
D Subminiature ZD / D*A Connectors



Cannon



ITT Industries

ZD Connectors

Contents

Main characteristics	3
ZD* Solder cup	4
ZD*A High density, solder cup	8
D*A Crimp cable	12
ZD*A F0 High density, crimp cable	16
ZD* SF IDC for ribbon cable	20
ZD* OL2 Straight PCB	22
ZD*A OL2 High density, straight PCB	26
ZD* 1AKN 90° PCB	30
ZED*	32
ZD* 1AKN High density, 90° PCB	34
Accessories	37
Reeled contacts	41
PCB Hole Pattern	42
Mounting Options	46
Panel Cutouts	47
USA Tooling for ZDA / D*A	48
European Tooling for ZDA / D*A	49
Product Safety Information	50

Main characteristics

- ◆ Stamped contacts ZD* series connectors.
- ◆ Closed-entry socket insulator for secure blind mating.
- ◆ Compatible with all other D*Subminiature series.
- ◆ Particularly suitable for industrial applications (control and measurement), and for computer- telecom- or medical equipments.
- ◆ Glass filled thermoplastic Insulator, UL 94V-0 (E112081)
- ◆ Standard arrangement (9, 15, 25, 37, 50 contacts), and high density arrangement (15, 26, 44, 62, 78) are available for both male and female connectors
- ◆ The references mentioned in this catalogue are class 3. See notes for the class 2



Electrical characteristics

Rated current	5 A (Standard density) 2 A (High density) 1 A (IDC)
Dielectric withstanding voltage	1000 VAC for 1 min. (IDC 500 VAC for 1 min.)
Contact resistance	20 mΩ on mated contacts
Operating temperature range	-55° / + 105°C
Insulation resistance Standard / High density	5000 MΩ at 500 VDC (IDC 1000 MΩ at 500 VDC)

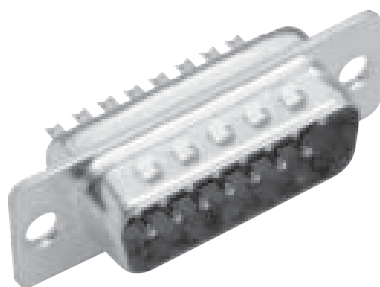
Mechanical characteristics

Insulators	Glass filled thermoplastic, black
Male Contacts	brass, stamped and formed
Female Contacts	Phosphore bronze, stamped and formed
Finish	Gold over nickel in contact area, balance tin
Shells	Steel, plated
Mechanical endurance	Class 3: 50 mating / unmating cycles min. Class 2: 200 mating / unmating cycles min.

For threads M3 please please contact factory.

Plug 9 – 15 – 25 – 37 contacts

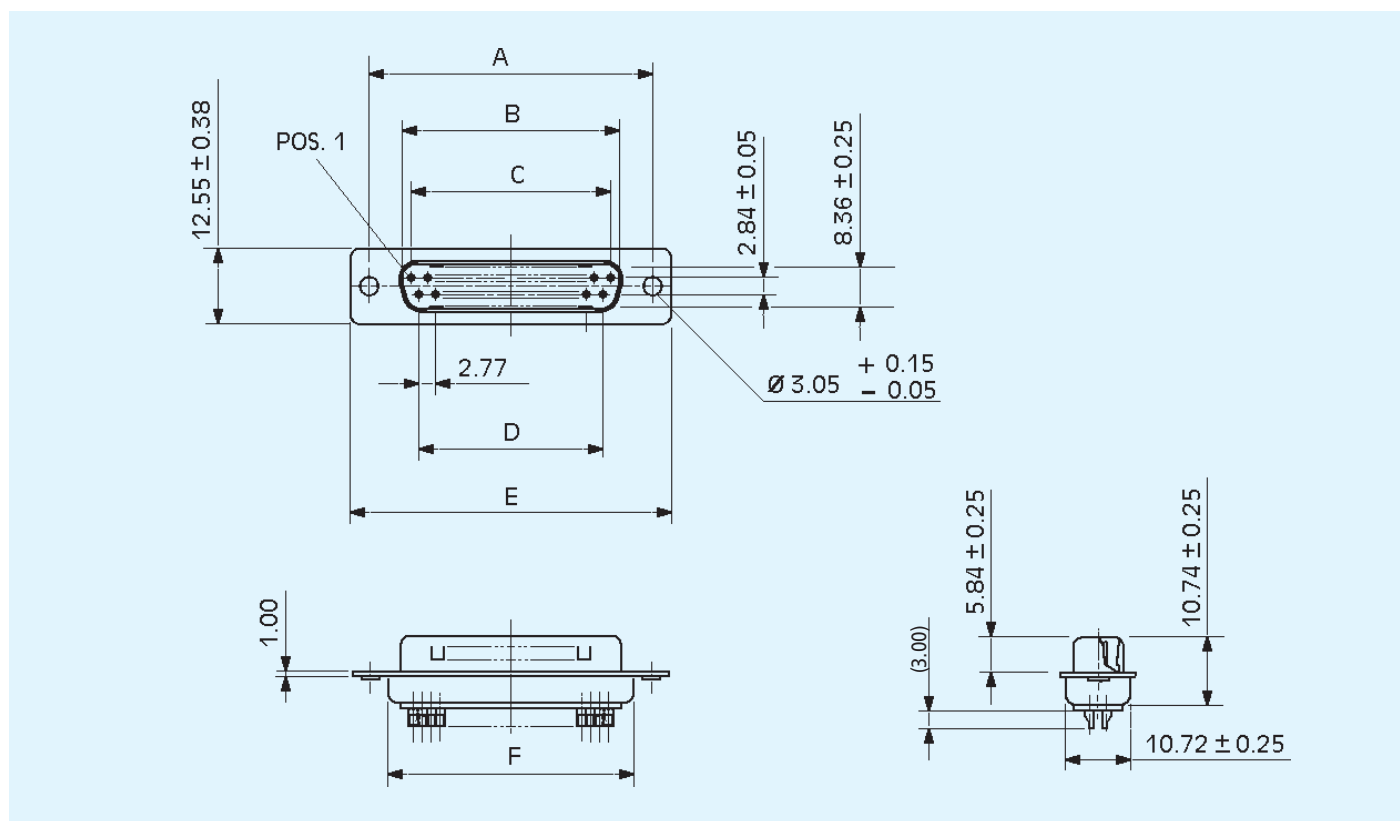
Designation



Shell size / Arrangement	Through hole	Rivnut thread 4-40	Screwlock thread 4-40
E / 9	ZDE9P	ZDEE9P	ZDEE9P-AB
A / 15	ZDA15P	ZDAE15P	ZDAE15P-AB
B / 25	ZDB25P	ZDBE25P	ZDBE25P-AB
C / 37	ZDC37P	ZDCE37P	ZDCE37P-AB

Note: Class 2 - Add suffix A191

Example: ZDE9P-A191



Shell	A $\pm 0,13$	B $\pm 0,25$	C $\pm 0,13$	D $\pm 0,13$	E $\pm 0,38$	F $\pm 0,25$
E	24,99	16,92	11,08	8,31	30,89	19,28
A	33,32	25,25	19,39	16,62	39,10	27,51
B	47,04	38,96	33,24	30,47	53,09	41,30
C	63,50	55,25	49,86	47,09	69,40	57,71

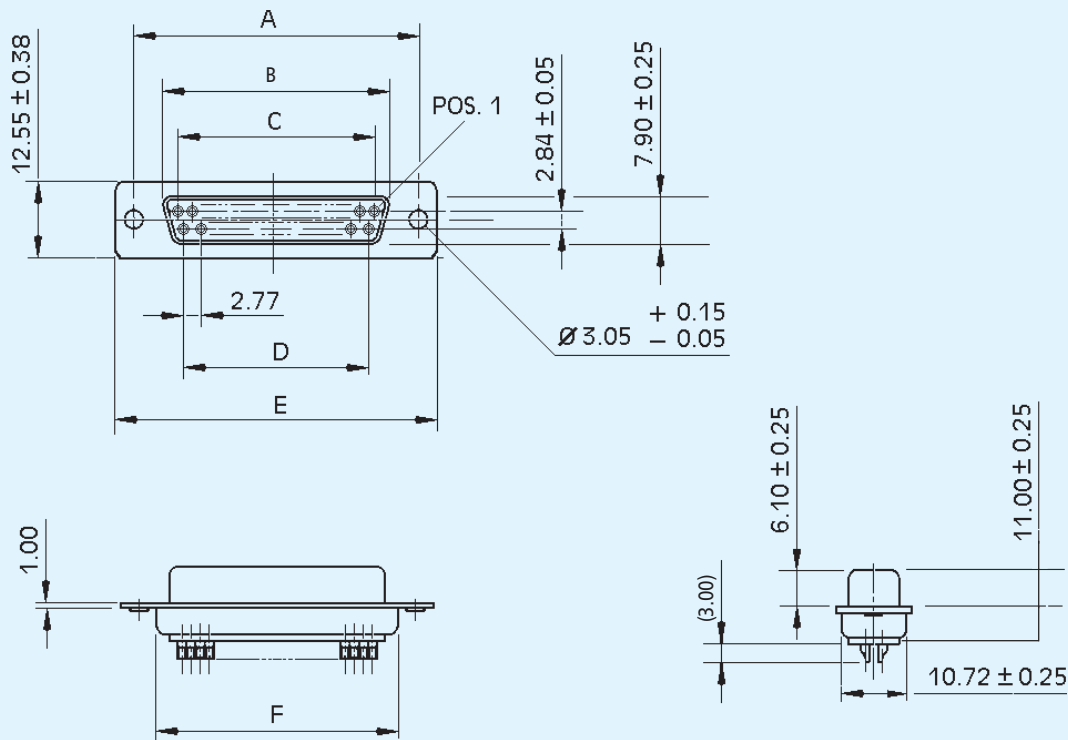
- Mounting options see page 44
- Panel cutouts see page 45
- Accessories see page 35, 36, 37, 38

9 – 15 – 25 – 37 contacts



Designation

Shell size / Arrangement	Through hole	Rivnut thread 4-40	Screwlock thread 4-40
E / 9	ZDE9S	ZDEE9S	ZDEE9S-AB
A / 15	ZDA15S	ZDAE15S	ZDAE15S-AB
B / 25	ZDB25S	ZDBE25S	ZDBE25S-AB
C / 37	ZDC37S	ZDCE37S	ZDCE37S-AB
Note: Class 2 - Add suffix A191		Example: ZDE9S-A191	



Shell	A $\pm$ 0,13	$\pm$ 0,25	C $\pm$ 0,13	D $\pm$ 0,13	E $\pm$ 0,38	F $\pm$ 0,25
E	24,99	16,33	10,96	8,22	30,89	19,28
A	33,32	24,66	19,18	16,44	39,10	27,51
B	47,04	38,38	33,24	30,47	53,09	41,30
C	63,50	54,84	49,86	47,09	69,40	57,71

- Mounting options see page 44
- Panel cutouts see page 45
- Accessories see page 35, 36, 37, 38

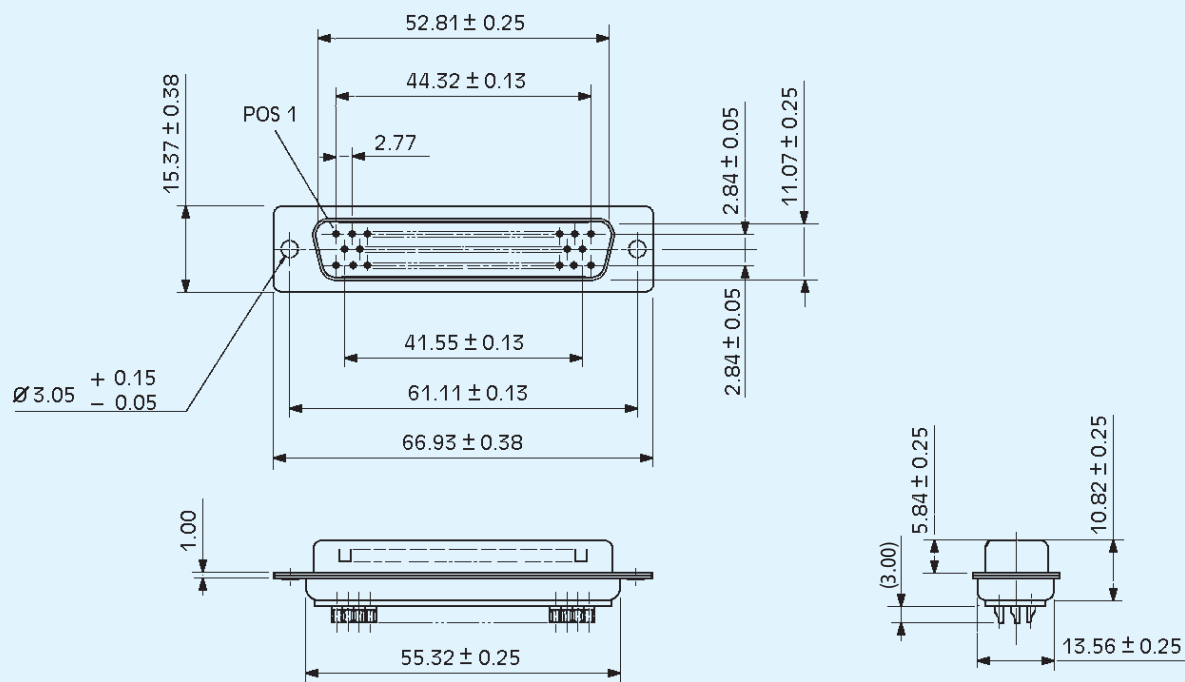
Plug 50 contacts



Designation

Shell size / Arrangement	Through hole	Rivnut thread 4-40	Screwlock thread 4-40
D / 50	ZDD50P	ZDDE50P	ZDDE50P-AB

