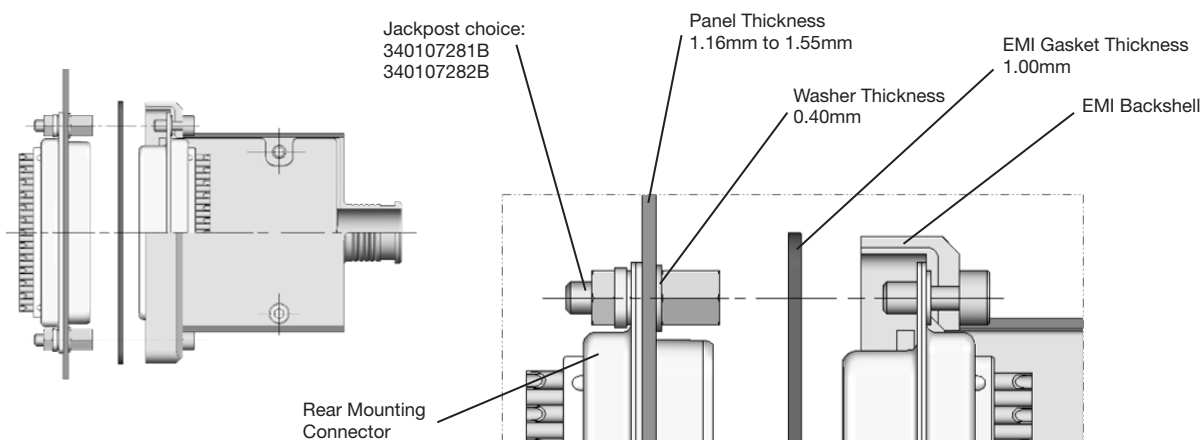
D-Sub Lightweight Backshell Top Cylindrical Outlet - EMI Application Rear Mounting



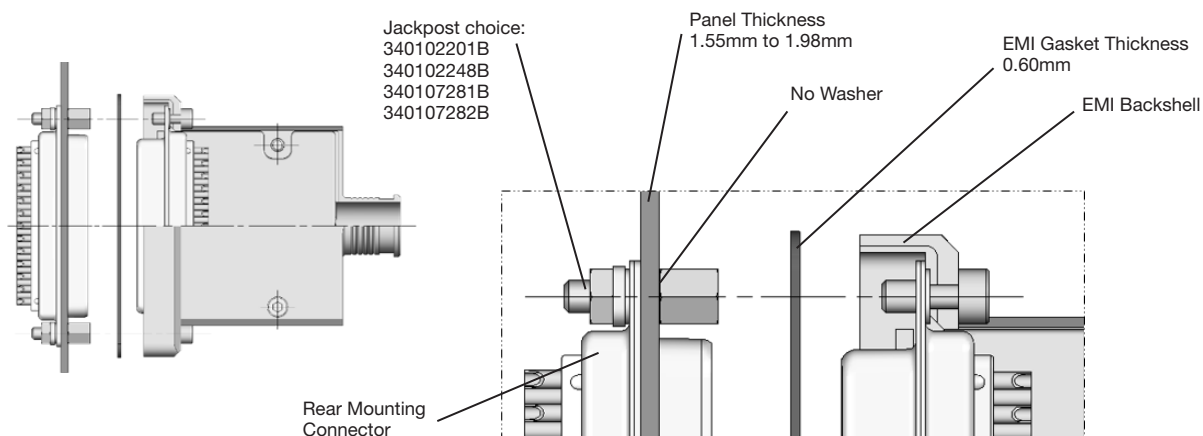
MOUNTING RECOMMENDATION - Panel Thickness within 0.77mm and 1.16mm



MOUNTING RECOMMENDATION - Panel Thickness within 1.16mm and 1.55mm

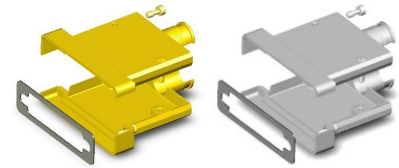


MOUNTING RECOMMENDATION - Panel Thickness within 1.55mm and 1.98mm

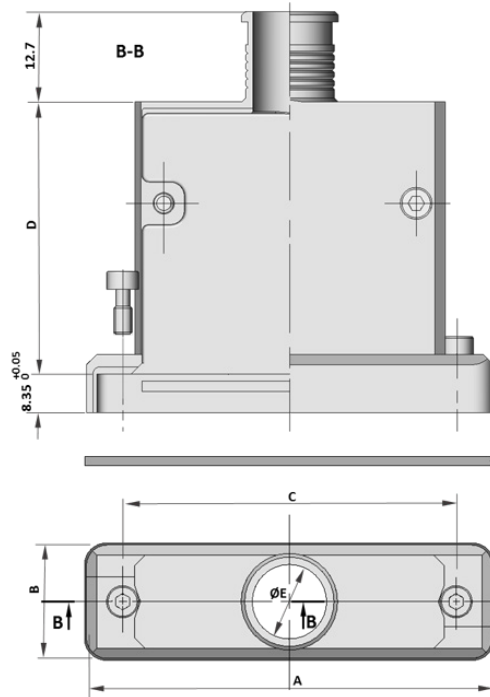


Dimensions shown in: mm
Specifications and dimensions subject to change

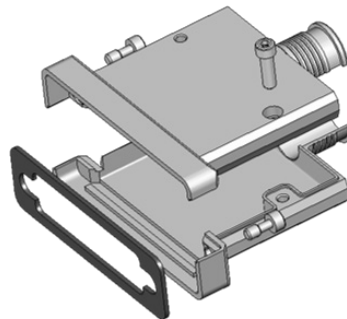
D-Sub Lightweight Backshell Top Cylindrical Outlet - EMI Application Front Mounting



DIMENSIONS & WEIGHT



		Value				
		A ±0.25	B ±0.25	C ±0.13	D ±0.30	E ±0.25
Shell Size	E	35.03	15.98	24.99	32.70	6.73
	A	43.36	15.98	33.32	32.70	9.90
	B	57.25	15.98	47.04	38.30	10.54
	C	73.53	15.98	63.50	38.30	10.54
	D	71.14	18.75	61.11	38.30	13.33
	F	73.50	20.80	63.50	38.30	15.40
		Weight (grams)				
		21	26	30	35	40
		45				

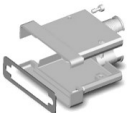
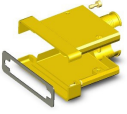


EMI Gaskets:
0.60±0.1mm thickness

Backshell delivered with:

- 1 EMI gasket
- 2 Jackscrews 4-40 NC 2A Hexagonal Hole Head
- 2 screwlocks to fix the shells

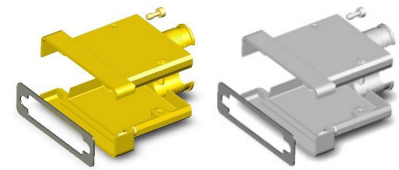
DESCRIPTION & PART NUMBERS

SHELL FINISH	SHELL SIZE	ESA/ESCC DESCRIPTION	C&K PART NUMBER
 Electroless Nickel	E	DE-BCKS-03-NMB-A174-FR022	C115366-2596B
	A	DA-BCKS-03-NMB-A174-FR022	C115366-2597B
	B	DB-BCKS-03-NMB-A174-FR022	C115366-2598B
	C	DC-BCKS-03-NMB-A174-FR022	C115366-2599B
	D	DD-BCKS-03-NMB-A174-FR022	C115366-2600B
	F	DF-BCKS-03-NMB-A174-FR022	C115366-2689B
 Gold	E	DE-BCKS-03-NMB-FR172-FR022	C115366-2596A
	A	DA-BCKS-03-NMB-FR172-FR022	C115366-2597A
	B	DB-BCKS-03-NMB-FR172-FR022	C115366-2598A
	C	DC-BCKS-03-NMB-FR172-FR022	C115366-2599A
	D	DD-BCKS-03-NMB-FR172-FR022	C115366-2600A
	F	DF-BCKS-03-NMB-FR172-FR022	C115366-2689A

