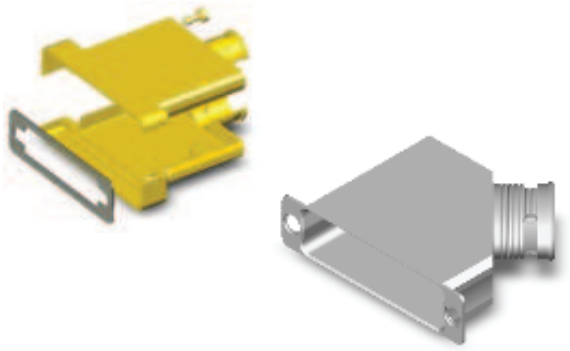
D-SUB SERIES

Lightweight backshells
3401/072

Features and Benefits

- ***Compliant with ESA specifications 3401/072***
- ***Ultra-light weight***
- ***Solid fully machined aluminium alloy material***
- ***Non magnetic***
- ***EMI Application***



Typical Applications

- ***Space equipment***
- ***Satellites harnesses***

Specification

- High performance D-SUB Lightweight Backshell ESA qualified, for space applications.
- Compliant with ESCC 3401/072 Lightweight Backshells specification for rectangular connectors 3401/001 and ESCC 3401/002.
- Suitable for use in Space, and high performance military/aerospace applications: Board to Cable or Cable to Cable applications.
- Sizes available: E, A, B, C, D and F.
- Outlets:
  - 90° circular (right and left) - Pages 2 & 3
  - Top circular - Page 4
  - Top elliptical - Page 5
  - 90° elliptical (right and left) - Pages 6 & 7
  - Top Saddle Clamp - Page 8
  - Closed - Extra Shorting Can - Page9
  - Closed - Shorting Can - Page 10
  - Top circular (Rear Mounting) EMI Application - Pages 11 & 12
  - Top circular (Front Mounting) EMI Application - Pages 13 & 14

Characteristics

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

Quality Level

- ESA / ESCC: code 3401 (Flying model)
- Qualification reviewed every 2 years.

Options

- Male screwlock with clip (be ordered separately).

Packaging

- Individual packaging.
- Traceability associated as per ESA/ESCC specifications.

MATERIALS AND FINISHES

COMPONENT	MATERIAL	FINISH
Shell	Aluminium Alloy 6061-T6	**Code A174**: 25.4 µm min. electroless Nickel **No code**: 0.7 µm min. Gold over 25.4 µm min. electroless Nickel
Screws	Brass	0.7 µm Gold over 1 µm min. Cu
Gasket	Silicone conducive elastomer	None

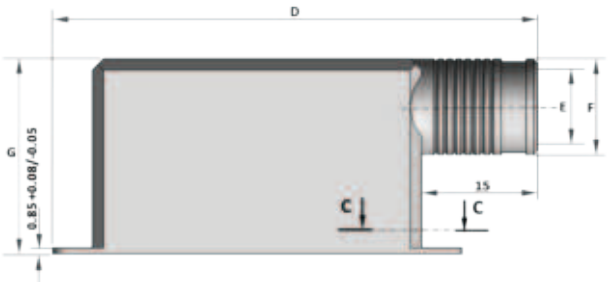
90° CIRCULAR ENTRY
RIGHT OUTLET

(Our design accepts right or left mounting)

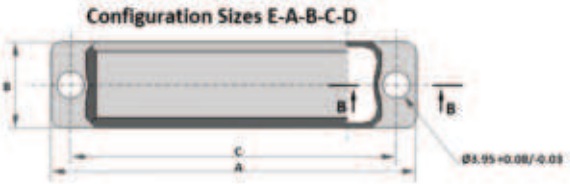


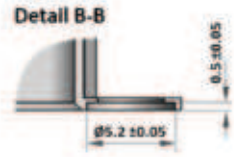


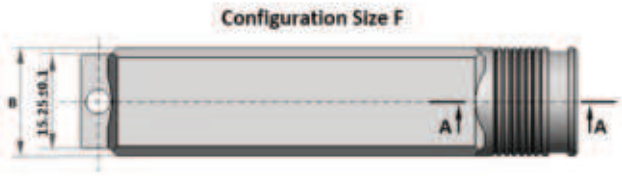
DIMENSIONS AND WEIGHT



SIZE	A ±0.2	B ±0.15	C ±0.13	D ±0.5	ØE ±0.15	ØF ±0.15	G ±0.5	WEIGHT (GRAMS)
E	30.68	12.50	24.99	40.6	7.00	9.00	25.4	7
A	39.01	12.50	33.32	49.0	10.00	12.00	25.4	10
B	52.91	12.50	47.04	62.7	10.50	12.50	25.4	13.5
C	69.19	12.50	63.50	79.2	10.50	12.50	25.4	18
D	66.80	15.30	61.11	76.7	13.30	15.30	25.4	23
F	69.30	17.30	63.50	79.9	15.30	17.30	35.4	28









DESCRIPTION AND PART NUMBERS

SHELL FINISH	SIZE	ESA/ESCC DESCRIPTION	C&K P/N
 Electroless Nickel	E	340107225B NMBA-A174	C115366-2606D
	A	340107226B NMBA-A174	C115366-2607D
	B	340107227B NMBA-A174	C115366-2608D
	C	340107228B NMBA-A174	C115366-2609D
	D	340107229B NMBA-A174	C115366-2610D
	F	340107276B NMB-A174	C115366-2691D
 Gold	E	340107225B NMBA	C115366-2606C
	A	340107226B NMBA	C115366-2607C
	B	340107227B NMBA	C115366-2608C
	C	340107228B NMBA	C115366-2609C
	D	340107229B NMBA	C115366-2610C
	F	340107276B NMB	C115366-2691C