Note: Class 2 - Add suffix A191 Example: ZDD50P-A191



- Mounting options see page 44
- Panel cutouts see page 45
- Accessories see page 35, 36, 37, 38

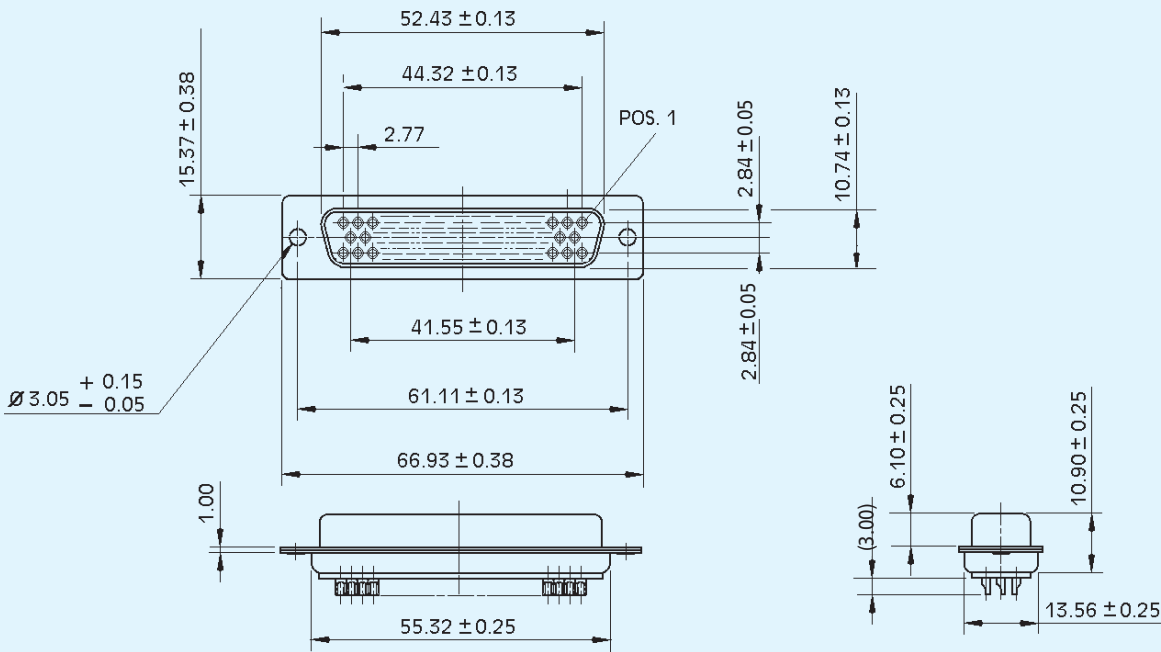
Receptacle 50 contacts

Designation



Shell size / Arrangement	Through hole	Rivnut thread 4-40	Screwlock thread 4-40
D / 50	ZDD50S	ZDDE50S	ZDDE50S-AB

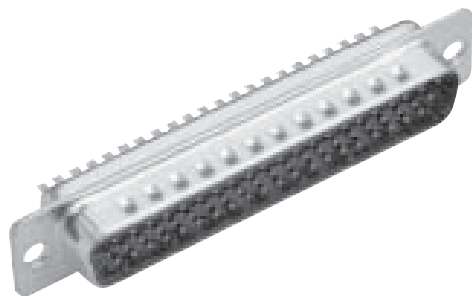
Note: Class 2 - Add suffix A191 Example: ZDD50S-A191



- Mounting options see page 44
- Panel cutouts see page 45
- Accessories see page 35, 36, 37, 38

Plug 15 – 26 – 44 - 62 contacts

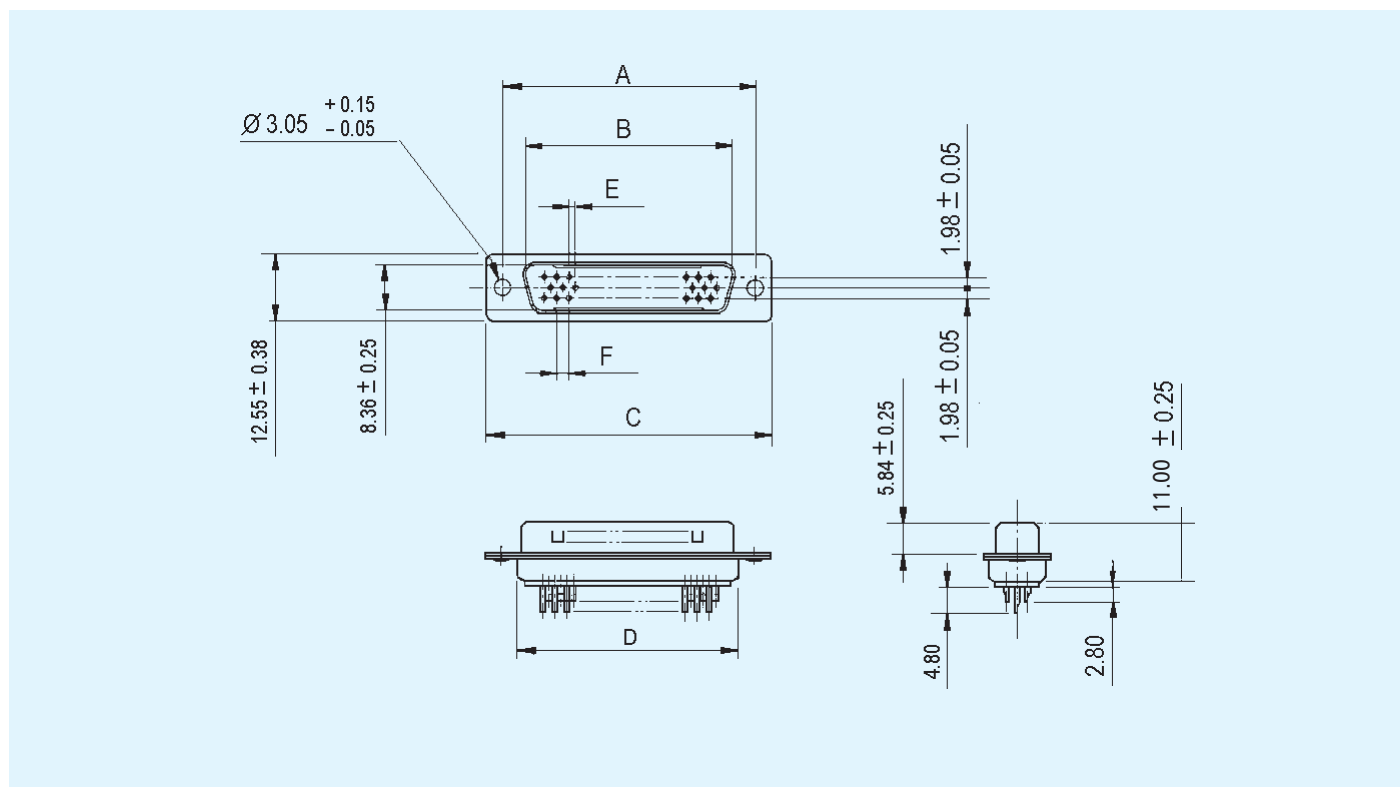
Designation



Shell size / Arrangement	Through hole	Rivnut thread 4-40	Screwlock thread 4-40
E / 15	ZDEA15P	ZDEAE15P	ZDEAE15P-AB
A / 26	ZDAA26P	ZDAAE26P	ZDAAE26P-AB
B / 44	ZDBA44P	ZDBAE44P	ZDBAE44P-AB
C / 62	ZDCA62P	ZDCAE62P	ZDCAE62P-AB

Note: Class 2 - Add suffix A191

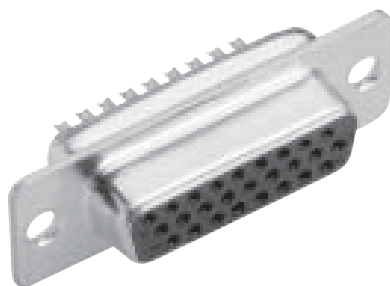
Example: ZDEA15P-A191



Shell	A ± 0,13	B ± 0,25	C ± 0,38	D ± 0,25	E ± 0,05	F ± 0,05
E	24,99	16,92	30,89	19,28	1,145	2,29
A	33,32	25,25	39,10	27,51	1,145	2,29
B	47,04	38,96	53,09	41,30	1,145	2,29
C	63,50	55,25	69,40	57,71	1,205	2,41

- Mounting options see page 44
- Panel cutouts see page 45
- Accessories see page 35, 36, 37, 38

Receptacle 15 – 26 – 44 - 62 contacts

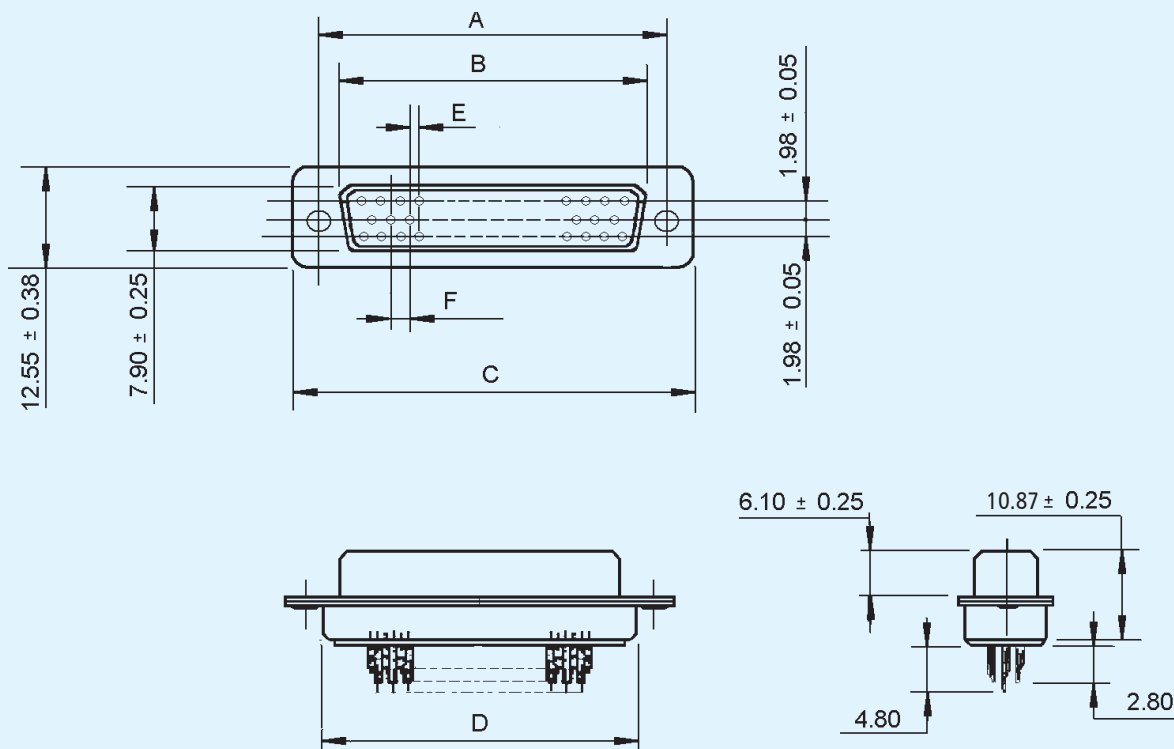


Designation

Shell size / Arrangement	Through hole	Rivnut thread 4-40	Screwlock thread 4-40
E / 15	ZDEA15S	ZDEAE15S	ZDEAE15S-AB
A / 26	ZDAA26S	ZDAAE26S	ZDAAE26S-AB
B / 44	ZDBA44S	ZDBAE44S	ZDBAE44S-AB
C / 62	ZDCA62S	ZDCAE62S	ZDCAE62S-AB