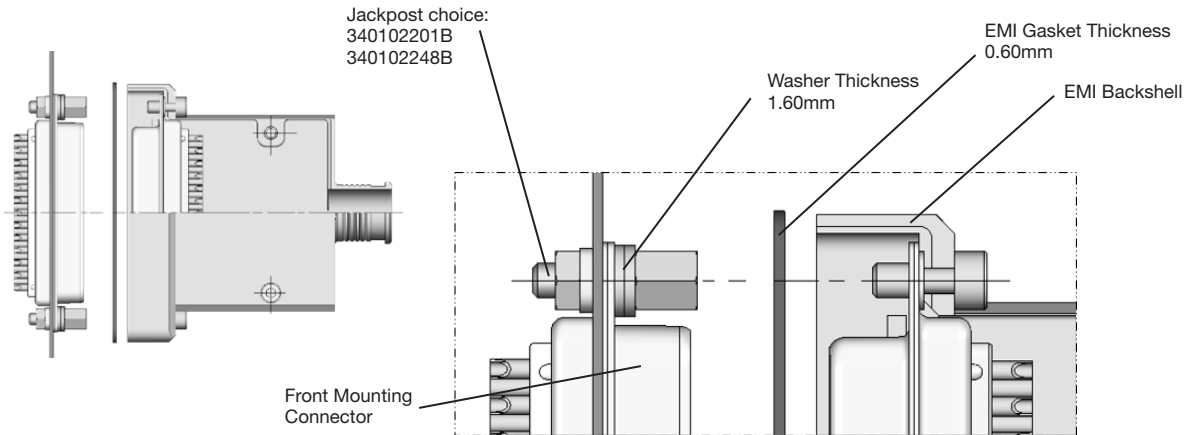


Dimensions shown in: mm
Specifications and dimensions subject to change

D-Sub Lightweight Backshell Top Cylindrical Outlet - EMI Application Front Mounting

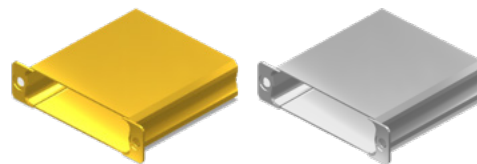


MOUNTING RECOMMENDATION



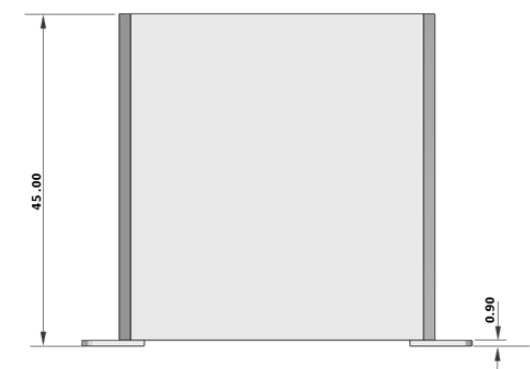
**BACKSHELL LIGHTWEIGHT
HALORING COMPATIBLE
+
HALORING**

D-Sub Lightweight Backshell
Haloring Compatible
Closed - Shorting Can

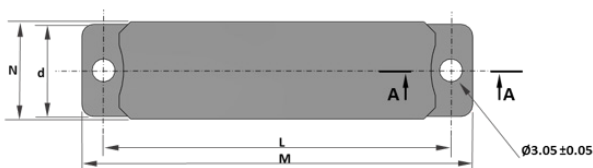
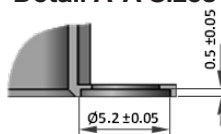


DIMENSIONS & WEIGHT

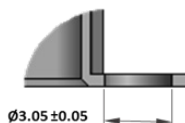
		Value				
Shell Size		M ± 0.38	N ± 0.2	d ± 0.2	L ± 0.13	Weight (grams)
	E	30.56	13.26	12.55	24.99	10.7
	A	38.89	13.26	12.55	33.32	13.5
	B	52.78	13.26	12.55	47.04	18
	C	69.04	13.26	12.55	63.50	23.6
	D	66.67	15.36	15.35	61.11	24.6
	F	69.32	18.06	17.35	63.50	26.2



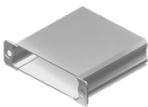
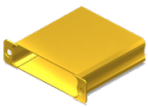
Detail A-A Sizes E, A B, C and D



Detail A-A Size F

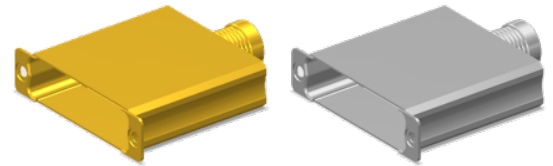


DESCRIPTION & PART NUMBERS

SHELL FINISH	SHELL SIZE	ESA/ESCC DESCRIPTION	C&K PART NUMBER
 Electroless Nickel	E	DE-BCKS-HAL-01-NMB-A174-FR022	C115366-2932B
	A	DA-BCKS-HAL-01-NMB-A174-FR022	C115366-2933B
	B	DB-BCKS-HAL-01-NMB-A174-FR022	C115366-2934B
	C	DC-BCKS-HAL-01-NMB-A174-FR022	C115366-2935B
	D	DD-BCKS-HAL-01-NMB-A174-FR022	C115366-2936B
	F	DF-BCKS-HAL-01-NMB-A174-FR022	C115366-2937B
 Gold	E	DE-BCKS-HAL-01-NMB-FR172-FR022	C115366-2932A
	A	DA-BCKS-HAL-01-NMB-FR172-FR022	C115366-2933A
	B	DB-BCKS-HAL-01-NMB-FR172-FR022	C115366-2934A
	C	DC-BCKS-HAL-01-NMB-FR172-FR022	C115366-2935A
	D	DD-BCKS-HAL-01-NMB-FR172-FR022	C115366-2936A
	F	DF-BCKS-HAL-01-NMB-FR172-FR022	C115366-2937A

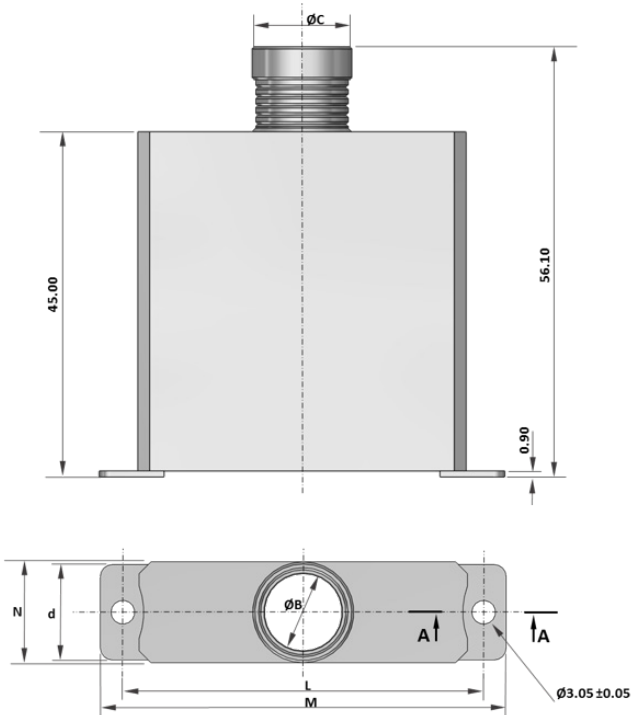
Dimensions shown in: mm
 Specifications and dimensions subject to change

D-Sub Lightweight Backshell
Haloring Compatible
Top Circular Outlet

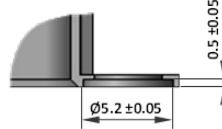


DIMENSIONS & WEIGHT

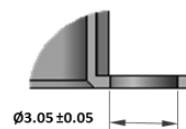
		Value						Weight (grams)
		M ± 0.38	N ± 0.2	d ± 0.2	L ± 0.13	$\varnothing B \pm 0.1$	$\varnothing C \pm 0.1$	
Shell Size	E	30.56	13.26	12.55	24.99	10.05	13.26	12
	A	38.89	13.26	12.55	33.32	10.05	13.26	14.8
	B	52.78	13.26	12.55	47.04	10.05	13.26	19.3
	C	69.04	13.26	12.55	63.50	10.05	13.26	24.9
	D	66.67	15.36	15.35	61.11	12.85	15.36	26.1
	F	69.32	18.06	17.35	63.50	14.85	18.06	27.8