Dimensions shown in: mm
Specifications and dimensions subject to change

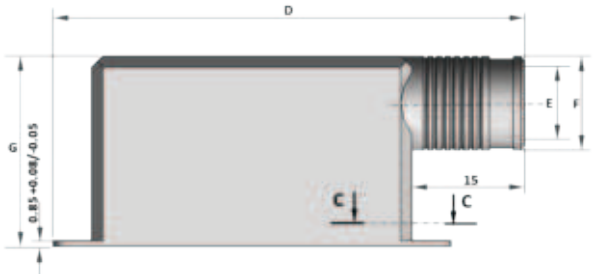
90° CIRCULAR ENTRY
LEFT OUTLET

(Our design accepts right or left mounting)

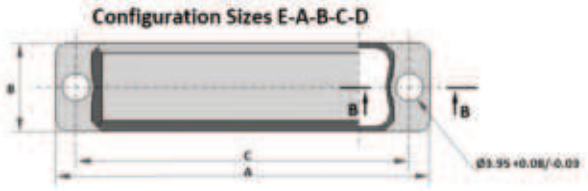


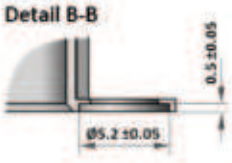


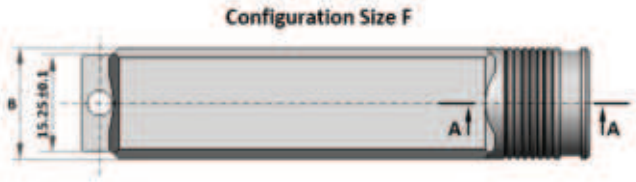
DIMENSIONS AND WEIGHT

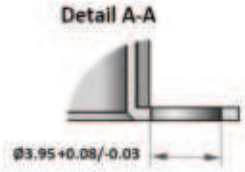


SIZE	A ±0.2	B ±0.15	C ±0.13	D ±0.5	ØE ±0.15	ØF ±0.15	G ±0.5	WEIGHT (GRAMS)
E	30.68	12.50	24.99	40.6	7.00	9.00	25.4	6.5
A	39.01	12.50	33.32	49.0	10.00	12.00	25.4	10
B	52.91	12.50	47.04	62.7	10.50	12.50	25.4	13.5
C	69.19	12.50	63.50	79.2	10.50	12.50	25.4	18
D	66.80	15.30	61.11	76.7	13.30	15.30	25.4	23
F	69.30	17.30	63.50	79.9	15.30	17.30	35.4	28







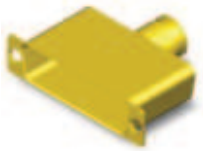


DESCRIPTION AND PART NUMBERS

SHELL FINISH	SIZE	ESA/ESCC DESCRIPTION	C&K P/N
 Electroless Nickel	E	340107230B NMBA-A174	C115366-2611D
	A	340107231B NMBA-A174	C115366-2612D
	B	340107232B NMBA-A174	C115366-2613D
	C	340107233B NMBA-A174	C115366-2614D
	D	340107234B NMBA-A174	C115366-2615D
	F	340107276B NMB-A174	C115366-2691D
 Gold	E	340107230B NMBA	C115366-2611C
	A	340107231B NMBA	C115366-2612C
	B	340107232B NMBA	C115366-2613C
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	D	340107234B NMBA	C115366-2615C
	F	340107276B NMB	C115366-2691C

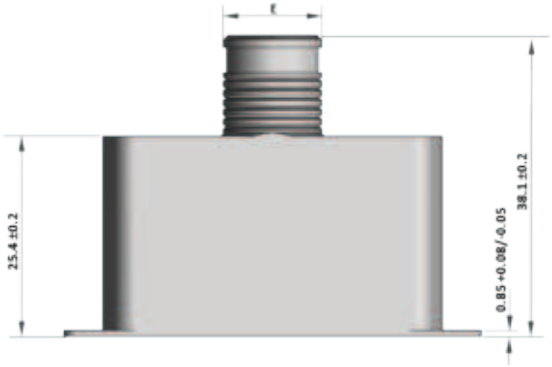
Dimensions shown in: mm
Specifications and dimensions subject to change

TOP CIRCULAR ENTRY



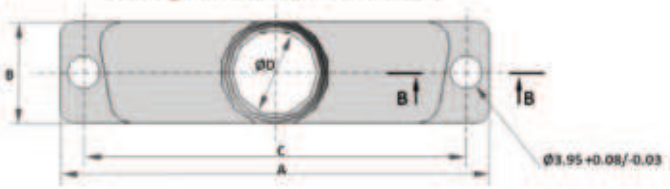


DIMENSIONS AND WEIGHT



SIZE	A ±0.2	B ±0.15	C ±0.13	D ±0.2	ØE ±0.15	WEIGHT (GRAMS)
E	30.68	12.50	24.99	7.00	9.00	6.5
A	39.01	12.50	33.32	10.00	12.00	8.5
B	52.91	12.50	47.04	10.50	12.50	11.5
C	69.19	12.50	63.50	10.50	12.50	13.5
D	66.80	15.30	61.11	13.30	15.30	14.5
F	69.30	17.30	63.50	15.30	17.30	16.5