Note: Class 2 - Add suffix A191

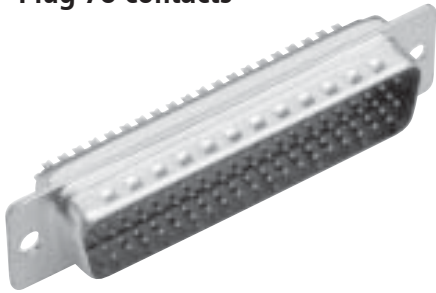
Example: ZDEA15S-A191



Shell	A ± 0,13	B ± 0,25	C ± 0,38	D ± 0,25	E ± 0,05	F ± 0,05
E	24,99	16,33	30,89	19,28	1,145	2,29
A	33,32	24,66	39,10	27,51	1,145	2,29
B	47,04	38,38	53,09	41,30	1,145	2,29
C	63,50	54,84	69,40	57,71	1,145	2,29

- Mounting options see page 44
- Panel cutouts see page 45
- Accessories see page 35, 36, 37, 38

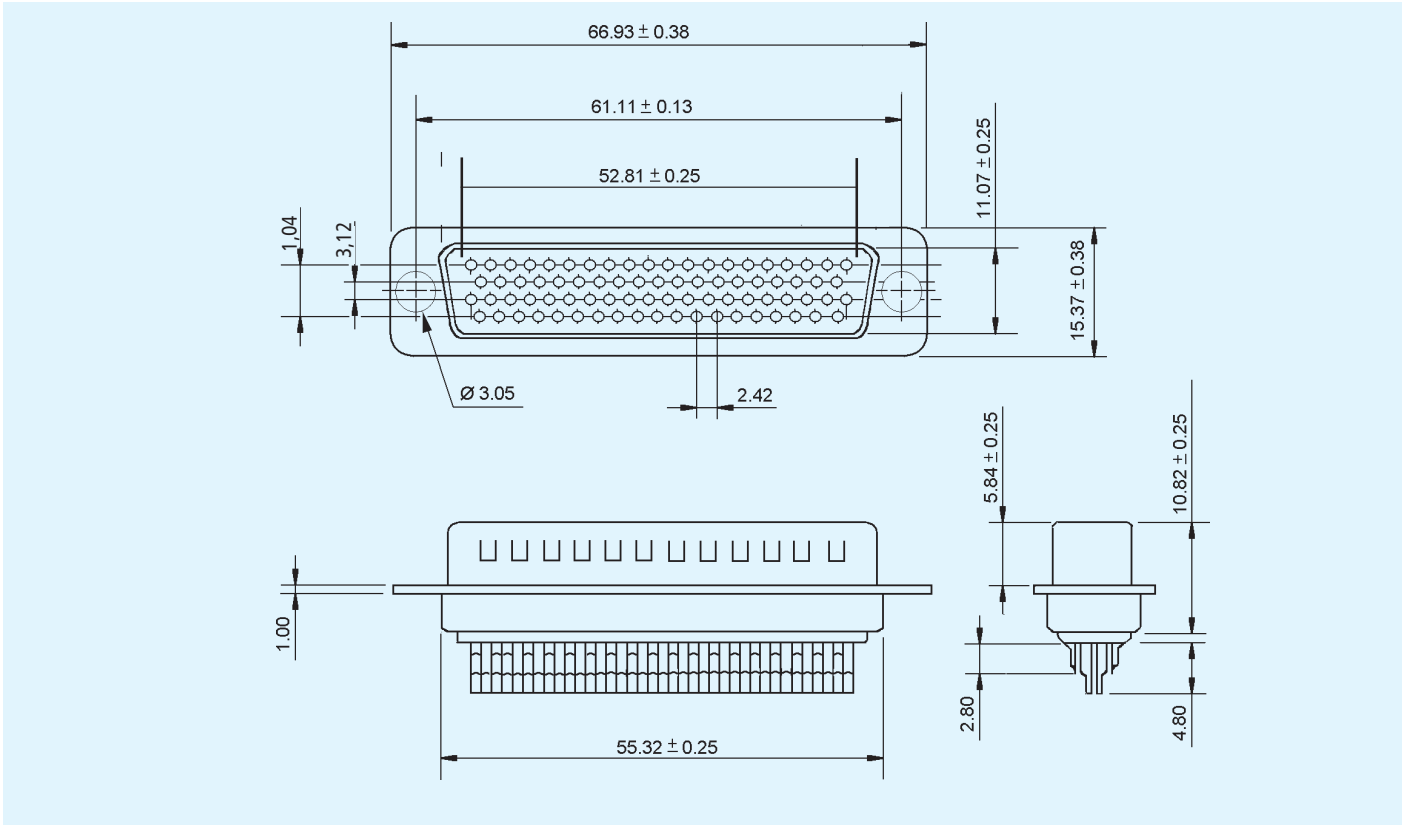
Plug 78 contacts



Designation

Shell size / Arrangement	Through hole	Rivnut thread 4-40	Screwlock thread 4-40
D / 78	ZDDA78P	ZDDAE78P	ZDDAE78P-AB

Note: Classe 2 - Add suffix A191 Example: ZDDA78P-A191



- Mounting options see page 44
- Panel cutouts see page 45
- Accessories see page 35, 36, 37, 38

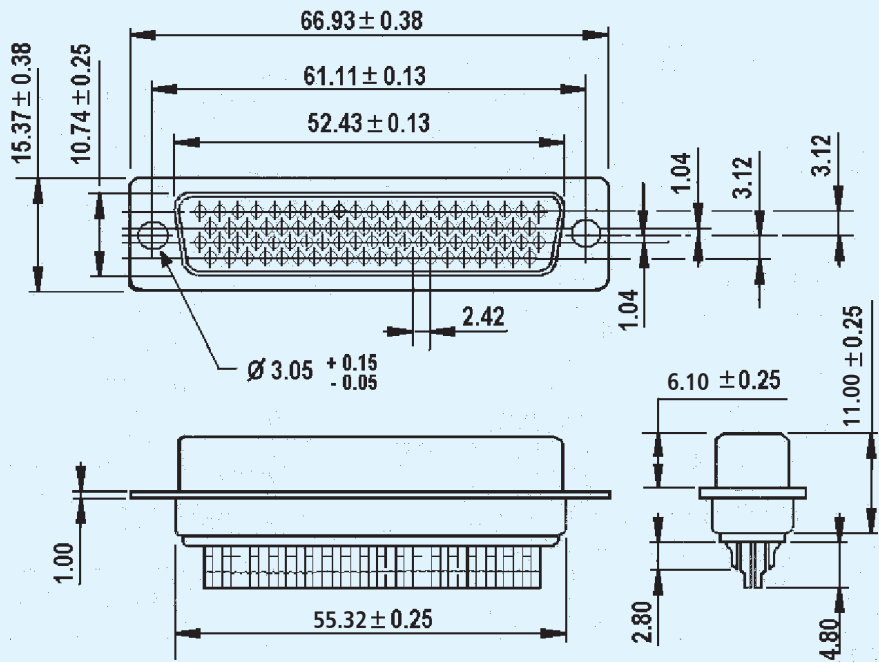
Receptacle 78 contacts



Designation

Shell size / Arrangement	Through hole	Rivnut thread 4-40	Screwlock thread 4-40
D / 78	ZDDA78S	ZDDAE78S	ZDDAE78S-AB

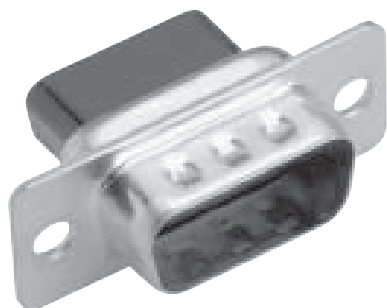
Note: Class 2 - Add suffix A191 Example: ZDDA78S-A191



- Mounting options see page 44
- Panel cutouts see page 45
- Accessories see page 35, 36, 37, 38

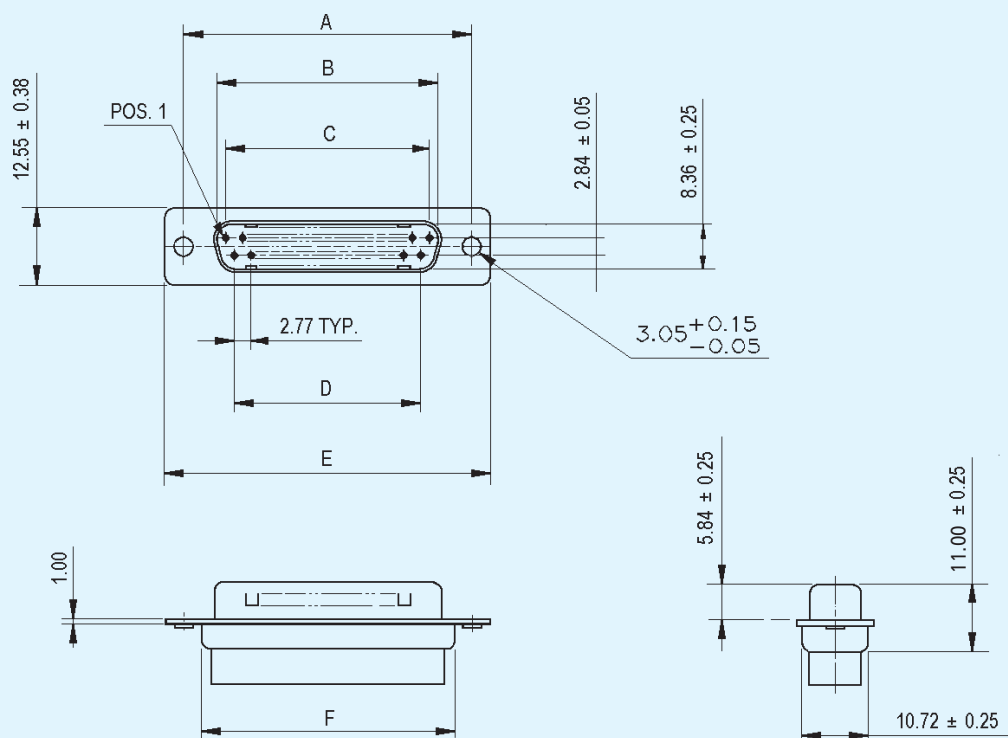
Plug 9 – 15 – 25 – 37 contacts

Designation



Shell size / Arrangement	Through hole	Rivnut thread 4-40	Screwlock thread 4-40
E / 9	DEA9P-K87-FO	DEAE9P-K87-FO	DEAE9P-K87-AB-FO
A / 15	DAA15P-K87-FO	DAAE15P-K87-FO	DAAE15P-K87-AB-FO
B / 25	DBA25P-K87-FO	DBAE25P-K87-FO	DBAE25P-K87-AB-FO
C / 37	DCA37P-K87-FO	DCAE37P-K87-FO	DCAE37P-K87-AB-FO

Connector supplied without contacts

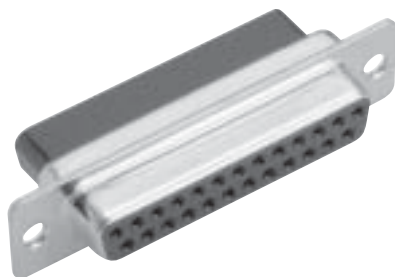


Shell	A ± 0,13	B ± 0,25	C ± 0,13	D ± 0,13	E ± 0,38	F ± 0,25
E	24,99	16,92	11,08	8,31	30,89	19,28
A	33,32	25,25	19,39	16,62	39,10	27,51
B	47,04	38,96	33,24	30,47	53,09	41,30
C	63,50	55,25	49,86	47,09	69,40	57,71

- Reeled contacts see page 39
- Mounting options see page 44
- Panel cutouts see page 45
- Accessories see page 35, 36, 37, 38