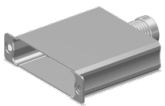
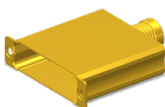
Detail A-A Sizes E, A B, C and D



Detail A-A Size F



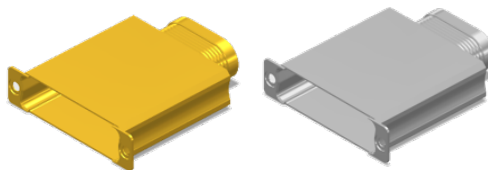
DESCRIPTION & PART NUMBERS

SHELL FINISH	SHELL SIZE	ESA/ESCC DESCRIPTION	C&K PART NUMBER
 Electroless Nickel	E	DE-BCKS-HAL-02-NMB-A174-FR022	C115366-2938B
	A	DA-BCKS-HAL-02-NMB-A174-FR022	C115366-2939B
	B	DB-BCKS-HAL-02-NMB-A174-FR022	C115366-2940B
	C	DC-BCKS-HAL-02-NMB-A174-FR022	C115366-2941B
	D	DD-BCKS-HAL-02-NMB-A174-FR022	C115366-2942B
	F	DF-BCKS-HAL-02-NMB-A174-FR022	C115366-2943B
 Gold	E	DE-BCKS-HAL-02-NMB-FR172-FR022	C115366-2938A
	A	DA-BCKS-HAL-02-NMB-FR172-FR022	C115366-2939A
	B	DB-BCKS-HAL-02-NMB-FR172-FR022	C115366-2940A
	C	DC-BCKS-HAL-02-NMB-FR172-FR022	C115366-2941A
	D	DD-BCKS-HAL-02-NMB-FR172-FR022	C115366-2942A
	F	DF-BCKS-HAL-02-NMB-FR172-FR022	C115366-2943A



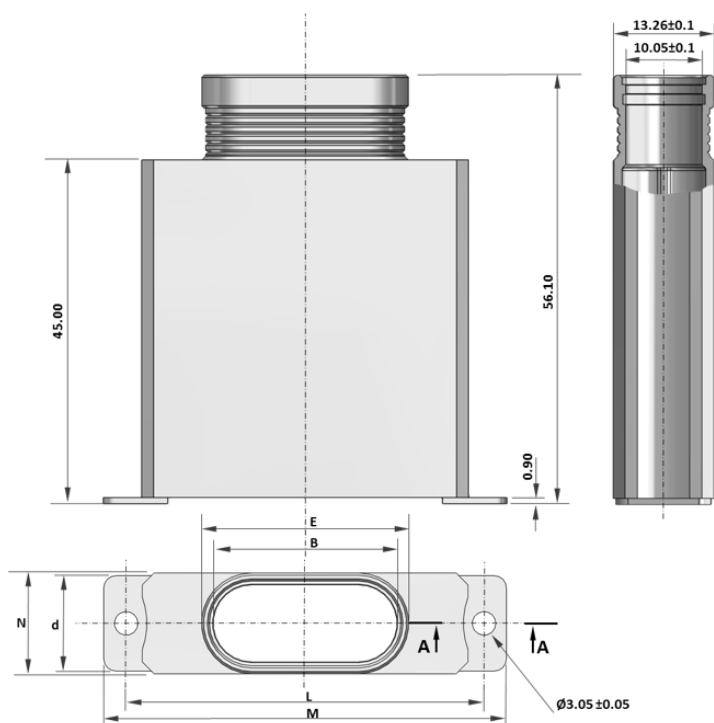
Dimensions shown in: mm
 Specifications and dimensions subject to change

D-Sub Lightweight Backshell
Haloring Compatible
Top Elliptical Outlet

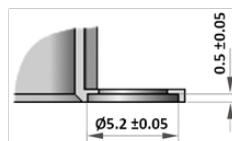


DIMENSIONS & WEIGHT

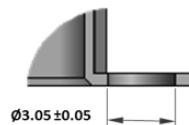
		Value					
		M ±0.38	N ±0.2	d ±0.2	L ±0.13	B ±0.15	E ±0.15
Shell Size	E	30.56	13.26	12.55	24.99	16.60	19.81
	A	38.89	13.26	12.55	33.32	24.10	27.31
	B	52.78	13.26	12.55	47.04	24.10	27.31
	C	69.04	13.26	12.55	63.50	24.10	27.31
	D	66.67	15.36	15.35	61.11	34.10	37.31
	F	69.32	18.06	17.35	63.50	37.60	40.81
		Weight (grams)					



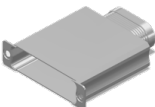
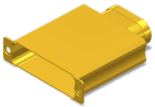
Detail A-A Sizes E, A B, C and D



Detail A-A Size F

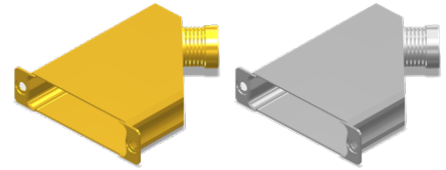


DESCRIPTION & PART NUMBERS

SHELL FINISH	SHELL SIZE	ESA/ESCC DESCRIPTION	C&K PART NUMBER
 Electroless Nickel	E	DE-BCKS-HAL-03-NMB-A174-FR022	C115366-2944B
	A	DA-BCKS-HAL-03-NMB-A174-FR022	C115366-2945B
	B	DB-BCKS-HAL-03-NMB-A174-FR022	C115366-2946B
	C	DC-BCKS-HAL-03-NMB-A174-FR022	C115366-2947B
	D	DD-BCKS-HAL-03-NMB-A174-FR022	C115366-2948B
	F	DF-BCKS-HAL-03-NMB-A174-FR022	C115366-2949B
 Gold	E	DE-BCKS-HAL-03-NMB-FR172-FR022	C115366-2944A
	A	DA-BCKS-HAL-03-NMB-FR172-FR022	C115366-2945A
	B	DB-BCKS-HAL-03-NMB-FR172-FR022	C115366-2946A
	C	DC-BCKS-HAL-03-NMB-FR172-FR022	C115366-2947A
	D	DD-BCKS-HAL-03-NMB-FR172-FR022	C115366-2948A
	F	DF-BCKS-HAL-03-NMB-FR172-FR022	C115366-2949A

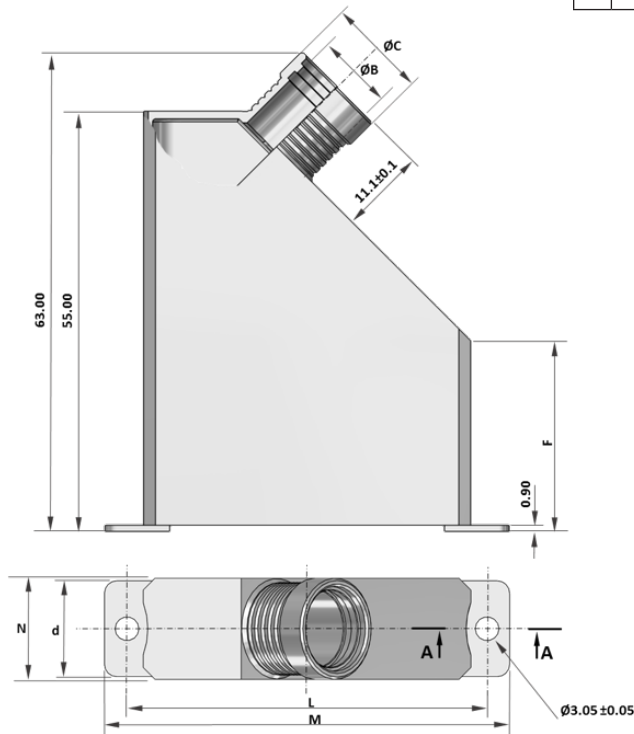
Dimensions shown in: mm
 Specifications and dimensions subject to change