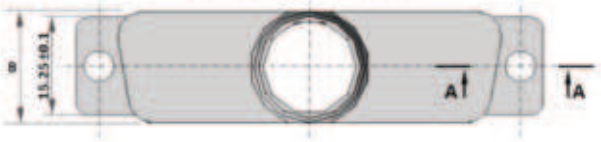
Configuration Sizes E-A-B-C-D



Detail B-B



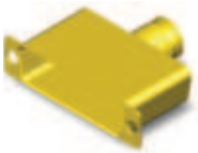
Configuration Size F



Detail A-A

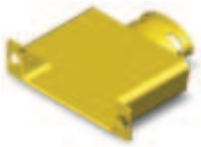


DESCRIPTION AND PART NUMBERS

SHELL FINISH	SIZE	ESA/ESCC DESCRIPTION	C&K P/N
 Electroless Nickel	E	340107235B NMBA-A174	C115366-2616D
	A	340107236B NMBA-A174	C115366-2617D
	B	340107237B NMBA-A174	C115366-2618D
	C	340107238B NMBA-A174	C115366-2619D
	D	340107239B NMBA-A174	C115366-2620D
	F	340107277B NMB-A174	C115366-2692D
 Gold	E	340107235B NMBA	C115366-2616C
	A	340107236B NMBA	C115366-2617C
	B	340107237B NMBA	C115366-2618C
	C	340107238B NMBA	C115366-2619C
	D	340107239B NMBA	C115366-2620C
	F	340107277B NMB	C115366-2692C

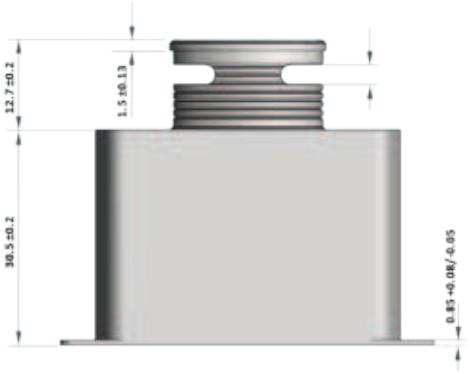
Dimensions shown in: mm
Specifications and dimensions subject to change

TOP ELLIPTICAL ENTRY



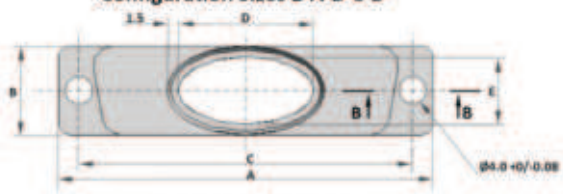


DIMENSIONS AND WEIGHT



SIZE	A ±0.2	B ±0.15	C ±0.13	D ±0.38	E ±0.15	WEIGHT (GRAMS)
E	30.68	12.50	24.99	12.70	9.50	8
A	39.01	12.50	33.32	15.87	9.50	13
B	52.91	12.50	47.04	19.05	9.50	18
C	69.19	12.50	63.50	25.40	9.50	23
D	66.80	15.30	61.11	22.22	12.30	28
F	69.30	17.30	63.50	32.00	14.30	33

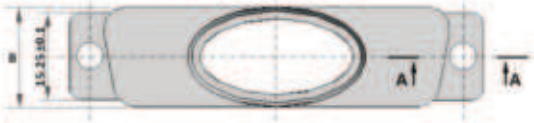
Configuration Sizes E-A-B-C-D



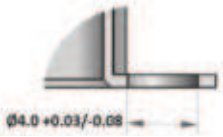
Detail B-B



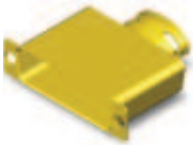
Configuration Size F



Detail A-A



DESCRIPTION AND PART NUMBERS

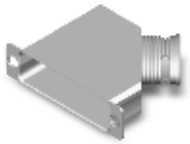
SHELL FINISH	SIZE	ESA/ESCC DESCRIPTION	C&K P/N
 Electroless Nickel	E	340107246B NMBA-A174	C115366-2622D
	A	340107247B NMBA-A174	C115366-2623D
	B	340107248B NMBA-A174	C115366-2624D
	C	340107249B NMBA-A174	C115366-2625D
	D	340107250B NMBA-A174	C115366-2626D
	F	340107278B NMB-A174	C115366-2693D
 Gold	E	340107246B NMBA	C115366-2622C
	A	340107247B NMBA	C115366-2623C
	B	340107248B NMBA	C115366-2624C
	C	340107249B NMBA	C115366-2625C
	D	340107250B NMBA	C115366-2626C
	F	340107278B NMB	C115366-2693C

Dimensions shown in: mm
Specifications and dimensions subject to change

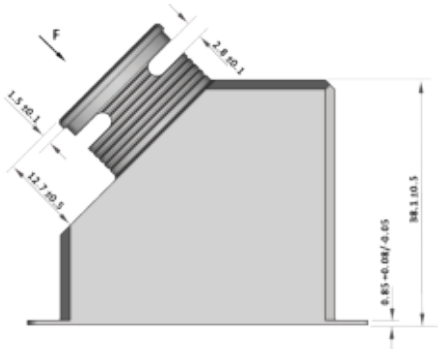
45° ELLIPTICAL ENTRY
RIGHT OUTLET

(Our design accepts right or left mounting)