Receptacle

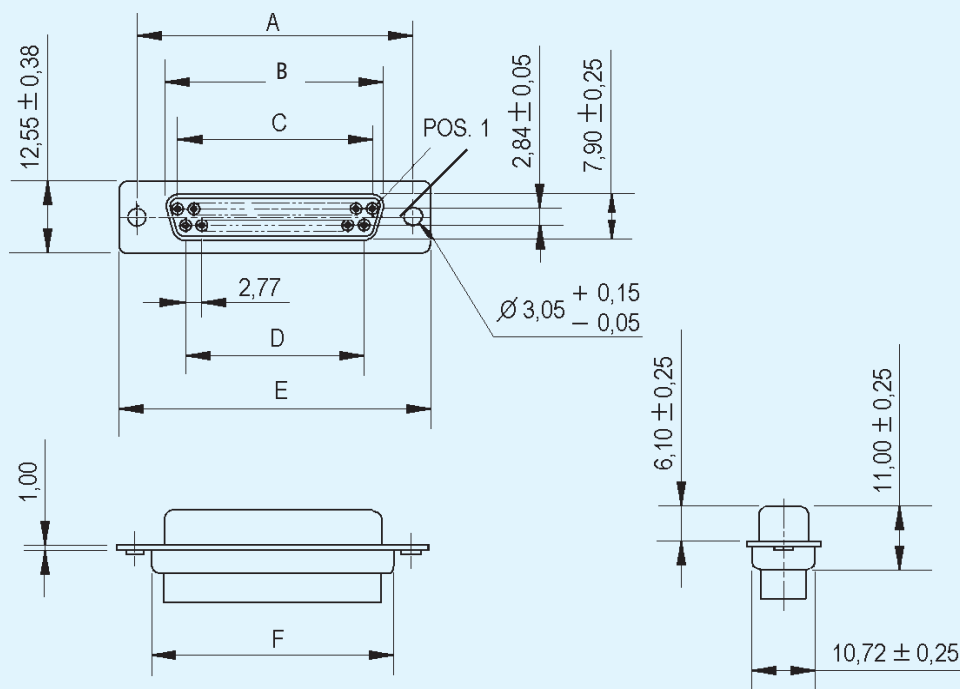
9 – 15 – 25 – 37 contacts



Designation

Shell size / Arrangement	Through hole	Rivnut thread 4-40	Screwlock thread 4-40
E / 9	DEA9S-A197-FO	DEAE9S-A197-FO	DEAE9S-A197-AB-FO
A / 15	DAA15S-A197-FO	DAAE15S-A197-FO	DAAE15S-A197-AB-FO
B / 25	DBA25S-A197-FO	DBAE25S-A197-FO	DBAE25S-A197-AB-FO
C / 37	DCA37S-A197-FO	DCAE37S-A197-FO	DCAE37S-A197-AB-FO

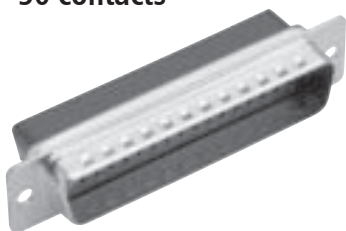
Connectors supplied without contacts



Shell	A ± 0,13	B ± 0,25	C ± 0,13	D ± 0,13	E ± 0,38	F ± 0,25
E	24,99	16,33	11,08	8,31	30,89	19,28
A	33,32	24,66	19,39	16,62	39,10	27,51
B	47,04	38,38	33,24	30,47	53,09	41,30
C	63,50	54,84	49,86	47,09	69,40	57,71

- Reeled contacts see page 39
- Mounting options see page 44
- Panel cutouts see page 45
- Accessories see page 35, 36, 37, 38

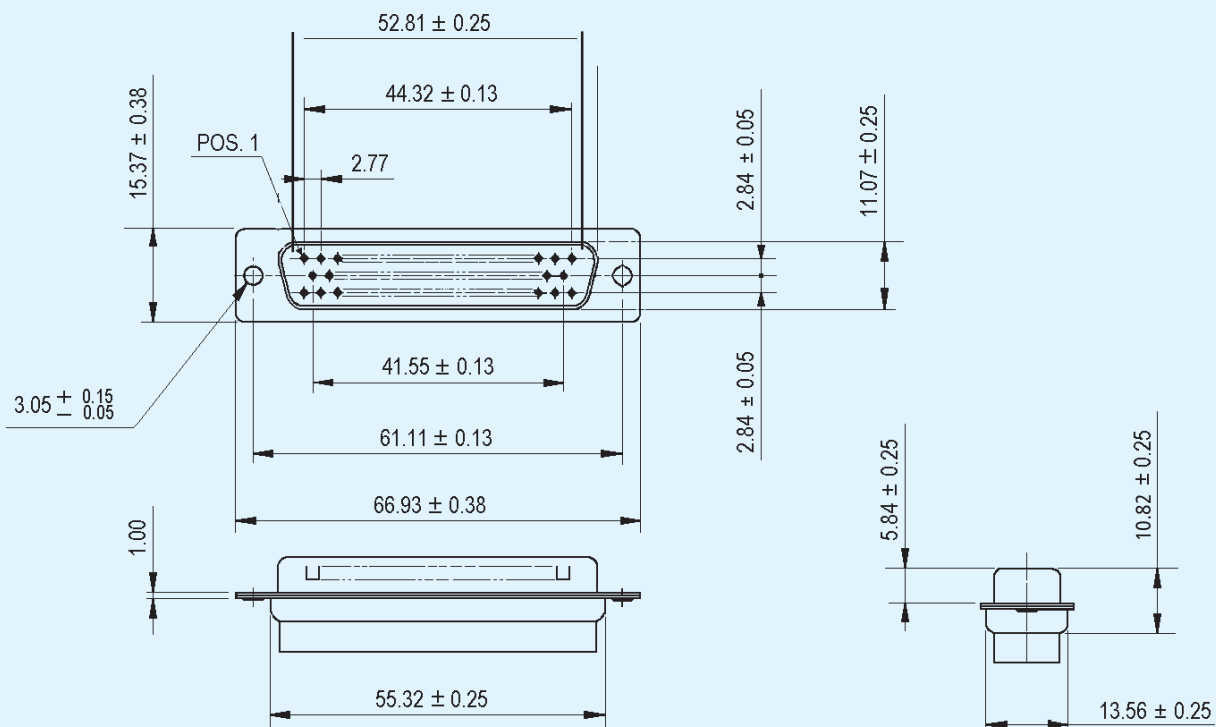
Plug 50 contacts



Designation

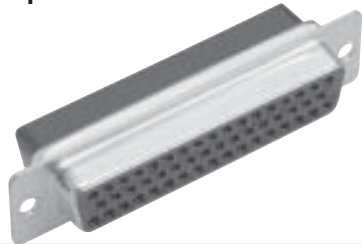
Shell size / Arrangement	Through hole	Rivnut thread 4-40	Screwlock thread 4-40
D / 50	DDA50P-K87-FO	DDAE50P-K87-FO	DDAE50P-K87-AB-FO

Connectors supplied without contacts



- Reeled contacts see page 39
- Mounting options see page 44
- Panel cutouts see page 45
- Accessories see page 35, 36, 37, 38

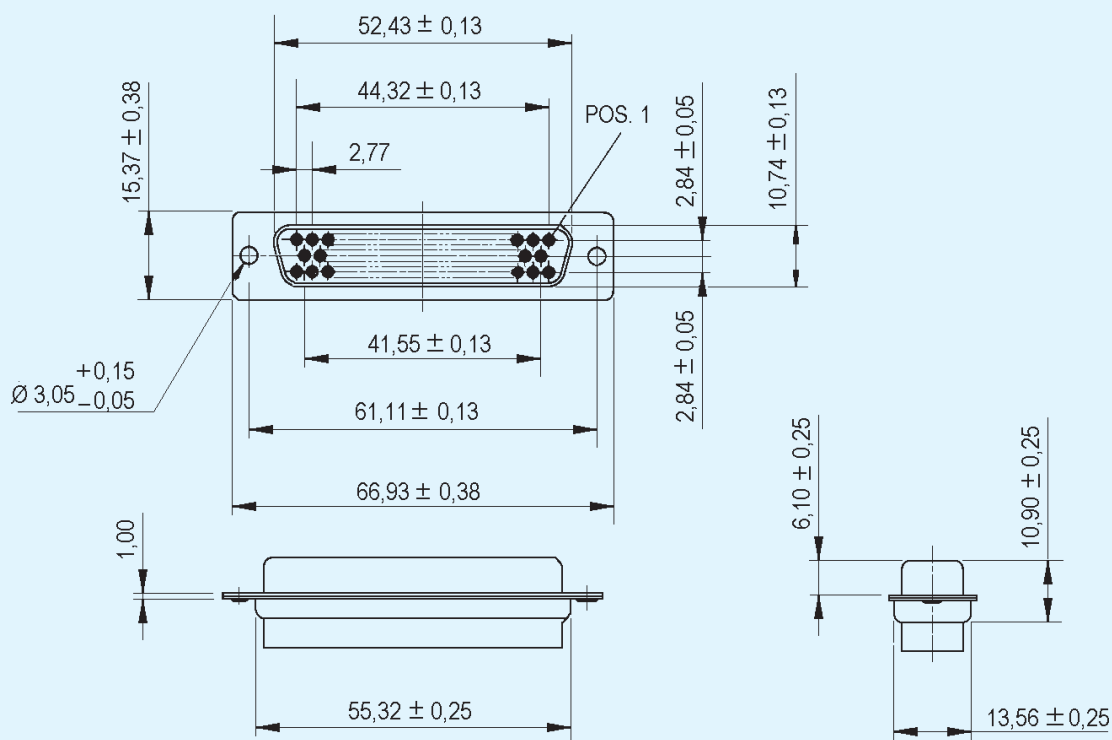
Receptacle 50 contacts



Designation

Shell size / Arrangement	Through hole	Rivnut thread 4-40	Screwlock thread 4-40
D / 50	DDA50S-A197-FO	DDAE50S-A197-FO	DDAE50S-A197-AB-FO

Connectors supplied without contacts



- Reeled contacts see page 39
- Mounting options see page 44
- Panel cutouts see page 45
- Accessories see page 35, 36, 37, 38

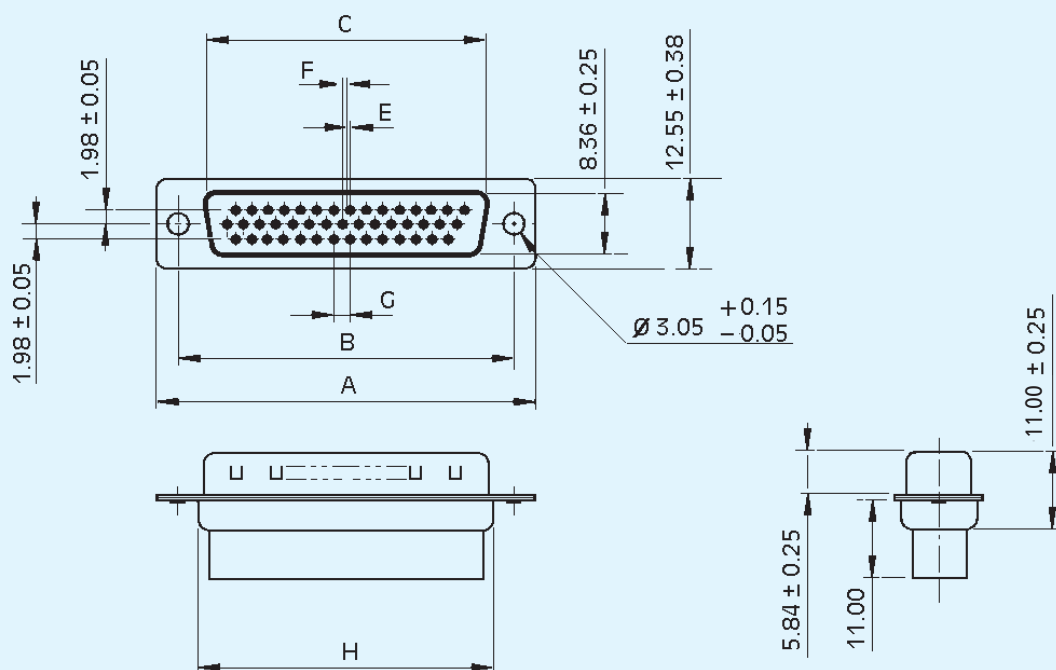
Plug 15 - 26 - 44 - 62 contacts

Designation



Shell size / Arrangement	Through hole	Rivnut thread 4-40	Screwlock thread 4-40
E / 15	ZDEA15P-FO	ZDEAE15P-FO	ZDEAE15P-AB-FO
A / 26	ZDAA26P-FO	ZDAAE26P-FO	ZDAAE26P-AB-FO
B / 44	ZDBA44P-FO	ZDBAE44P-FO	ZDBAE44P-AB-FO
C / 62	ZDCA62P-FO	ZDCAE62P-FO	ZDCAE62P-AB-FO