D-Sub Lightweight Backshell
Haloring Compatible
45° Circular Outlet

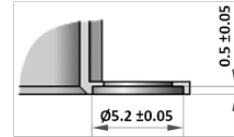


DIMENSIONS & WEIGHT

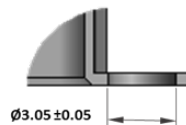
		Value						
		M ±0.38	N ±0.2	d ±0.2	L ±0.13	ØB ±0.1	ØC ±0.1	F ±0.2
Shell Size	E	30.56	13.26	12.55	24.99	10.05	13.26	40
	A	38.89	13.26	12.55	33.32	10.05	13.26	35
	B	52.78	13.26	12.55	47.04	10.05	13.26	25
	C	69.04	13.26	12.55	63.50	10.05	13.26	20
	D	66.67	15.36	15.35	61.11	12.85	15.36	20
	F	69.32	18.06	17.35	63.50	14.85	18.06	20
		Weight (grams)						



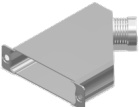
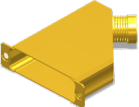
Detail A-A Sizes E, A B, C and D



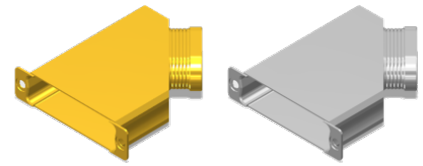
Detail A-A Size F



DESCRIPTION & PART NUMBERS

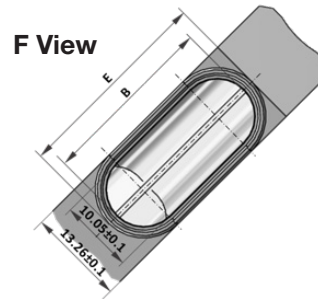
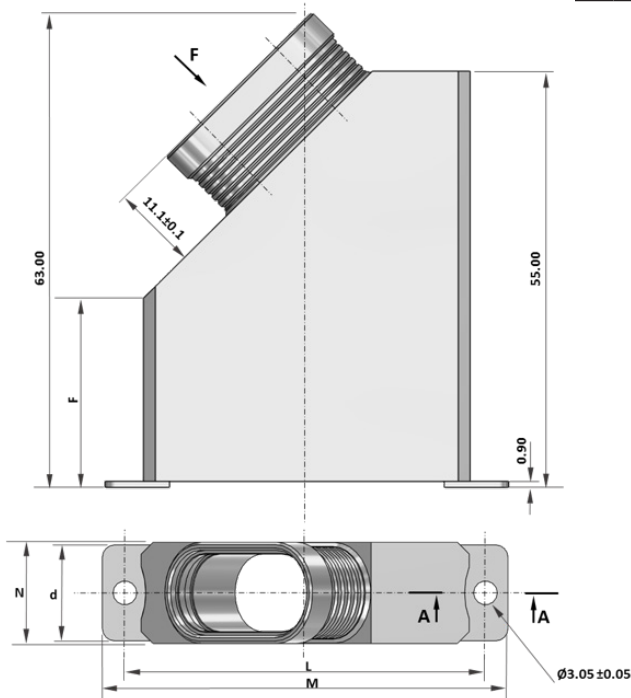
SHELL FINISH	SHELL SIZE	ESA/ESCC DESCRIPTION	C&K PART NUMBER
 Electroless Nickel	E	DE-BCKS-HAL-04-NMB-A174-FR022	C115366-2950B
	A	DA-BCKS-HAL-04-NMB-A174-FR022	C115366-2951B
	B	DB-BCKS-HAL-04-NMB-A174-FR022	C115366-2952B
	C	DC-BCKS-HAL-04-NMB-A174-FR022	C115366-2953B
	D	DD-BCKS-HAL-04-NMB-A174-FR022	C115366-2954B
	F	DF-BCKS-HAL-04-NMB-A174-FR022	C115366-2955B
 Gold	E	DE-BCKS-HAL-04-NMB-FR172-FR022	C115366-2950A
	A	DA-BCKS-HAL-04-NMB-FR172-FR022	C115366-2951A
	B	DB-BCKS-HAL-04-NMB-FR172-FR022	C115366-2952A
	C	DC-BCKS-HAL-04-NMB-FR172-FR022	C115366-2953A
	D	DD-BCKS-HAL-04-NMB-FR172-FR022	C115366-2954A
	F	DF-BCKS-HAL-04-NMB-FR172-FR022	C115366-2955A

D-Sub Lightweight Backshell
Haloring Compatible
45° Elliptical Outlet

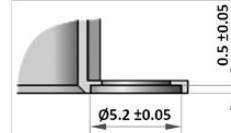


DIMENSIONS & WEIGHT

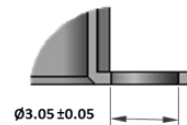
		Value							
		M ±0.38	N ±0.2	d ±0.2	L ±0.13	B ±0.15	E ±0.15	F ±0.2	Weight (grams)
Shell Size	E	30.56	13.26	12.55	24.99	16.60	19.81	40	13.6
	A	38.89	13.26	12.55	33.32	24.10	27.31	35	16.6
	B	52.78	13.26	12.55	47.04	24.10	27.31	25	19.9
	C	69.04	13.26	12.55	63.50	24.10	27.31	20	25.4
	D	66.67	15.36	15.35	61.11	34.10	37.31	20	26.7
	F	69.32	18.06	17.35	63.50	37.60	40.81	20	28.7



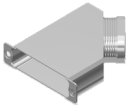
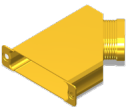
Detail A-A Sizes E, A B, C and D



Detail A-A Size F

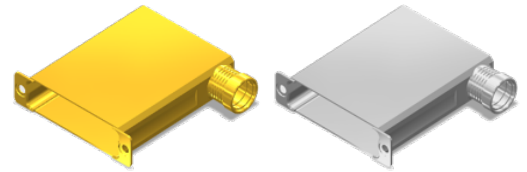


DESCRIPTION & PART NUMBERS

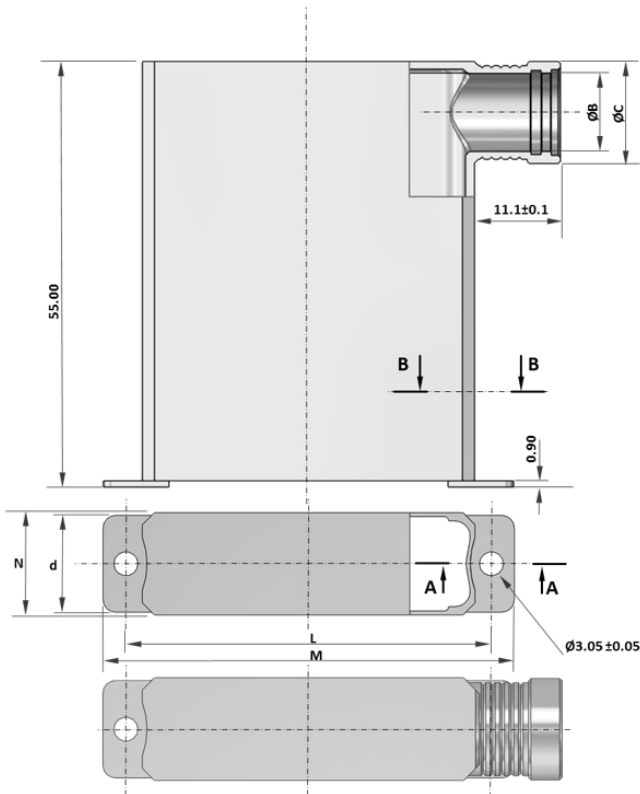
SHELL FINISH	SHELL SIZE	ESA/ESCC DESCRIPTION	C&K PART NUMBER
 Electroless Nickel	E	DE-BCKS-HAL-05-NMB-A174-FR022	C115366-2956B
	A	DA-BCKS-HAL-05-NMB-A174-FR022	C115366-2957B
	B	DB-BCKS-HAL-05-NMB-A174-FR022	C115366-2958B
	C	DC-BCKS-HAL-05-NMB-A174-FR022	C115366-2959B
	D	DD-BCKS-HAL-05-NMB-A174-FR022	C115366-2960B
	F	DF-BCKS-HAL-05-NMB-A174-FR022	C115366-2961B
 Gold	E	DE-BCKS-HAL-05-NMB-FR172-FR022	C115366-2956A
	A	DA-BCKS-HAL-05-NMB-FR172-FR022	C115366-2957A
	B	DB-BCKS-HAL-05-NMB-FR172-FR022	C115366-2958A
	C	DC-BCKS-HAL-05-NMB-FR172-FR022	C115366-2959A
	D	DD-BCKS-HAL-05-NMB-FR172-FR022	C115366-2960A
	F	DF-BCKS-HAL-05-NMB-FR172-FR022	C115366-2961A