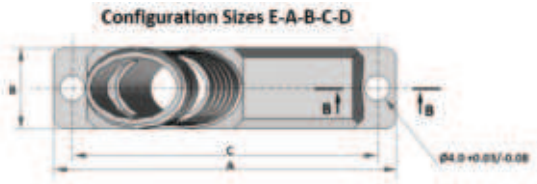


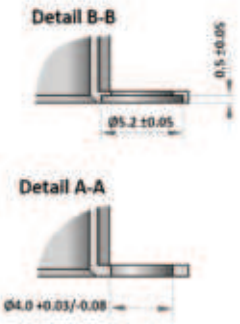


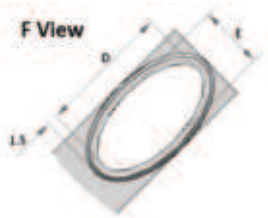
DIMENSIONS AND WEIGHT



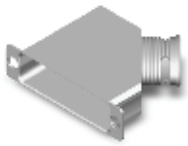
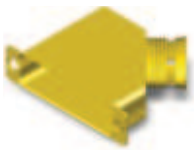
SIZE	A ±0.2	B ±0.15	C ±0.13	D ±0.38	ØE ±0.15	WEIGHT (GRAMS)
E	30.68	12.50	24.99	12.70	9.50	10
A	39.01	12.50	33.32	15.87	9.50	14
B	52.91	12.50	47.04	19.05	9.50	20
C	69.19	12.50	63.50	25.40	9.50	26
D	66.80	15.30	61.11	22.22	12.30	33
F	69.30	17.30	63.50	29.00	14.30	40







DESCRIPTION AND PART NUMBERS

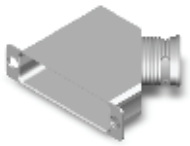
SHELL FINISH	SIZE	ESA/ESCC DESCRIPTION	C&K P/N
 Electroless Nickel	E	340107251B NMBA-A174	C115366-2627D
	A	340107252B NMBA-A174	C115366-2628D
	B	340107253B NMBA-A174	C115366-2629D
	C	340107254B NMBA-A174	C115366-2630D
	D	340107255B NMBA-A174	C115366-2631D
	F	340107279B NMB-A174	C115366-2694D
 Gold	E	340107251B NMBA	C115366-2627C
	A	340107252B NMBA	C115366-2628C
	B	340107253B NMBA	C115366-2629C
	C	340107254B NMBA	C115366-2630C
	D	340107255B NMBA	C115366-2631C
	F	340107279B NMB	C115366-2694C

Dimensions shown in: mm
Specifications and dimensions subject to change

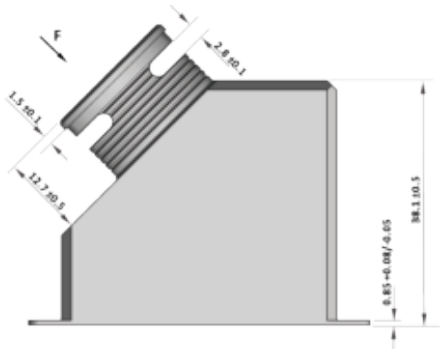
45° ELLIPTICAL ENTRY
LEFT OUTLET

(Our design accepts right or left mounting)

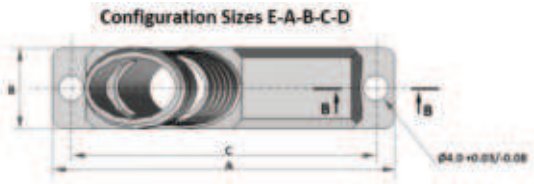




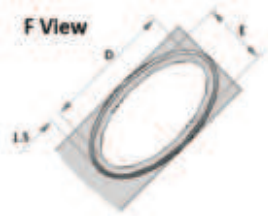
DIMENSIONS AND WEIGHT



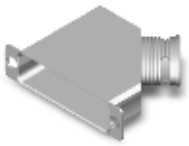
SIZE	A ±0.2	B ±0.15	C ±0.13	D ±0.38	ØE ±0.15	WEIGHT (GRAMS)
E	30.68	12.50	24.99	12.70	9.50	10
A	39.01	12.50	33.32	15.87	9.50	14
B	52.91	12.50	47.04	19.05	9.50	20
C	69.19	12.50	63.50	25.40	9.50	26
D	66.80	15.30	61.11	22.22	12.30	33
F	69.30	17.30	63.50	29.00	14.30	40





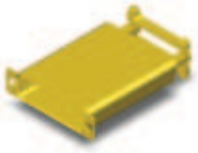


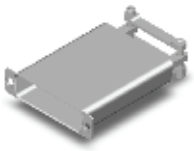
DESCRIPTION AND PART NUMBERS

SHELL FINISH	SIZE	ESA/ESCC DESCRIPTION	C&K P/N
 Electroless Nickel	E	340107256B NMBA-A174	C115366-2632D
	A	340107257B NMBA-A174	C115366-2633D
	B	340107258B NMBA-A174	C115366-2634D
	C	340107259B NMBA-A174	C115366-2635D
	D	340107260B NMBA-A174	C115366-2636D
	F	340107279B NMB-A174	C115366-2694D
 Gold	E	340107256B NMBA	C115366-2632C
	A	340107257B NMBA	C115366-2633C
	B	340107258B NMBA	C115366-2634C
	C	340107259B NMBA	C115366-2635C
	D	340107260B NMBA	C115366-2636C
	F	340107279B NMB	C115366-2694C

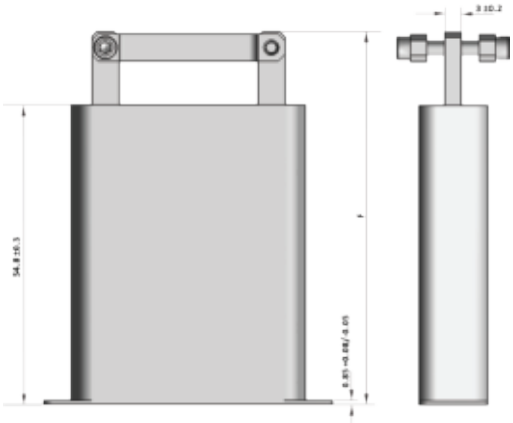
Dimensions shown in: mm
Specifications and dimensions subject to change