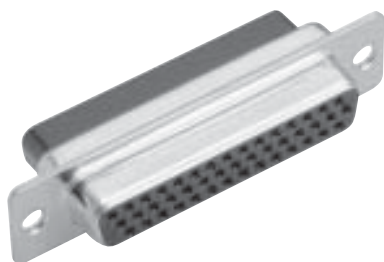
Connectors supplied without contacts



Shell	A ± 0,38	B ± 0,13	C ± 0,25	E	F	G ± 0,05	H ± 0,25
E	30,89	24,99	16,92	0,25	0,89	2,29	19,28
A	39,10	33,32	25,25	0,51	0,64	2,29	27,51
B	53,09	47,04	38,96	0,51	0,64	2,29	41,30
C	69,40	63,50	55,25	0,58	0,62	2,41	57,71

- Reeled contacts see page 39
- Mounting options see page 44
- Panel cutouts see page 45
- Accessories see page 35, 36, 37, 38

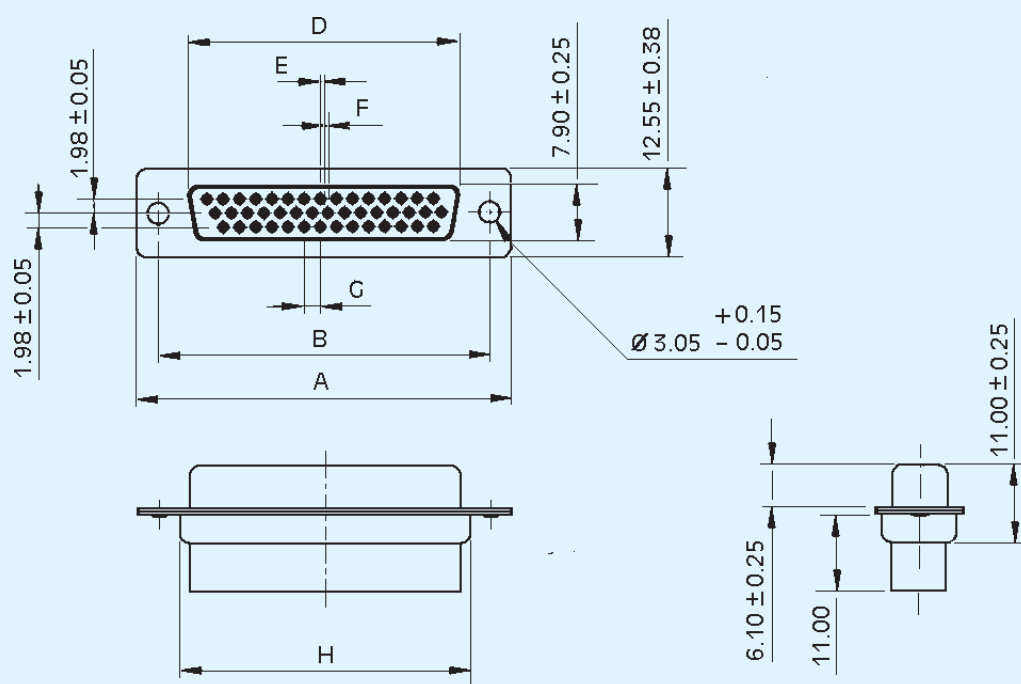
Receptacle 15 - 26 - 44 - 62 contacts



Designation

Shell size / Arrangement	Through hole	Rivnut thread 4-40	Screwlock thread 4-40
E / 15	ZDEA15S-FO	ZDEAE15S-FO	ZDEAE15S-AB-FO
A / 26	ZDAA26S-FO	ZDAAE26S-FO	ZDAAE26S-AB-FO
B / 44	ZDBA44S-FO	ZDBAE44S-FO	ZDBAE44S-AB-FO
C / 62	ZDCA62S-FO	ZDCAE62S-FO	ZDCAE62S-AB-FO

Connectors supplied without contacts



Shell	A $\pm 0,38$	B $\pm 0,13$	D $\pm 0,25$	E	F	G $\pm 0,05$	H $\pm 0,25$
E	30,89	24,99	16,33	0,25	0,89	2,29	19,28
A	39,10	33,32	24,66	0,51	0,64	2,29	27,51
B	53,09	47,04	38,38	0,51	0,64	2,29	41,30
C	69,40	63,50	54,84	0,58	0,62	2,41	57,71

- Reeled contacts see page 39
- Mounting options see page 44
- Panel cutouts see page 45
- Accessories see page 35, 36, 37, 38

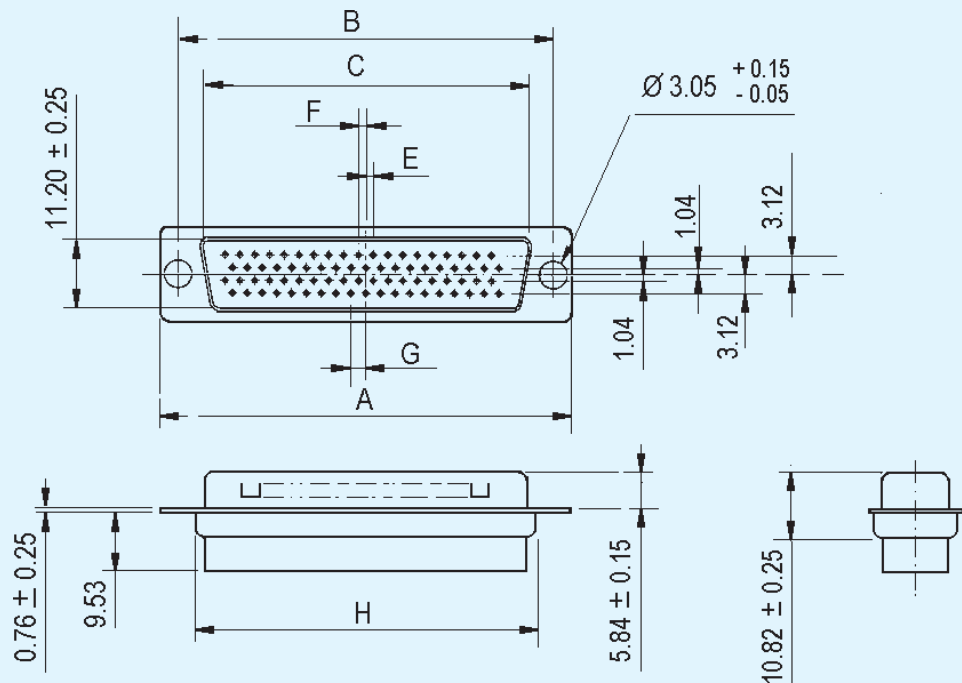
Plug 78 contacts



Designation

Shell size / Arrangement	Through hole	Rivnut thread 4-40	Screwlock thread 4-40
D / 78	ZDDA78P-FO	ZDDAE78P-FO	ZDDAE78P-AB-FO

Connectors supplied without contacts



Shell	A $\pm 0,38$	B $\pm 0,13$	C $\pm 0,25$	E	F	G $\pm 0,05$	H $\pm 0,25$
D	66,93	61,11	52,81	1,21	1,21	2,41	55,32

- Reeled contacts see page 39
- Mounting options see page 44
- Panel cutouts see page 45
- Accessories see page 35, 36, 37, 38

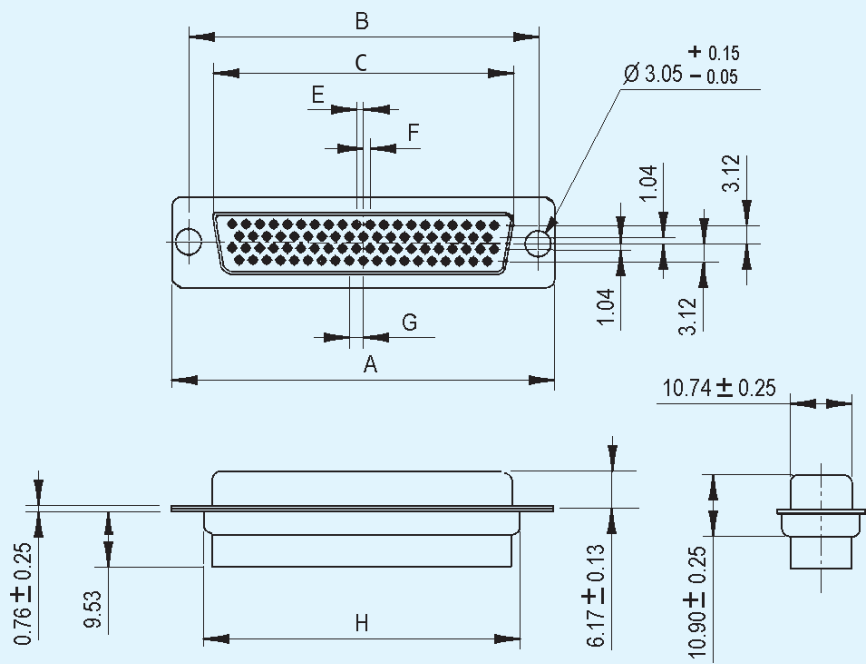
Receptacle 78 contacts



Designation

Shell size / Arrangement	Through hole	Rivnut thread 4-40	Screwlock thread 4-40
D / 78	ZDDA78S-FO	ZDDAE78S-FO	ZDDAE78S-AB-FO

Connectors supplied without contacts

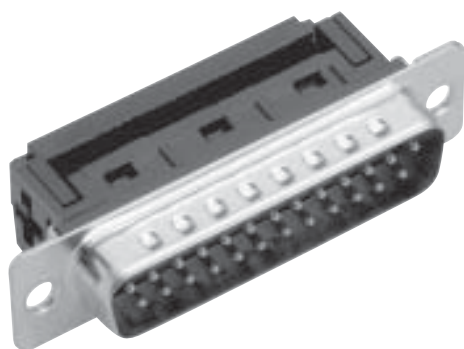


Shell	A ± 0,38	B ± 0,13	C ± 0,25	E	F	G ± 0,05	H ± 0,25
D	66,93	61,11	52,43	1,21	1,21	2,41	55,32

- Reeled contacts see page 39
- Mounting options see page 44
- Panel cutouts see page 45
- Accessories see page 35, 36, 37, 38

Plug 9 – 15 – 25 – 37 contacts

Designation



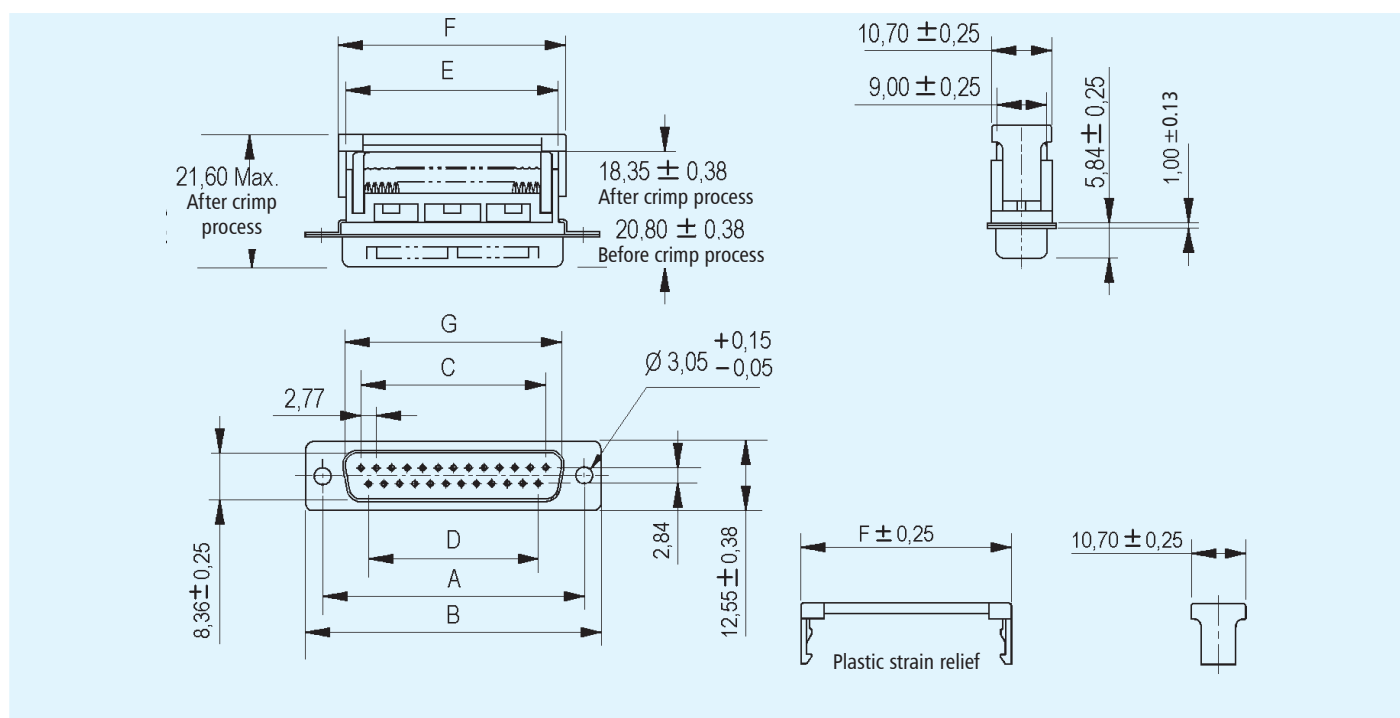
Shell size / Arrangement	Throug hole	Rivnut thread 4-40	Screwlock thread 4-40
E / 9	ZDESFP9P-SR	ZDESFE9P-SR	ZDESFE9P-SR-AB
A / 15	ZDASF15P-SR	ZDASFE15P-SR	ZDASFE15P-SR-AB
B / 25	ZDBSF25P-SR	ZDBSFE25P-SR	ZDBSFE25P-SR-AB
C / 37	ZDCSF37P-SR	ZDCSFE37P-SR	ZDCSFE37P-SR-AB