Dimensions shown in: mm
 Specifications and dimensions subject to change

D-Sub Lightweight Backshell
Haloring Compatible
90° Cylindrical Outlet

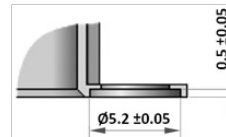


DIMENSIONS & WEIGHT

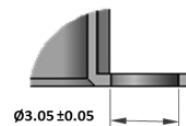


		Value						
		M ±0.38	N ±0.2	d ±0.2	L ±0.13	ØB ±0.1	ØC ±0.1	Weight (grams)
Shell Size	E	30.56	13.26	12.55	24.99	10.05	13.26	14.7
	A	38.89	13.26	12.55	33.32	10.05	13.26	18.1
	B	52.78	13.26	12.55	47.04	10.05	13.26	23.6
	C	69.04	13.26	12.55	63.50	10.05	13.26	30.5
	D	66.67	15.36	15.35	61.11	12.85	15.36	31.7
	F	69.32	18.06	17.35	63.50	14.85	18.06	33.8

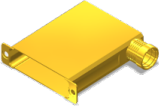
Detail A-A Sizes E, A B, C and D



Detail A-A Size F



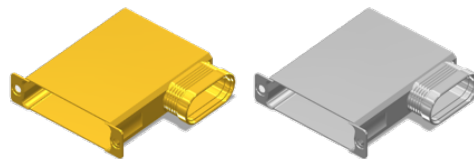
DESCRIPTION & PART NUMBERS

SHELL FINISH	SHELL SIZE	ESA/ESCC DESCRIPTION	C&K PART NUMBER
 Electroless Nickel	E	DE-BCKS-HAL-06-NMB-A174-FR022	C115366-2962B
	A	DA-BCKS-HAL-06-NMB-A174-FR022	C115366-2963B
	B	DB-BCKS-HAL-06-NMB-A174-FR022	C115366-2964B
	C	DC-BCKS-HAL-06-NMB-A174-FR022	C115366-2965B
	D	DD-BCKS-HAL-06-NMB-A174-FR022	C115366-2966B
	F	DF-BCKS-HAL-06-NMB-A174-FR022	C115366-2967B
 Gold	E	DE-BCKS-HAL-06-NMB-FR172-FR022	C115366-2962A
	A	DA-BCKS-HAL-06-NMB-FR172-FR022	C115366-2963A
	B	DB-BCKS-HAL-06-NMB-FR172-FR022	C115366-2964A
	C	DC-BCKS-HAL-06-NMB-FR172-FR022	C115366-2965A
	D	DD-BCKS-HAL-06-NMB-FR172-FR022	C115366-2966A
	F	DF-BCKS-HAL-06-NMB-FR172-FR022	C115366-2967A

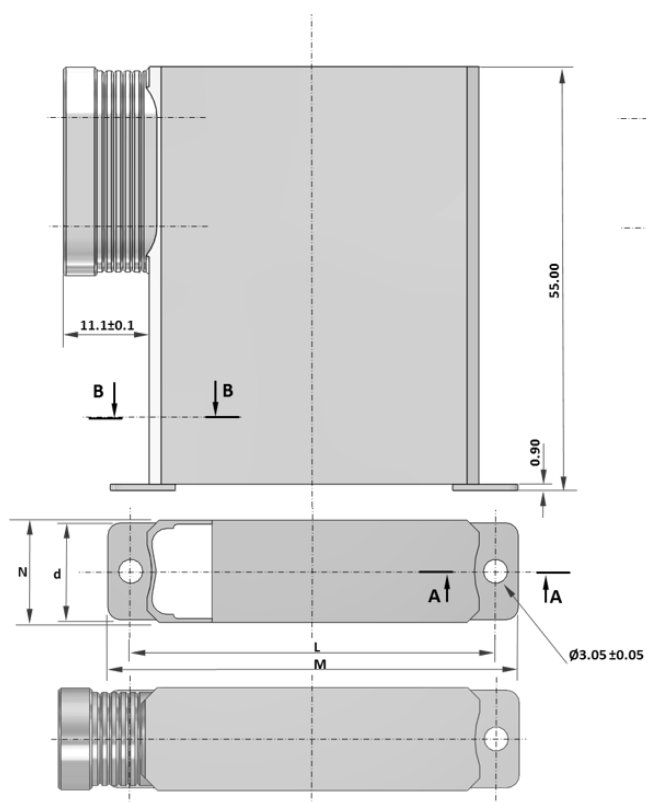


Dimensions shown in: mm
 Specifications and dimensions subject to change

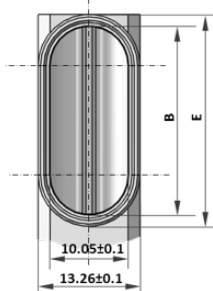
D-Sub Lightweight Backshell
Haloring Compatible
90° Elliptical Outlet



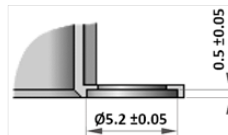
DIMENSIONS & WEIGHT



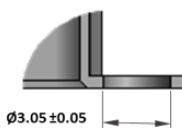
		Value						
		M ±0.38	N ±0.2	d ±0.2	L ±0.13	B ±0.15	E ±0.15	Weight (grams)
Shell Size	E	30.56	13.26	12.55	24.99	16.60	19.81	13.6
	A	38.89	13.26	12.55	33.32	24.10	27.31	16.6
	B	52.78	13.26	12.55	47.04	24.10	27.31	19.9
	C	69.04	13.26	12.55	63.50	24.10	27.31	25.4
	D	66.67	15.36	15.35	61.11	34.10	37.31	26.7
	F	69.32	18.06	17.35	63.50	37.60	40.81	28.7



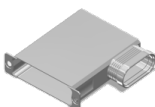
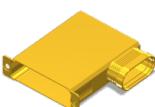
Detail A-A Sizes E, A B, C and D



Detail A-A Size F

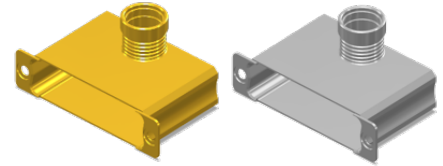


DESCRIPTION & PART NUMBERS

SHELL FINISH	SHELL SIZE	ESA/ESCC DESCRIPTION	C&K PART NUMBER
 Electroless Nickel	E	DE-BCKS-HAL-07-NMB-A174-FR022	C115366-2968B
	A	DA-BCKS-HAL-07-NMB-A174-FR022	C115366-2969B
	B	DB-BCKS-HAL-07-NMB-A174-FR022	C115366-2970B
	C	DC-BCKS-HAL-07-NMB-A174-FR022	C115366-2971B
	D	DD-BCKS-HAL-07-NMB-A174-FR022	C115366-2972B
	F	DF-BCKS-HAL-07-NMB-A174-FR022	C115366-2973B
 Gold	E	DE-BCKS-HAL-07-NMB-FR172-FR022	C115366-2968A
	A	DA-BCKS-HAL-07-NMB-FR172-FR022	C115366-2969A
	B	DB-BCKS-HAL-07-NMB-FR172-FR022	C115366-2970A
	C	DC-BCKS-HAL-07-NMB-FR172-FR022	C115366-2971A
	D	DD-BCKS-HAL-07-NMB-FR172-FR022	C115366-2972A
	F	DF-BCKS-HAL-07-NMB-FR172-FR022	C115366-2973A