SADDLE CLAMP TOP ENTRY



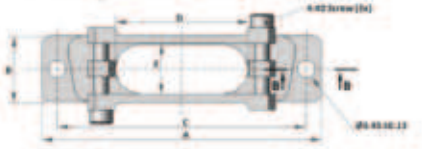


DIMENSIONS AND WEIGHT



SIZE	A ±0.2	B ±0.15	C ±0.13	D ±0.3	E ±0.25	F ±0.50	WEIGHT (GRAMS)
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

Configuration Sizes E-A-B-C-D



Detail B-B



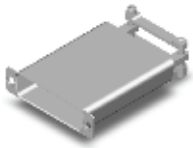
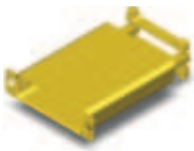
Configuration Size F



Detail A-A



DESCRIPTION AND PART NUMBERS

SHELL FINISH	SIZE	ESA/ESCC DESCRIPTION	C&K P/N
 Electroless Nickel	E	340107205B NMBA-A174	C115366-2586D
	A	340107206B NMBA-A174	C115366-2587D
	B	340107207B NMBA-A174	C115366-2588D
	C	340107208B NMBA-A174	C115366-2589D
	D	340107209B NMBA-A174	C115366-2590D
	F	340107272B NMB-A174	C115366-2687D
 Gold	E	340107205B NMBA	C115366-2586C
	A	340107206B NMBA	C115366-2587C
	B	340107207B NMBA	C115366-2588C
	C	340107208B NMBA	C115366-2589C
	D	340107209B NMBA	C115366-2590C
	F	340107272B NMB	C115366-2687C

Dimensions shown in: mm
Specifications and dimensions subject to change

CLOSED - EXTRA SHORTING CAN



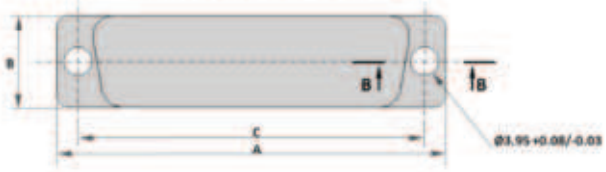


DIMENSIONS AND WEIGHT

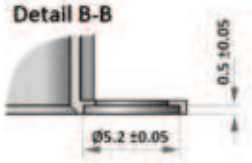
SIZE	A ±0.2	B ±0.15	C ±0.13	WEIGHT (GRAMS)
E	30.68	12.50	24.99	8
A	39.01	12.50	33.32	10
B	52.91	12.50	47.04	14
C	69.19	12.50	63.50	20
D	66.80	15.30	61.11	26
F	69.30	17.30	63.50	30



Configuration Sizes E-A-B-C-D



Detail B-B



Configuration Size F



Detail A-A

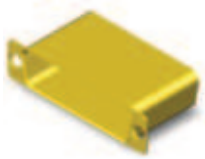


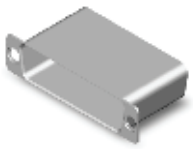
DESCRIPTION AND PART NUMBERS

SHELL FINISH	SIZE	ESA/ESCC DESCRIPTION	C&K P/N
 Electroless Nickel	E	340107261B NMBA-A174	C115366-2637D
	A	340107262B NMBA-A174	C115366-2638D
	B	340107263B NMBA-A174	C115366-2639D
	C	340107264B NMBA-A174	C115366-2640D
	D	340107265B NMBA-A174	C115366-2641D
	F	340107280B NMB-A174	C115366-2695D
 Gold	E	340107261B NMBA	C115366-2637C
	A	340107262B NMBA	C115366-2638C
	B	340107263B NMBA	C115366-2639C
	C	340107264B NMBA	C115366-2640C
	D	340107265B NMBA	C115366-2641C
	F	340107280B NMB	C115366-2695C

Dimensions shown in: mm
Specifications and dimensions subject to change

CLOSED - SHORTING CAN



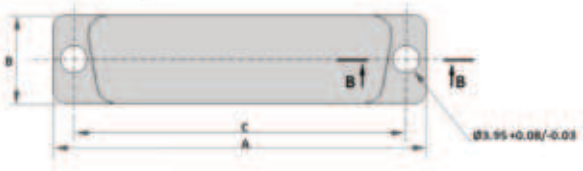


DIMENSIONS AND WEIGHT

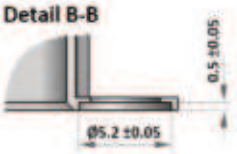


SIZE	A ±0.2	B ±0.15	C ±0.13	WEIGHT (GRAMS)
E	30.68	12.50	24.99	8
A	39.01	12.50	33.32	10
B	52.91	12.50	47.04	14
C	69.19	12.50	63.50	20
D	66.80	15.30	61.11	26
F	69.30	17.30	63.50	30

Configuration Sizes E-A-B-C-D



Detail B-B



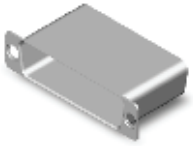
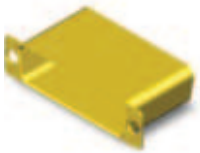
Configuration Size F