Note: Class 2 - Add suffix A191

Example: ZDESFP9P-A191-SR

All the IDC connectors are supplied with a plastic strain relief (code SR)

To order the connectors without the plastic strain relief, suppress the code SR in the designation.
Example: ZDESFP9P



Shell	A ± 0,13	B ± 0,25	C ± 0,13	D ± 0,13	E ± 0,25	F ± 0,25	G ± 0,20
E	24,99	30,80	11,08	8,31	16,10	18,60	16,92
A	33,32	39,10	19,39	16,62	24,00	26,60	25,25
B	47,04	53,09	33,24	30,47	38,14	40,90	38,96
C	63,50	69,40	49,86	47,09	54,60	57,10	55,45

- Mounting options see page 44
- Panel cutouts see page 45
- Accessories see page 35, 36, 37, 38

Receptacle 9 – 15 – 25 – 37 contacts



Designation

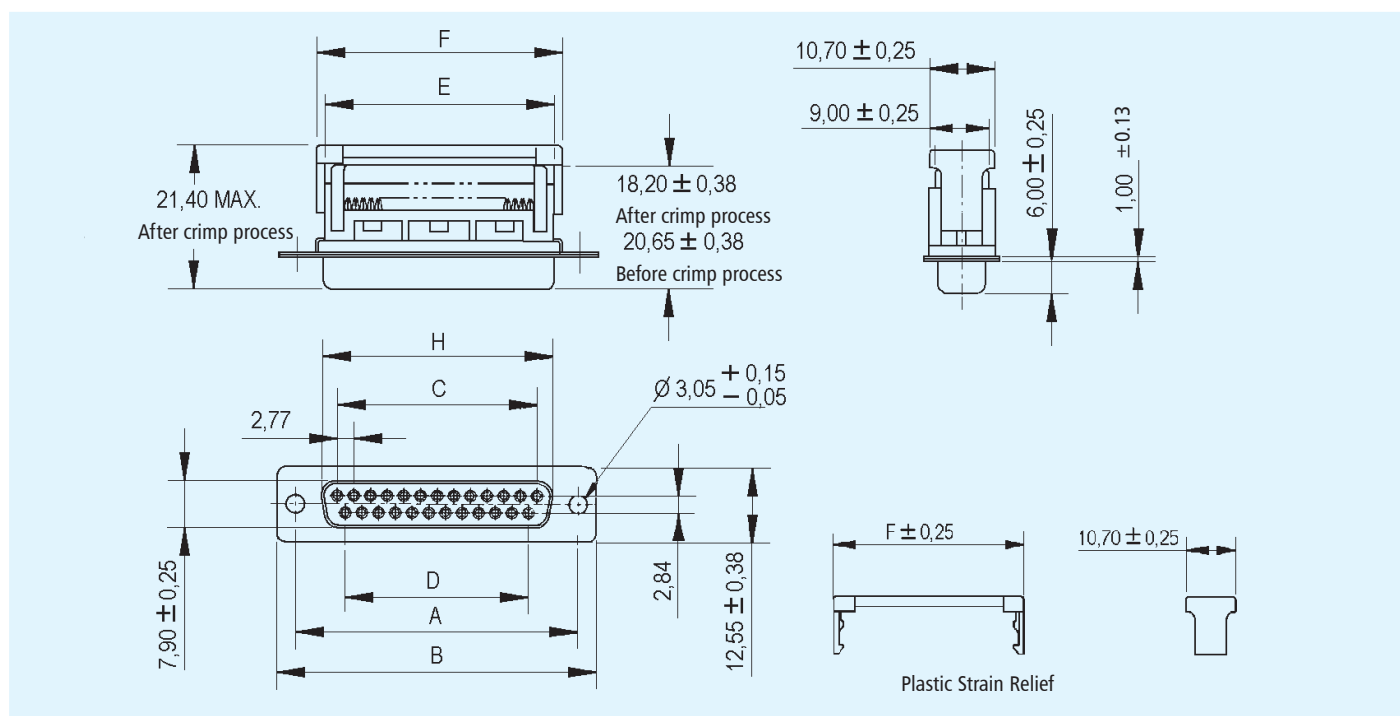
Shell size / Arrangement	Through hole	Rivnut thread 4-40	Screwlock thread 4-40
E / 9	ZDESFE9S-SR	ZDESFE9S-SR	ZDESFE9S-SR-AB
A / 15	ZDASFE15S-SR	ZDASFE15S-SR	ZDASFE15S-SR-AB
B / 25	ZDBSFE25S-SR	ZDBSFE25S-SR	ZDBSFE25S-SR-AB
C / 37	ZDCSFE37S-SR	ZDCSFE37S-SR	ZDCSFE37S-SR-AB

Note: Class 2 - Add suffix A191

Example: ZDESFE9S-A191-SR

All the IDC connectors are supplied with a plastic strain relief (code SR)

To order the connectors without the plastic strain relief, suppress the code SR in the designation.
Example: ZDESFE9S



Shell	A ± 0,13	B ± 0,25	C ± 0,13	D ± 0,13	E ± 0,25	F ± 0,25	G ± 0,20
E	24,99	30,80	11,08	8,31	16,10	18,60	16,33
A	33,32	39,10	19,39	16,62	24,00	26,60	24,66
B	47,04	53,09	33,24	30,47	38,14	40,90	38,38
C	63,50	69,40	49,86	47,09	54,60	57,10	54,84

- Mounting options see page 44
- Panel cutouts see page 45
- Accessories see page 35, 36, 37, 38

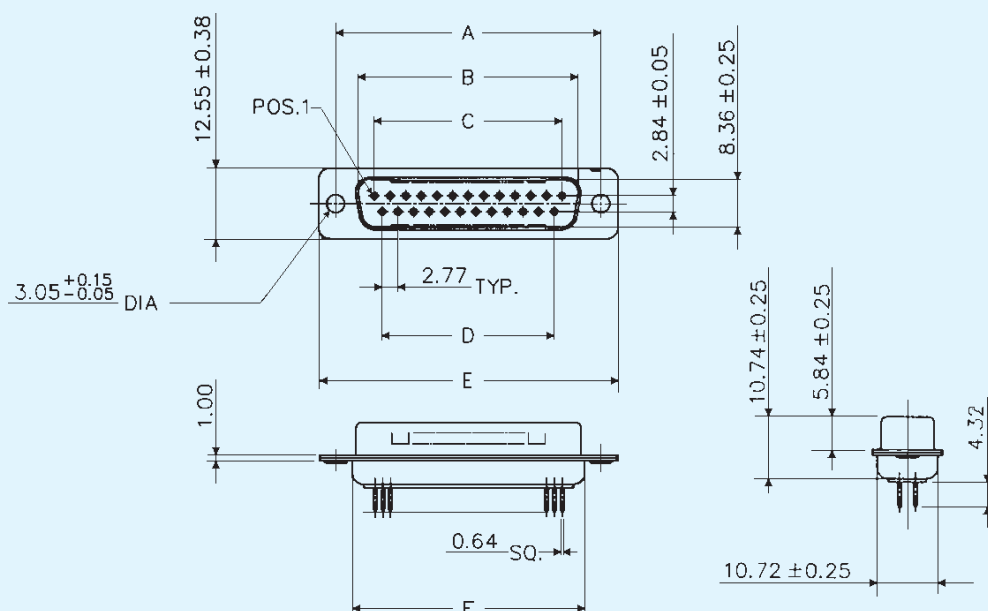
Plug 9 – 15 – 25 – 37 contacts



Designation

Shell size / Arrangement	Through hole	Rivnut thread 4 - 40	Screwlock thread 4 - 40	Boardlock and thread 4 - 40 2B	Boardlock and screwlock 4 - 40 2B
E / 9	ZDE9POL2	ZDEE9POL2	ZDEE9POL2-AB	ZDEE9POL2-146	ZDEE9POL2-AB146
A / 15	ZDA15POL2	ZDAE15POL2	ZDAE15POL2-AB	ZDAE15POL2-146	ZDAE15POL2-AB-146
B / 25	ZDB25POL2	ZDBE25POL2	ZDBE25POL2-AB	ZDBE25POL2-146	ZDBE25POL2-AB-146
C / 37	ZDC37POL2	ZDCE37POL2	ZDCE37POL2-AB	ZDCE37POL2-146	ZDCE37POL2-AB-146

Note: Class 2 - Add suffix A191 Example: ZDE9POL2-A191



Shell	A $\pm 0,13$	B $\pm 0,25$	C $\pm 0,13$	D $\pm 0,13$	E $\pm 0,38$	F $\pm 0,25$
E	24,99	16,92	11,07	8,31	30,89	19,28
A	33,32	25,25	19,39	16,60	39,10	27,51
B	47,04	38,96	33,24	30,47	53,09	41,30
C	63,50	55,42	49,86	47,09	69,40	57,71

- Mounting options see page 44
- Panel cutouts see page 45
- Accessories see page 35, 36, 37, 38

Receptacle

9 – 15 – 25 – 37 contacts

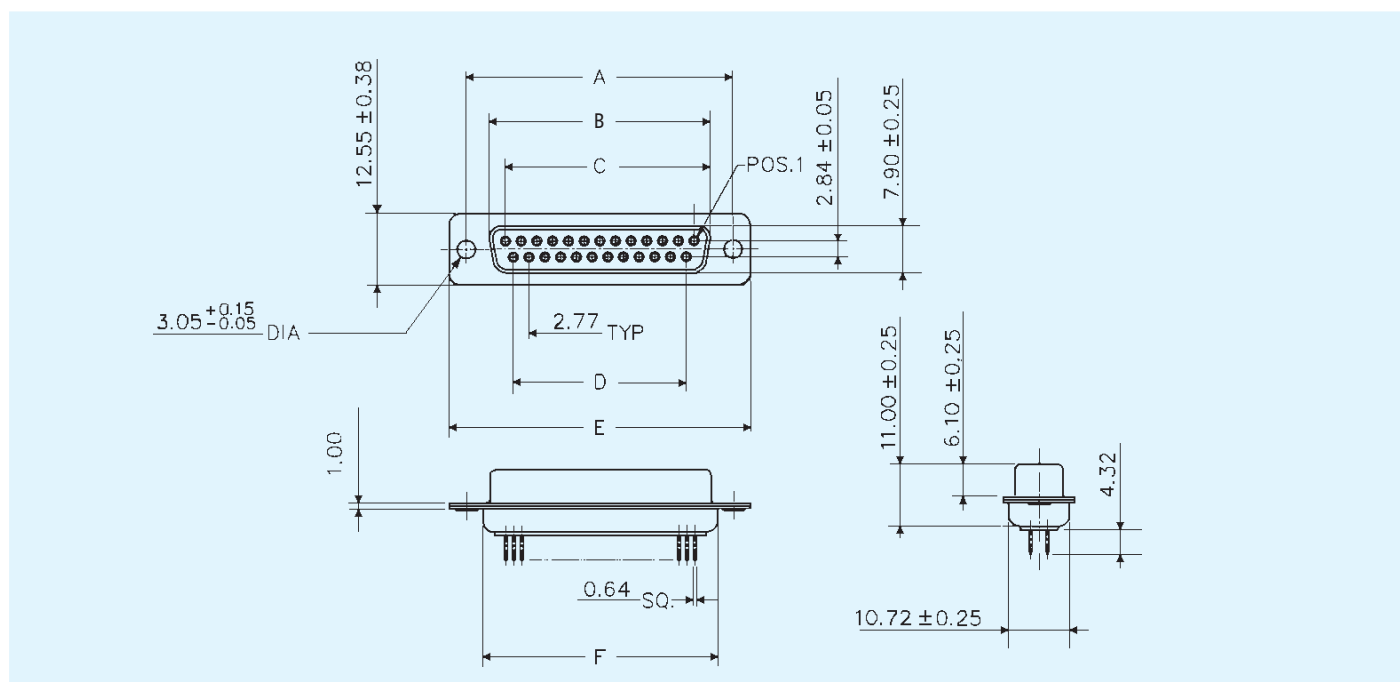


Designation

Shell size / Arrangement	Through hole	Rivnut thread 4 - 40	Screwlock thread 4 - 40	Boardlock and thread 4 - 40 2B	Boardlock and screwlock 4 - 40 2B
E / 9	ZDE9SOL2	ZDEE9SOL2	ZDEE9SOL2-AB	ZDEE9SOL2-146	ZDEE9SOL2-AB-146
A / 15	ZDA15SOL2	ZDAE15SOL2	ZDAE15SOL2-AB	ZDAE15SOL2-146	ZDAE15SOL2-AB-146
B / 25	ZDB25SOL2	ZDBE25SOL2	ZDBE25SOL2-AB	ZDBE25SOL2-146	ZDBE25SOL2-AB-146
C / 37	ZDC37SOL2	ZDCE37SOL2	ZDCE37SOL2-AB	ZDCE37SOL2-146	ZDCE37SOL2-AB-146