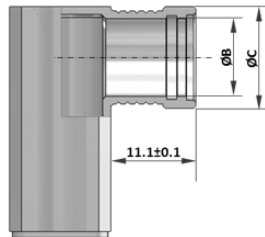
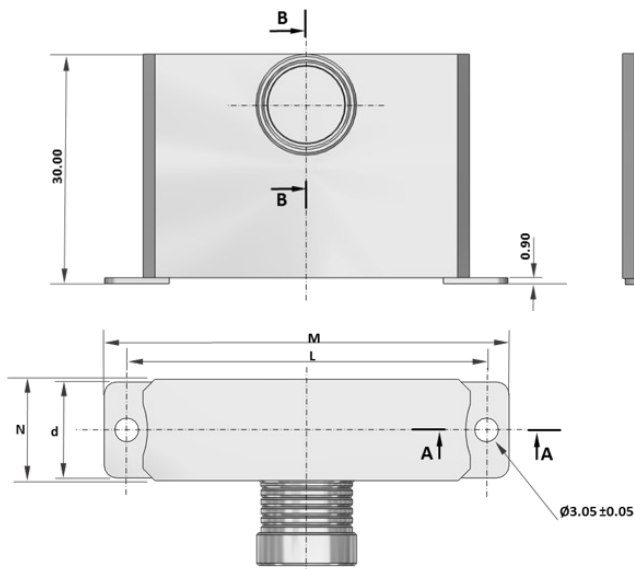
Dimensions shown in: mm
 Specifications and dimensions subject to change

D-Sub Lightweight Backshell
Haloring Compatible
90° Top Circular Outlet

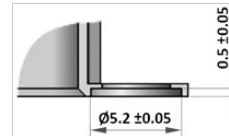


DIMENSIONS & WEIGHT

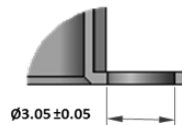
		Value						
		M ±0.38	N ±0.2	d ±0.2	L ±0.13	ØB ±0.1	ØC ±0.1	Weight (grams)
Shell Size	E	30.56	13.26	12.55	24.99	10.05	13.26	8.2
	A	38.89	13.26	12.55	33.32	10.05	13.26	10
	B	52.78	13.26	12.55	47.04	10.05	13.26	12.9
	C	69.04	13.26	12.55	63.50	10.05	13.26	16.6
	D	66.67	15.36	15.35	61.11	12.85	15.36	17.6
	F	69.32	18.06	17.35	63.50	14.85	18.06	18.9



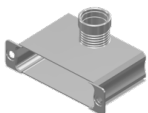
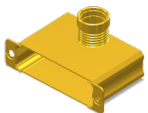
Detail A-A Sizes E, A B, C and D



Detail A-A Size F



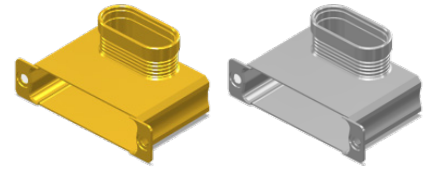
DESCRIPTION & PART NUMBERS

SHELL FINISH	SHELL SIZE	ESA/ESCC DESCRIPTION	C&K PART NUMBER
 Electroless Nickel	E	DE-BCKS-HAL-08-NMB-A174-FR022	C115366-2974B
	A	DA-BCKS-HAL-08-NMB-A174-FR022	C115366-2975B
	B	DB-BCKS-HAL-08-NMB-A174-FR022	C115366-2976B
	C	DC-BCKS-HAL-08-NMB-A174-FR022	C115366-2977B
	D	DD-BCKS-HAL-08-NMB-A174-FR022	C115366-2978B
	F	DF-BCKS-HAL-08-NMB-A174-FR022	C115366-2979B
 Gold	E	DE-BCKS-HAL-08-NMB-FR172-FR022	C115366-2974A
	A	DA-BCKS-HAL-08-NMB-FR172-FR022	C115366-2975A
	B	DB-BCKS-HAL-08-NMB-FR172-FR022	C115366-2976A
	C	DC-BCKS-HAL-08-NMB-FR172-FR022	C115366-2977A
	D	DD-BCKS-HAL-08-NMB-FR172-FR022	C115366-2978A
	F	DF-BCKS-HAL-08-NMB-FR172-FR022	C115366-2979A



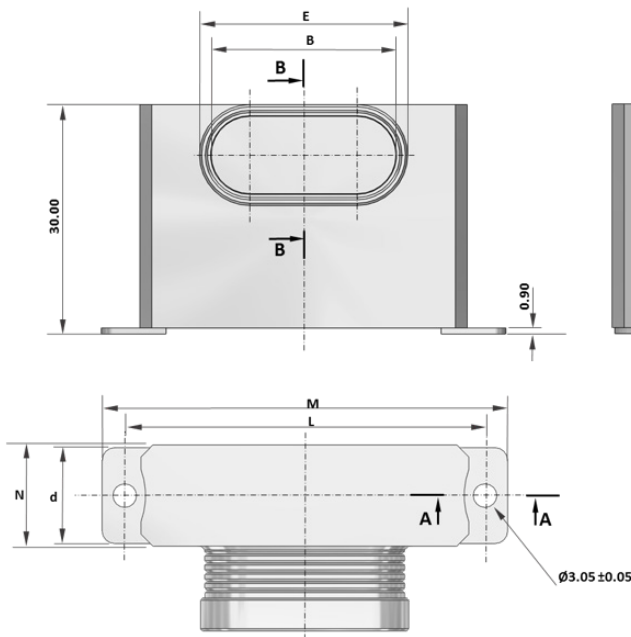
Dimensions shown in: mm
 Specifications and dimensions subject to change

D-Sub Lightweight Backshell
Haloring Compatible
90° Top Elliptical Outlet

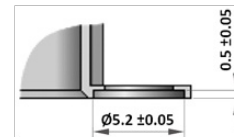


DIMENSIONS & WEIGHT

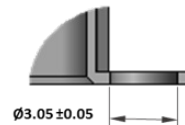
		Value						
		M ±0.38	N ±0.2	d ±0.2	L ±0.13	B ±0.15	E ±0.15	Weight (grams)
Shell Size	E	30.56	13.26	12.55	24.99	11.85	15.06	8.3
	A	38.89	13.26	12.55	33.32	16.60	19.81	10.3
	B	52.78	13.26	12.55	47.04	24.10	27.31	13.6
	C	69.04	13.26	12.55	63.50	24.10	27.31	17.3
	D	66.67	15.36	15.35	61.11	34.10	37.31	18.6
	F	69.32	18.06	17.35	63.50	34.10	37.31	20



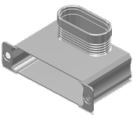
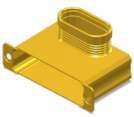
Detail A-A Sizes E, A B, C and D



Detail A-A Size F

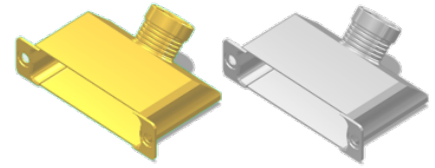


DESCRIPTION & PART NUMBERS

SHELL FINISH	SHELL SIZE	ESA/ESCC DESCRIPTION	C&K PART NUMBER
 Electroless Nickel	E	DE-BCKS-HAL-09-NMB-A174-FR022	C115366-2980B
	A	DA-BCKS-HAL-09-NMB-A174-FR022	C115366-2981B
	B	DB-BCKS-HAL-09-NMB-A174-FR022	C115366-2982B
	C	DC-BCKS-HAL-09-NMB-A174-FR022	C115366-2983B
	D	DD-BCKS-HAL-09-NMB-A174-FR022	C115366-2984B
	F	DF-BCKS-HAL-09-NMB-A174-FR022	C115366-2985B
 Gold	E	DE-BCKS-HAL-09-NMB-FR172-FR022	C115366-2980A
	A	DA-BCKS-HAL-09-NMB-FR172-FR022	C115366-2981A
	B	DB-BCKS-HAL-09-NMB-FR172-FR022	C115366-2982A
	C	DC-BCKS-HAL-09-NMB-FR172-FR022	C115366-2983A
	D	DD-BCKS-HAL-09-NMB-FR172-FR022	C115366-2984A
	F	DF-BCKS-HAL-09-NMB-FR172-FR022	C115366-2985A