Detail A-A

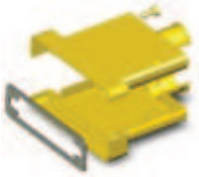


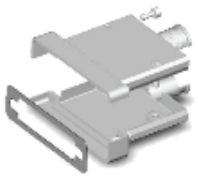
DESCRIPTION AND PART NUMBERS

SHELL FINISH	SIZE	ESA/ESCC DESCRIPTION	C&K P/N
 Electroless Nickel	E	340107210B NMBA-A174	C115366-2591D
	A	340107211B NMBA-A174	C115366-2592D
	B	340107212B NMBA-A174	C115366-2593D
	C	340107213B NMBA-A174	C115366-2594D
	D	340107214B NMBA-A174	C115366-2595D
	F	340107273B NMB-A174	C115366-2688D
 Gold	E	340107210B NMBA	C115366-2591C
	A	340107211B NMBA	C115366-2592C
	B	340107212B NMBA	C115366-2593C
	C	340107213B NMBA	C115366-2594C
	D	340107214B NMBA	C115366-2595C
	F	340107273B NMB	C115366-2688C

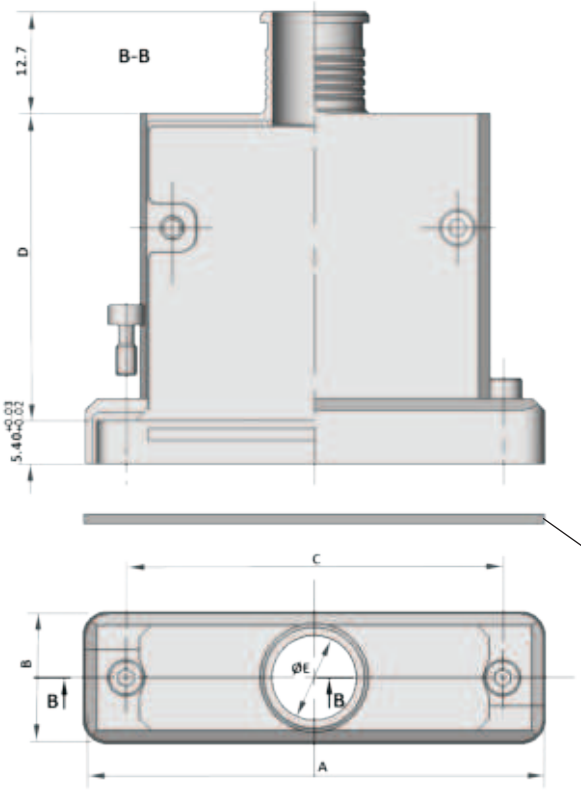
Dimensions shown in: mm
Specifications and dimensions subject to change

TOP CYLINDRICAL ENTRY - EMI APPLICATION
REAR MOUNTING

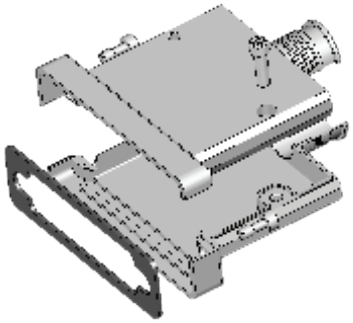




DIMENSIONS AND WEIGHT



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

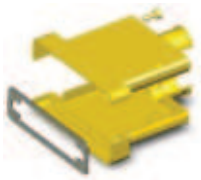
Backshell delivered with:
- 3 EMI gaskets to use according to panel thickness
- 2 Jackscrews 4-40 NC 2A Hexagonal Hole Head
- 2 screwlocks to fix the shells

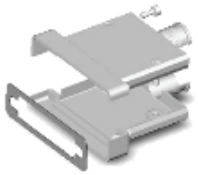
DESCRIPTION AND PART NUMBERS

SHELL FINISH	SIZE	ESA/ESCC DESCRIPTION	C&K P/N
 Electroless Nickel	E	340107220B NMBA-A174	C115366-2601D
	A	340107221B NMBA-A174	C115366-2602D
	B	340107222B NMBA-A174	C115366-2603D
	C	340107223B NMBA-A174	C115366-2604D
	D	340107224B NMBA-A174	C115366-2605D
	F	340107275B NMB-A174	C115366-2690D
 Gold	E	340107220B NMBA	C115366-2601C
	A	340107221B NMBA	C115366-2602C
	B	340107222B NMBA	C115366-2603C
	C	340107223B NMBA	C115366-2604C
	D	340107224B NMBA	C115366-2605C
	F	340107275B NMB	C115366-2690C

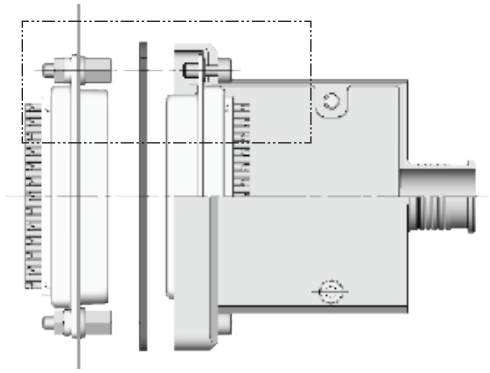
Dimensions shown in: mm
Specifications and dimensions subject to change