Note: Class 2 - Add suffix A191

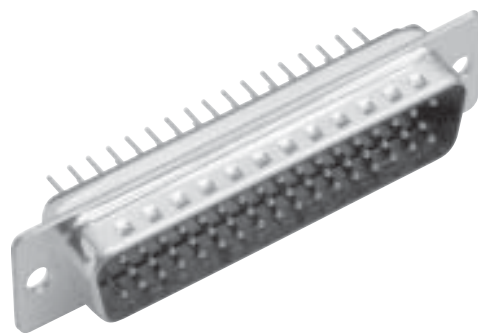
Example: ZDE9SOL2-A191



Shell	A $\pm 0,13$	B $\pm 0,25$	C $\pm 0,13$	D $\pm 0,13$	E $\pm 0,38$	F $\pm 0,25$
E	24,99	16,33	11,08	8,31	30,89	19,28
A	33,32	24,66	19,39	16,60	39,10	27,51
B	47,04	38,38	33,24	30,47	53,09	41,30
C	63,50	54,84	49,86	47,09	69,40	57,71

- Mounting options see page 44
- Panel cutouts see page 45
- Accessories see page 35, 36, 37, 38

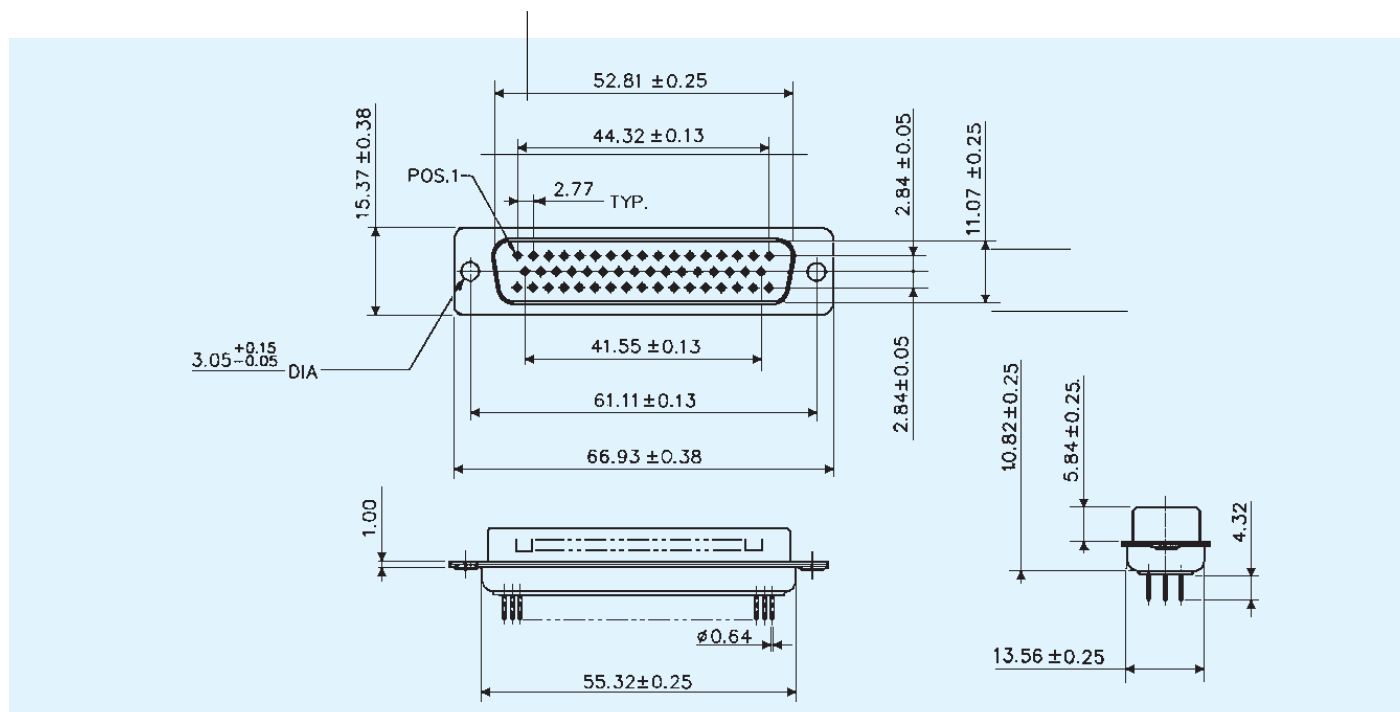
Plug 50 contacts



Designation

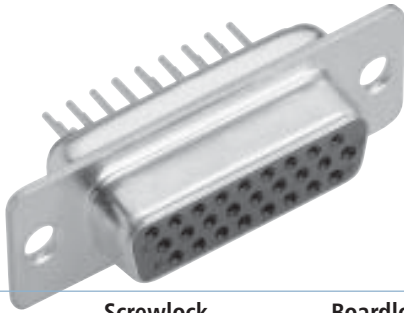
Shell size / Arrangement	Through hole	Rivnut thread 4 - 40	Screwlock thread 4 - 40	Boardlock and thread 4 - 40 2B	Boardlock and screwlock 4 - 40 2B
D / 50	ZDD50POL2	ZDDE50POL2	ZDDE50POL2-AB	ZDDE50POL2-146	ZDDE50POL2-AB-146

Note: Class 2 - Add suffix A191 Example: ZDD50POL2-A191



- Mounting options see page 44
- PCB hole pattern see page 40
- Panel cut outs see page 45

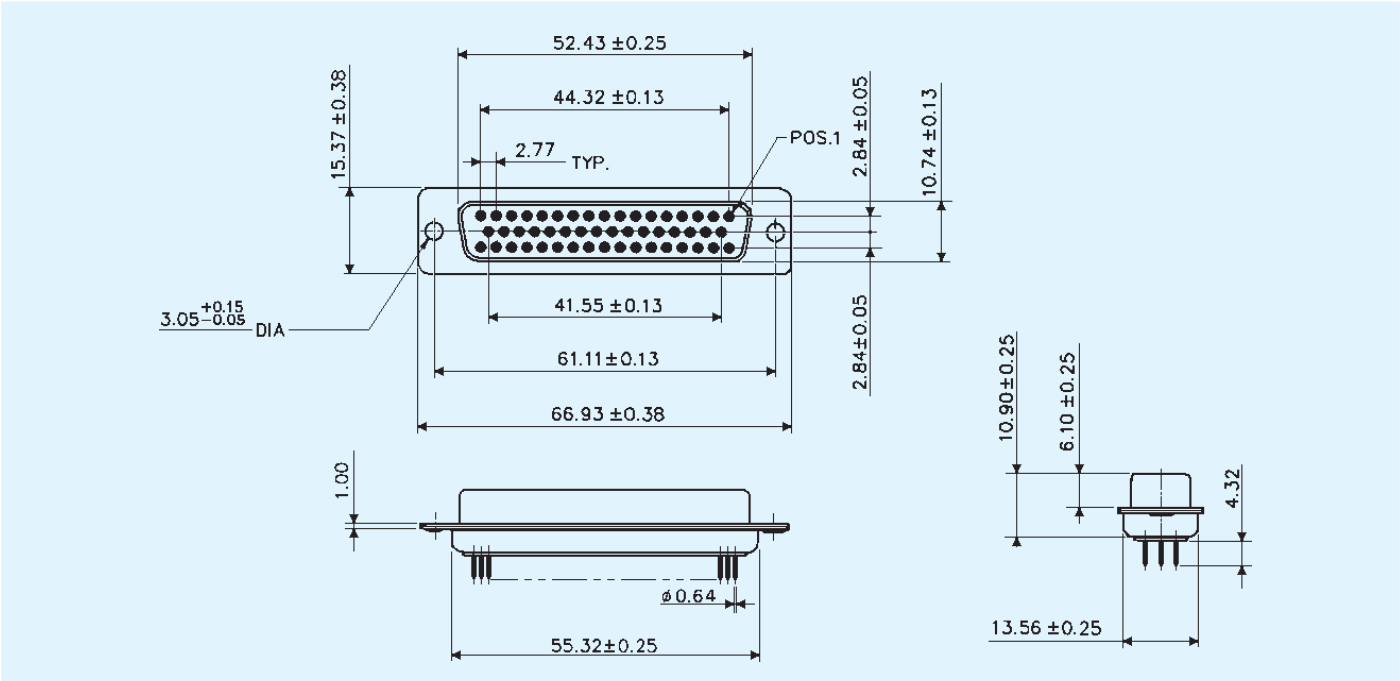
Receptacle 50 contacts



Designation

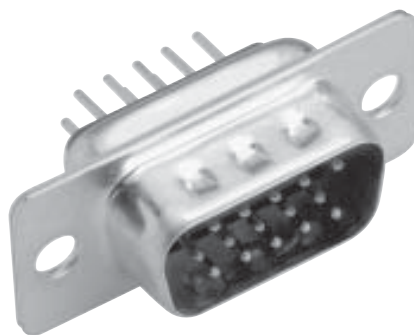
Shell size / Arrangement	Through hole	Rivnut thread 4 - 40	Screwlock thread 4 - 40	Boardlock and thread 4 - 40	Boardlock and screwlock 4 - 40
D / 50	ZDD50SOL2	ZDDE50SOL2	ZDDE50SOL2-AB	ZDDE50SOL2-146	ZDDE50SOL2-AB-146

Note: Class 2 - Add suffix A191 Example: ZDD50SOL2-A191



- Mounting options see page 44
- PCB hole pattern see page 40
- Panel cut outs see page 45