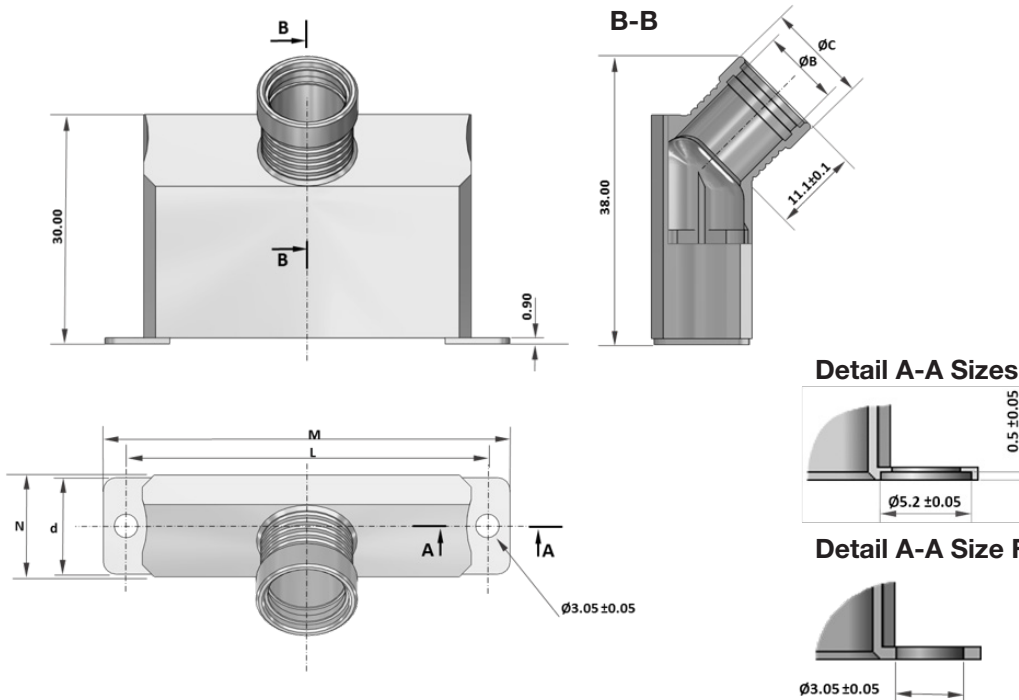
Dimensions shown in: mm
 Specifications and dimensions subject to change

D-Sub Lightweight Backshell
Haloring Compatible
45° Top Circular Outlet



DIMENSIONS & WEIGHT

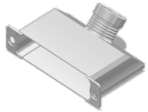
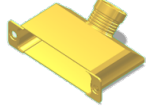
		Value						
		M ±0.38	N ±0.2	d ±0.2	L ±0.13	ØB ±0.1	ØC ±0.1	Weight (grams)
Shell Size	E	30.56	13.26	12.55	24.99	10.05	13.26	8
	A	38.89	13.26	12.55	33.32	10.05	13.26	9.9
	B	52.78	13.26	12.55	47.04	10.05	13.26	12.9
	C	69.04	13.26	12.55	63.50	10.05	13.26	16.8
	D	66.67	15.36	15.35	61.11	12.85	15.36	16.2
	F	69.32	18.06	17.35	63.50	14.85	18.06	17.6



Detail A-A Sizes E, A B, C and D

Detail A-A Size F

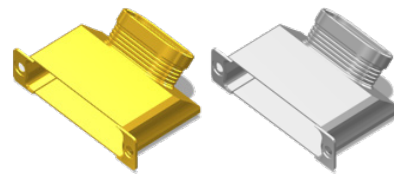
DESCRIPTION & PART NUMBERS

SHELL FINISH	SHELL SIZE	ESA/ESCC DESCRIPTION	C&K PART NUMBER
 Electroless Nickel	E	DE-BCKS-HAL-10-NMB-A174-FR022	C115366-2986B
	A	DA-BCKS-HAL-10-NMB-A174-FR022	C115366-2987B
	B	DB-BCKS-HAL-10-NMB-A174-FR022	C115366-2988B
	C	DC-BCKS-HAL-10-NMB-A174-FR022	C115366-2989B
	D	DD-BCKS-HAL-10-NMB-A174-FR022	C115366-2990B
	F	DF-BCKS-HAL-10-NMB-A174-FR022	C115366-2991B
 Gold	E	DE-BCKS-HAL-10-NMB-FR172-FR022	C115366-2986A
	A	DA-BCKS-HAL-10-NMB-FR172-FR022	C115366-2987A
	B	DB-BCKS-HAL-10-NMB-FR172-FR022	C115366-2988A
	C	DC-BCKS-HAL-10-NMB-FR172-FR022	C115366-2989A
	D	DD-BCKS-HAL-10-NMB-FR172-FR022	C115366-2990A
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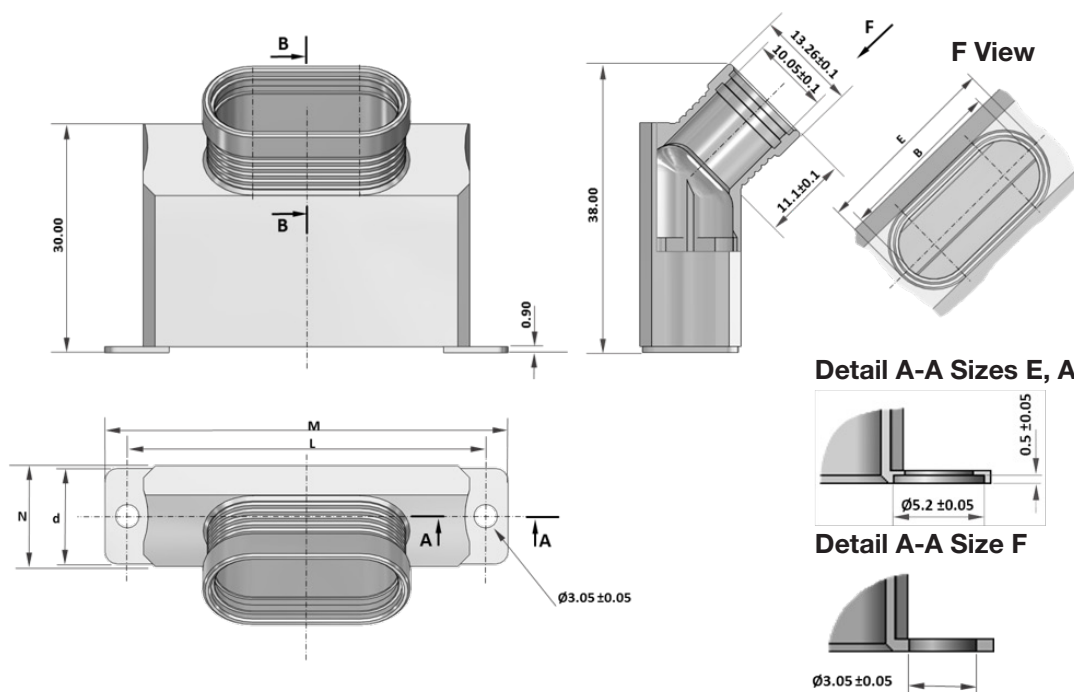
Dimensions shown in: mm
 Specifications and dimensions subject to change

D-Sub Lightweight Backshell
Haloring Compatible
45° Top Elliptical Outlet

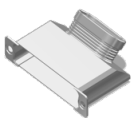
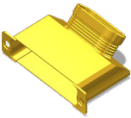


DIMENSIONS & WEIGHT

		Value						
		M ±0.38	N ±0.2	d ±0.2	L ±0.13	B ±0.15	E ±0.15	Weight (grams)
Shell Size	E	30.56	13.26	12.55	24.99	11.85	15.06	8.1
	A	38.89	13.26	12.55	33.32	16.60	19.81	10.2
	B	52.78	13.26	12.55	47.04	24.10	27.31	13.6
	C	69.04	13.26	12.55	63.50	24.10	27.31	17.4
	D	66.67	15.36	15.35	61.11	34.10	37.31	17.8
	F	69.32	18.06	17.35	63.50	34.10	37.31	18.7