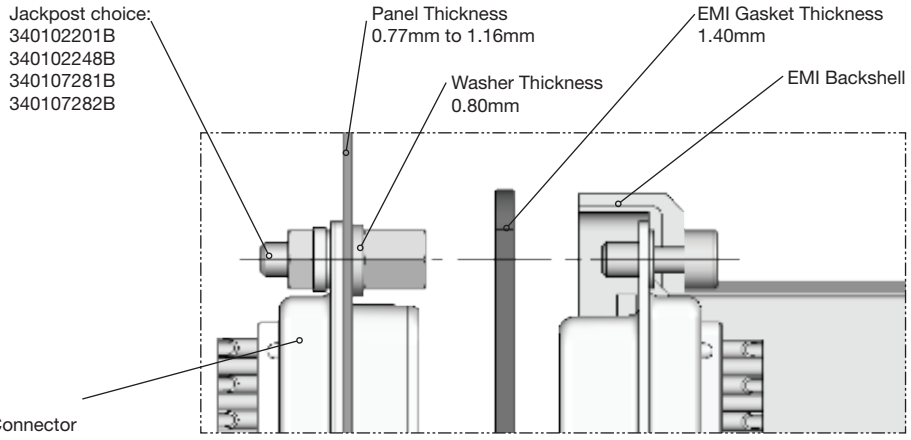
TOP CYLINDRICAL ENTRY - EMI APPLICATION
REAR MOUNTING



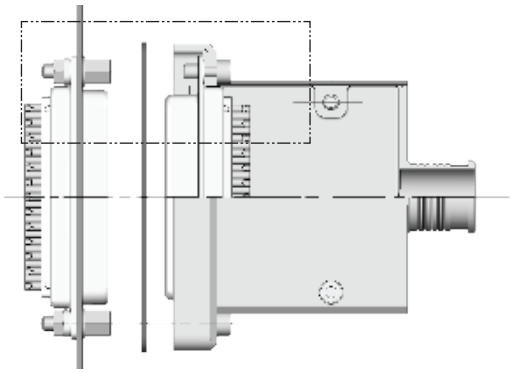


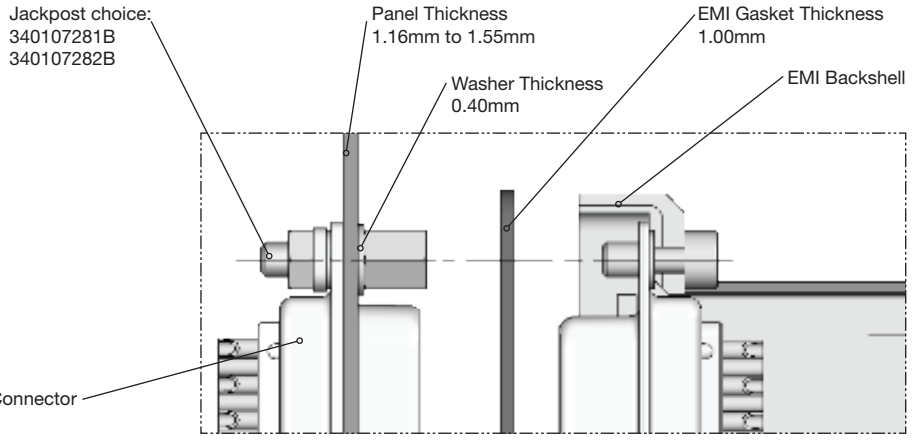
MOUNTING RECOMMENDATION - PANEL THICKNESS WITHIN 0.77MM AND 1.16MM



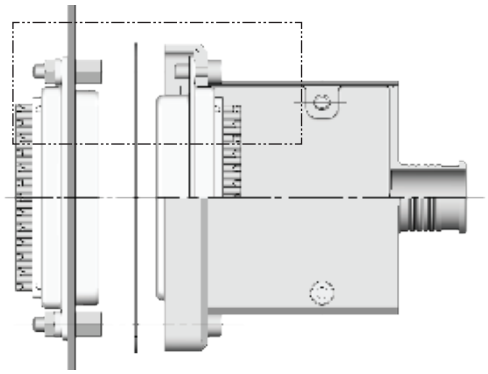


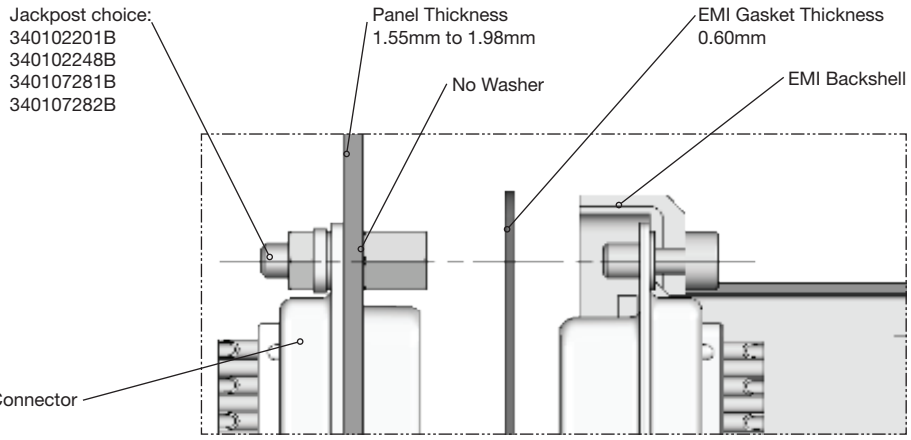
MOUNTING RECOMMENDATION - PANEL THICKNESS WITHIN 1.16MM AND 1.55MM





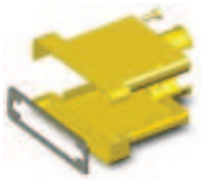
MOUNTING RECOMMANDATION - PANEL THICKNESS WITHIN 1.55MM AND 1.98MM

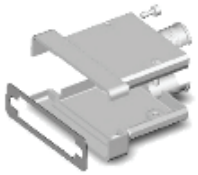




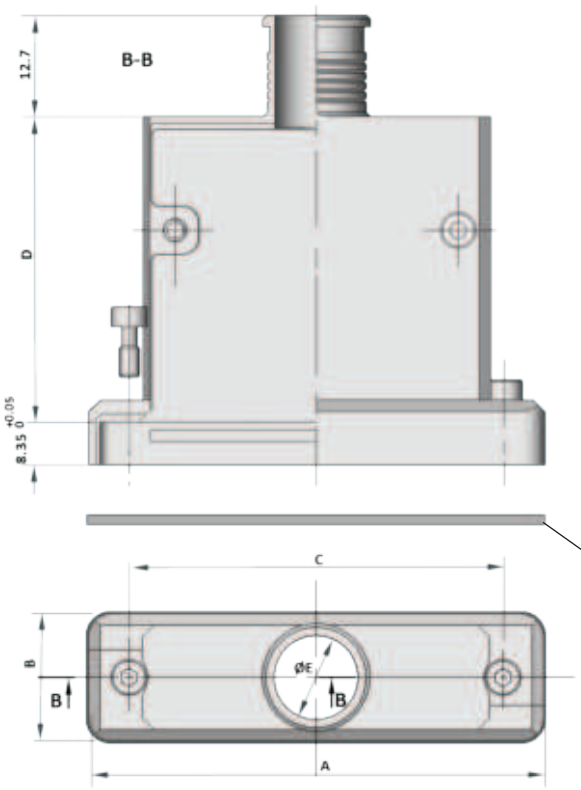
Dimensions shown in: mm
Specifications and dimensions subject to change

TOP CYLINDRICAL ENTRY - EMI APPLICATION
FRONT MOUNTING

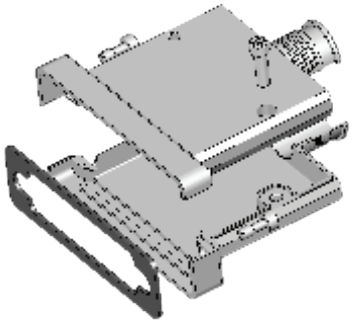




DIMENSIONS AND WEIGHT



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



EMI Gaskets:
0.60±0.1mm thickness

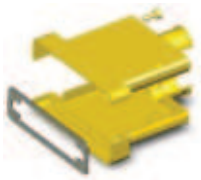
Backshell delivered with:
- 1 EMI gasket
- 2 Jackscrews 4-40 NC 2A Hexagonal Hole Head
- 2 screwlocks to fix the shells

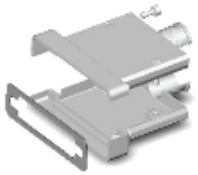
DESCRIPTION AND PART NUMBERS

SHELL FINISH	SIZE	ESA/ESCC DESCRIPTION	C&K P/N
 Electroless Nickel	E	340107215B NMBA-A174	C115366-2596D
	A	340107216B NMBA-A174	C115366-2597D
	B	340107217B NMBA-A174	C115366-2598D
	C	340107218B NMBA-A174	C115366-2599D
	D	340107219B NMBA-A174	C115366-2600D
	F	340107274B NMB-A174	C115366-2689D
 Gold	E	340107215B NMBA	C115366-2596C
	A	340107216B NMBA	C115366-2597C
	B	340107217B NMBA	C115366-2598C
	C	340107218B NMBA	C115366-2599C
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	F	340107274B NMB	C115366-2689C

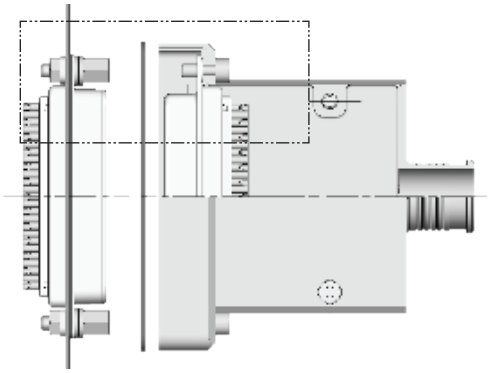
Dimensions shown in: mm
Specifications and dimensions subject to change

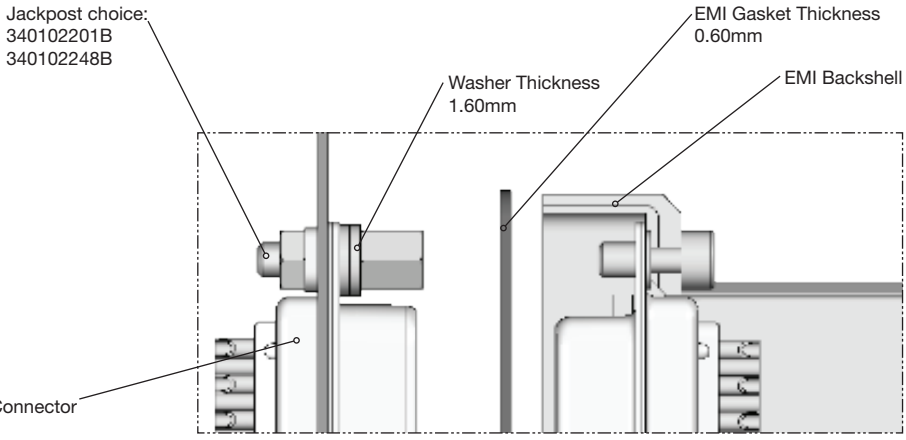
TOP CYLINDRICAL ENTRY - EMI APPLICATION
FRONT MOUNTING





MOUNTING RECOMMENDATION





UNIVERSAL MALE SCREWLOCK - SLOTTED HEAD	ESA/ESCC DESCRIPTION	C&K P/N
	340102287B NMB	C115366-2408C
UNIVERSAL MALE SCREWLOCK - HEXAGONAL HOLE HEAD	**ESA/ESCC DESCRIPTION**	**C&K P/N**
	340102289B NMB	C115366-2410C