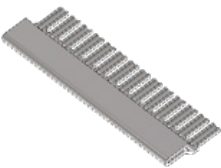


DESCRIPTION & PART NUMBERS

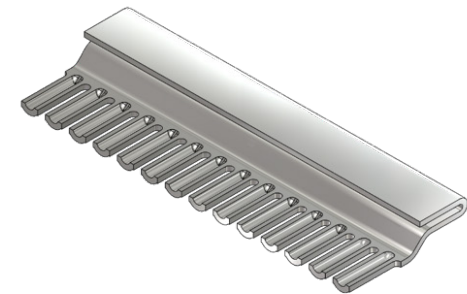
SHELL FINISH	SHELL SIZE	ESA/ESCC DESCRIPTION	C&K PART NUMBER
 Electroless Nickel	E	DE-BCKS-HAL-11-NMB-A174-FR022	C115366-2992B
	A	DA-BCKS-HAL-11-NMB-A174-FR022	C115366-2993B
	B	DB-BCKS-HAL-11-NMB-A174-FR022	C115366-2994B
	C	DC-BCKS-HAL-11-NMB-A174-FR022	C115366-2995B
	D	DD-BCKS-HAL-11-NMB-A174-FR022	C115366-2996B
	F	DF-BCKS-HAL-11-NMB-A174-FR022	C115366-2997B
 Gold	E	DE-BCKS-HAL-11-NMB-FR172-FR022	C115366-2992A
	A	DA-BCKS-HAL-11-NMB-FR172-FR022	C115366-2993A
	B	DB-BCKS-HAL-11-NMB-FR172-FR022	C115366-2994A
	C	DC-BCKS-HAL-11-NMB-FR172-FR022	C115366-2995A
	D	DD-BCKS-HAL-11-NMB-FR172-FR022	C115366-2996A
	F	DF-BCKS-HAL-11-NMB-FR172-FR022	C115366-2997A

Dimensions shown in: mm
 Specifications and dimensions subject to change

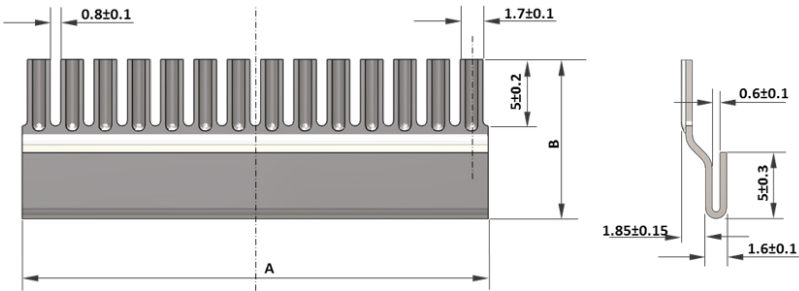
D-Sub Haloring Compatible 45° Top Elliptical Outlet



DIMENSIONS & WEIGHT

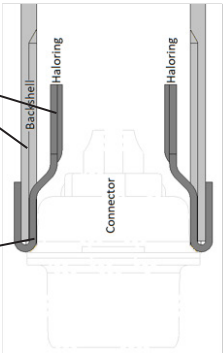


		A ±0.2	B ±0.3	Number of Tines	Weight (grams)
Shell Size	E	15.00	12.00	6	1.3
	A	22.50	12.00	9	1.9
	B	35.00	12.00	14	2.9
	C & D	47.50	12.00	19	4
	F	52.50	15.00	21	5.2



The internal shape of the backshell and the profile of the haloring have been specifically studied in order to overcome the space constraints and ensure ease of use during wiring of the shielded wires

Haloring is held between the connector and the backshell

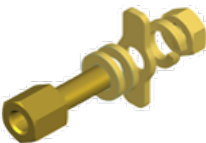


Note: All our Backshells haloring compatible are designed to be used with 1 or 2 halorings on the 2 large sides.

DESCRIPTION & PART NUMBERS

	SHELL SIZE	ESA/ESCC DESCRIPTION	C&K PART NUMBER
	E	HALORING-DE-01-FR022	C115366-2927B
	A	HALORING-DA-01-FR022	C115366-2928B
	B	HALORING-DB-01-FR022	C115366-2929B
	C & D	HALORING-DC-DD-01-FR022	C115366-2930B
	F	HALORING-DF-01-FR022	C115366-2931B

ACCESSORIES

Universal Male Screwlock - Slotted Head	ESA/ESCC DESCRIPTION	C&K PART NUMBER
	D115440-0165-FR022	C115440-0165A
Universal Male Screwlock - Hexagonal Hole Head	ESA/ESCC DESCRIPTION	C&K PART NUMBER
	D115440-0167-FR022	C115440-0167A
Specific Female Screwlock for use with Backshell	ESA/ESCC DESCRIPTION	C&K PART NUMBER
	D115440-0201-FR022	C115440-0201

HDS FR022 D-Sub Lightweight Backshell - June 2020

Dimensions shown in: mm
Specifications and dimensions subject to change

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[C&K Aerospace:](#)

[DD-BCKS-03-NMB-FR172-FR022](#) [HALORINGDA01FR022](#) [HALORINGDB01FR022](#) [HALORINGDCDD01FR022](#)
[HALORINGDE01FR022](#) [HALORINGDF01FR022](#) [DA-BCKS-01-NMB-A174-FR022](#) [DA-BCKS-01-NMB-FR172-FR022](#)
[DA-BCKS-02-NMB-A174-FR022](#) [DA-BCKS-02-NMB-FR172-FR022](#) [DA-BCKS-03-NMB-A174-FR022](#) [DA-BCKS-03-NMB-FR172-FR022](#)
[DA-BCKS-04-NMB-A174-FR022](#) [DA-BCKS-04-NMB-FR172-FR022](#) [DA-BCKS-05-NMB-A174-FR022](#) [DA-BCKS-05-NMB-FR172-FR022](#)
[DA-BCKS-06-NMB-A174-FR022](#) [DA-BCKS-06-NMB-FR172-FR022](#) [DA-BCKS-07-NMB-A174-FR022](#) [DA-BCKS-07-NMB-FR172-FR022](#)
[DA-BCKS-08-NMB-A174-FR022](#) [DA-BCKS-08-NMB-FR172-FR022](#) [DA-BCKS-09-NMB-A174-FR022](#) [DA-BCKS-09-NMB-FR172-FR022](#)
[DA-BCKS-10-NMB-A174-FR022](#) [DA-BCKS-10-NMB-FR172-FR022](#) [DA-BCKS-11-NMB-A174-FR022](#) [DA-BCKS-11-NMB-FR172-FR022](#)
[DB-BCKS-01-NMB-A174-FR022](#) [DB-BCKS-01-NMB-FR172-FR022](#) [DB-BCKS-02-NMB-A174-FR022](#) [DB-BCKS-02-NMB-FR172-FR022](#)
[DB-BCKS-03-NMB-A174-FR022](#) [DB-BCKS-03-NMB-FR172-FR022](#) [DB-BCKS-04-NMB-A174-FR022](#) [DB-BCKS-04-NMB-FR172-FR022](#)
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[DC-BCKS-02-NMB-A174-FR022](#) [DC-BCKS-02-NMB-FR172-FR022](#) [DC-BCKS-03-NMB-A174-FR022](#) [DC-BCKS-03-NMB-FR172-FR022](#)
[DC-BCKS-04-NMB-A174-FR022](#) [DC-BCKS-04-NMB-FR172-FR022](#) [DC-BCKS-05-NMB-A174-FR022](#) [DC-BCKS-05-NMB-FR172-FR022](#)
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[NMB-FR172-FR022](#) [DE-BCKS-03-NMB-A174-FR022](#) [DE-BCKS-03-NMB-FR172-FR022](#) [DE-BCKS-04-NMB-A174-](#)
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