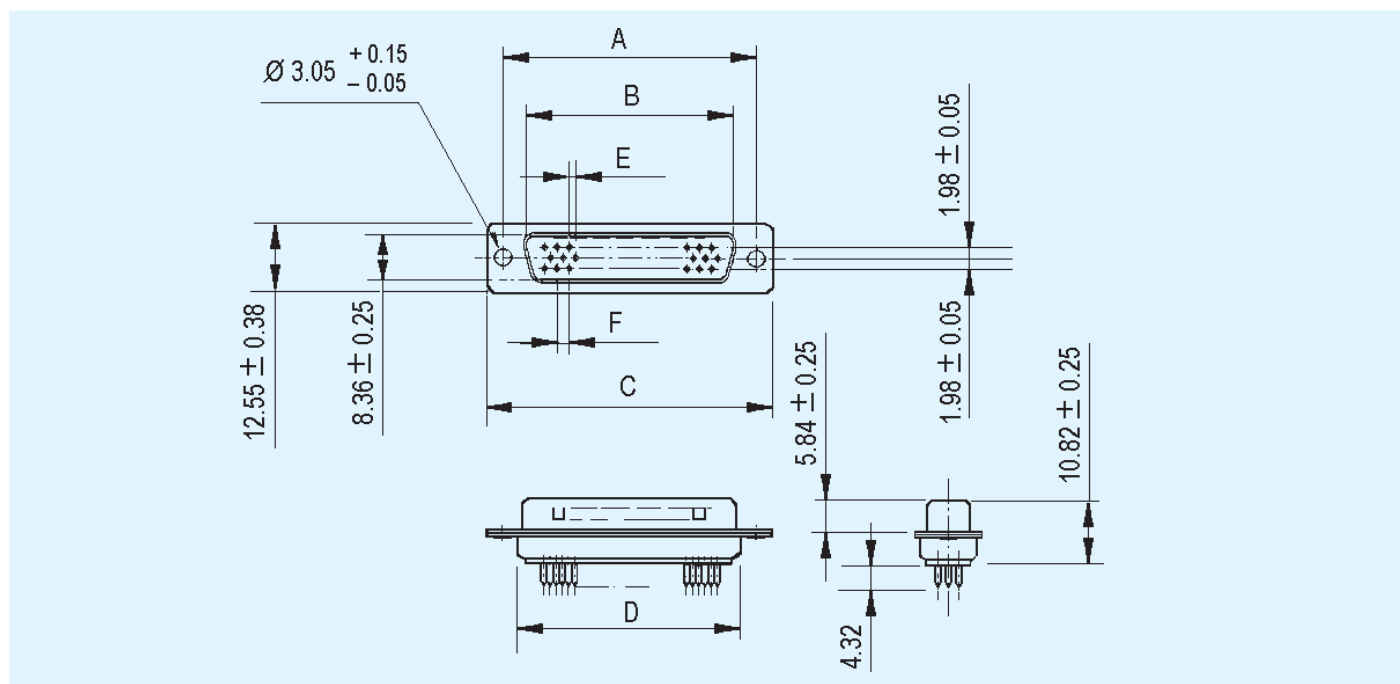
Plug
15 – 26 – 44 - 62 contacts



Designation

Shell size / Arrangement	Through hole	Rivnut 4 - 40 2B	Screwlock 4 - 40 2B	Boardlock and thread 4 - 40 2B	Boardlock and screwlock 4 - 40 2B
E / 15	ZDEA15POL2	ZDEAE15POL2	ZDEAE15POL2-AB	ZDEAE15POL2-146	ZDEAE15POL2-AB-146
A / 26	ZDAA26POL2	ZDAAE26POL2	ZDAAE26POL2-AB	ZDAAE26POL2-146	ZDAAE26POL2-AB-146
B / 44	ZDBA44POL2	ZDBAE44POL2	ZDBAE44POL2-AB	ZDBAE44POL2-146	ZDBAE44POL2-AB-146
C / 62	ZDCA62POL2	ZDCAE62POL2	ZDCAE62POL2-AB	ZDCAE62POL2-146	ZDCAE62POL2-AB-146

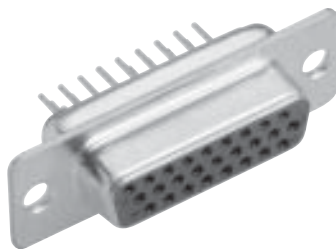
Note: Class 2 - Add suffix A191 Example: ZDEA15POL2-A191



Shell	A ± 0,13	B ± 0,25	C ± 0,38	D ± 0,25	E ± 0,05	F ± 0,05
E	24,99	16,92	30,89	19,28	1,145	2,29
A	33,32	25,25	39,10	27,51	1,145	2,29
B	47,04	38,96	53,09	41,30	1,145	2,29
C	63,50	55,25	69,40	57,71	1,145	2,29

- Mounting options see page 44
- PCB hole pattern see page 41
- Panel cut outs see page 45

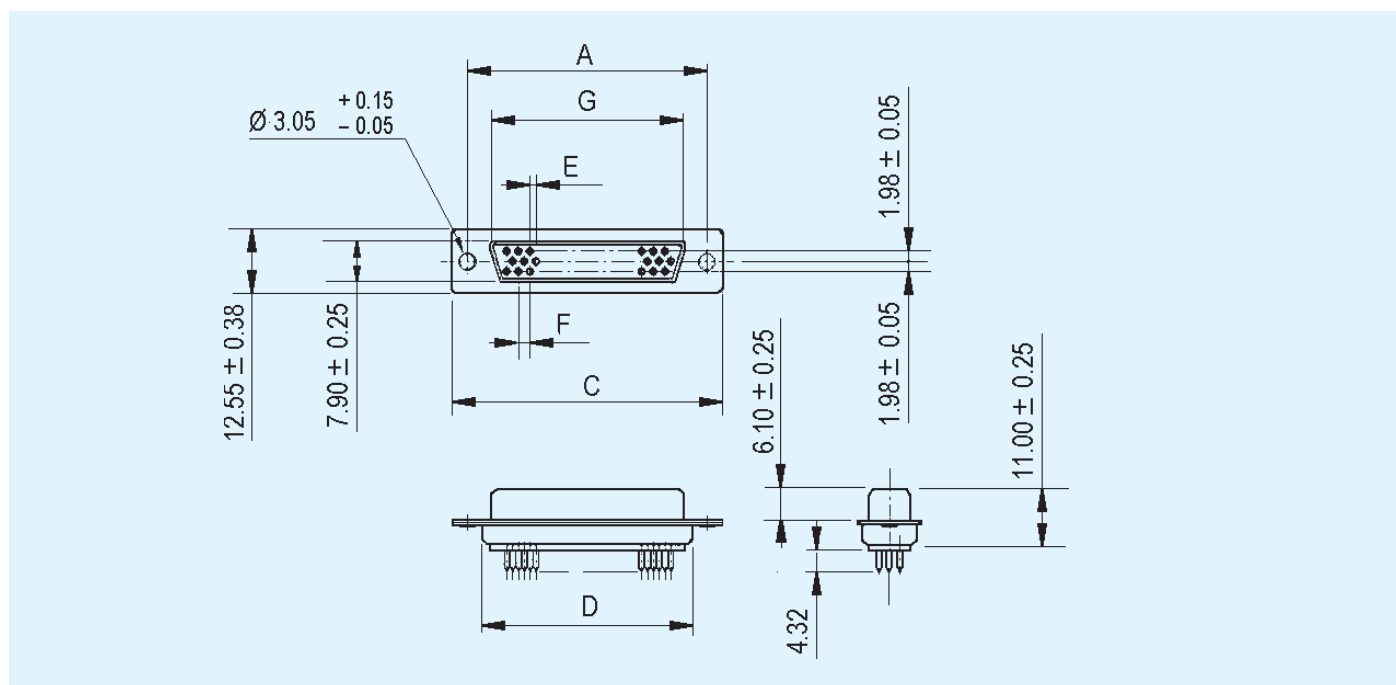
Receptacle
15 – 26 – 44 - 62 contacts



Designation

Shell size / Arrangement	Through hole	Rivnut 4 - 40 2B	Screwlock 4 - 40 2B	Boardlock and thread 4 - 40 2B	Boardlock and screwlock 4 - 40 2B
E / 15	ZDEA15SOL2	ZDEAE15SOL2	ZDEAE15SOL2-AB	ZDEAE15SOL2-146	ZDEAE15SOL2-AB-146
A / 26	ZDAA26SOL2	ZDAAE26SOL2	ZDAAE26SOL2-AB	ZDAAE26SOL2-146	ZDAAE26SOL2-AB-146
B / 44	ZDBA44SOL2	ZDBAE44SOL2	ZDBAE44SOL2-AB	ZDBAE44SOL2-146	ZDBAE44SOL2-AB-146
C / 62	ZDCA62SOL2	ZDCAE62SOL2	ZDCAE62SOL2-AB	ZDCAE62SOL2-146	ZDCAE62SOL2-AB-146

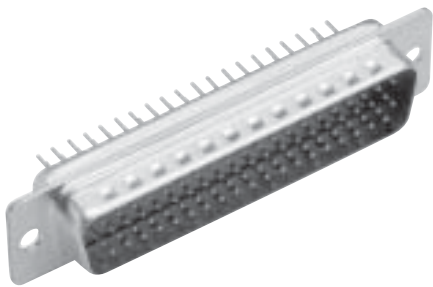
Note: Class 2 - Add suffix A191 Example: ZDEA15SOL2-A191



Shell	A ± 0,13	G ± 0,25	C ± 0,38	D ± 0,25	E ± 0,05	F ± 0,05
E	24,99	16,33	30,89	19,28	1,145	2,29
A	33,32	24,66	39,10	27,51	1,145	2,29
B	47,04	38,38	53,09	41,30	1,145	2,29
C	63,50	54,84	69,40	57,71	1,145	2,29

- Mounting options see page 44
- PCB hole pattern see page 41
- Panel cut outs see page 45

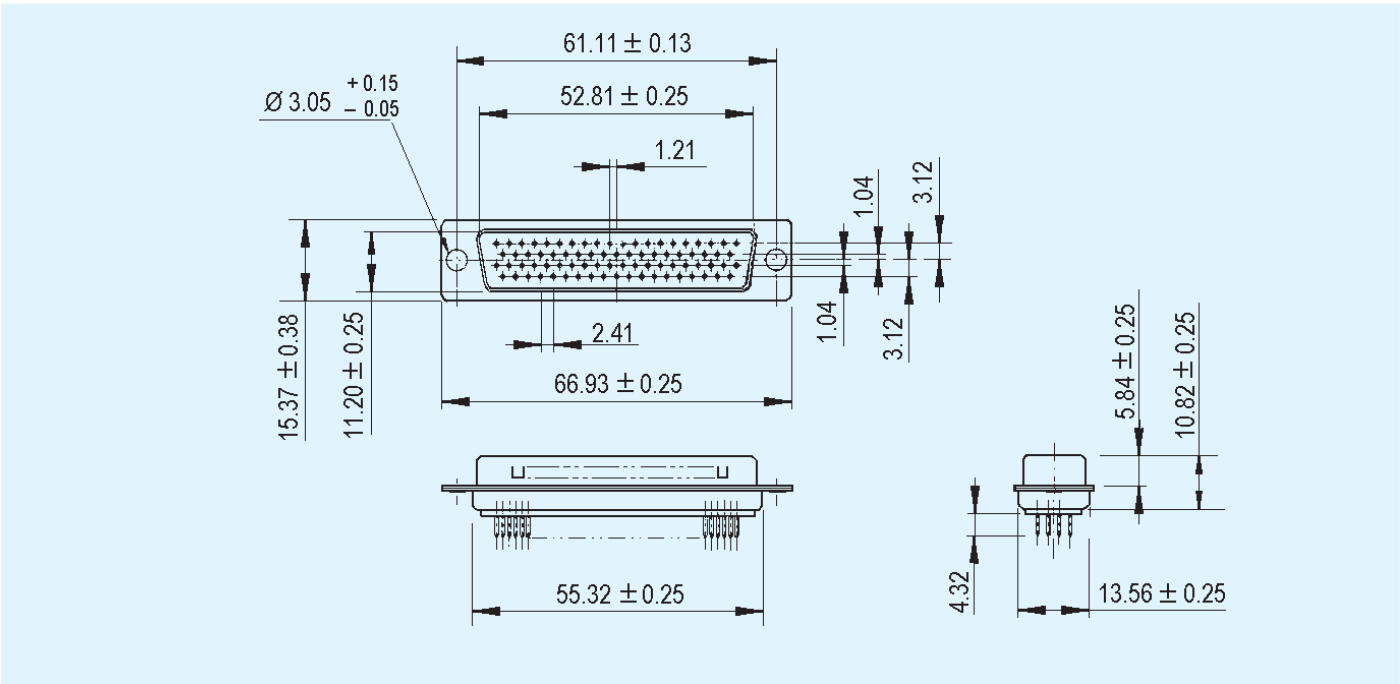
Plug 78 contacts



Designation

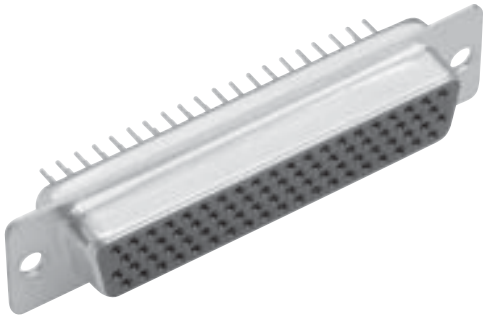
Shell size / Arrangement	Through hole	Rivnut thread 4 - 40	Screwlock thread 4 - 40	Boardlock and thread 4-40 2B	Boardlock and screwlock 4 - 40 2B
D / 78	ZDDA78POL2	ZDDAE78POL2	ZDDAE78POL2-AB	ZDDAE78POL2-146	ZDDAE78POL2-AB-146

Note: Class 2 - Add suffix A191 Example: ZDDA78POL2-A191



- Mounting options see page 44
- PCB hole pattern see page 41
- Panel cut outs see page 45

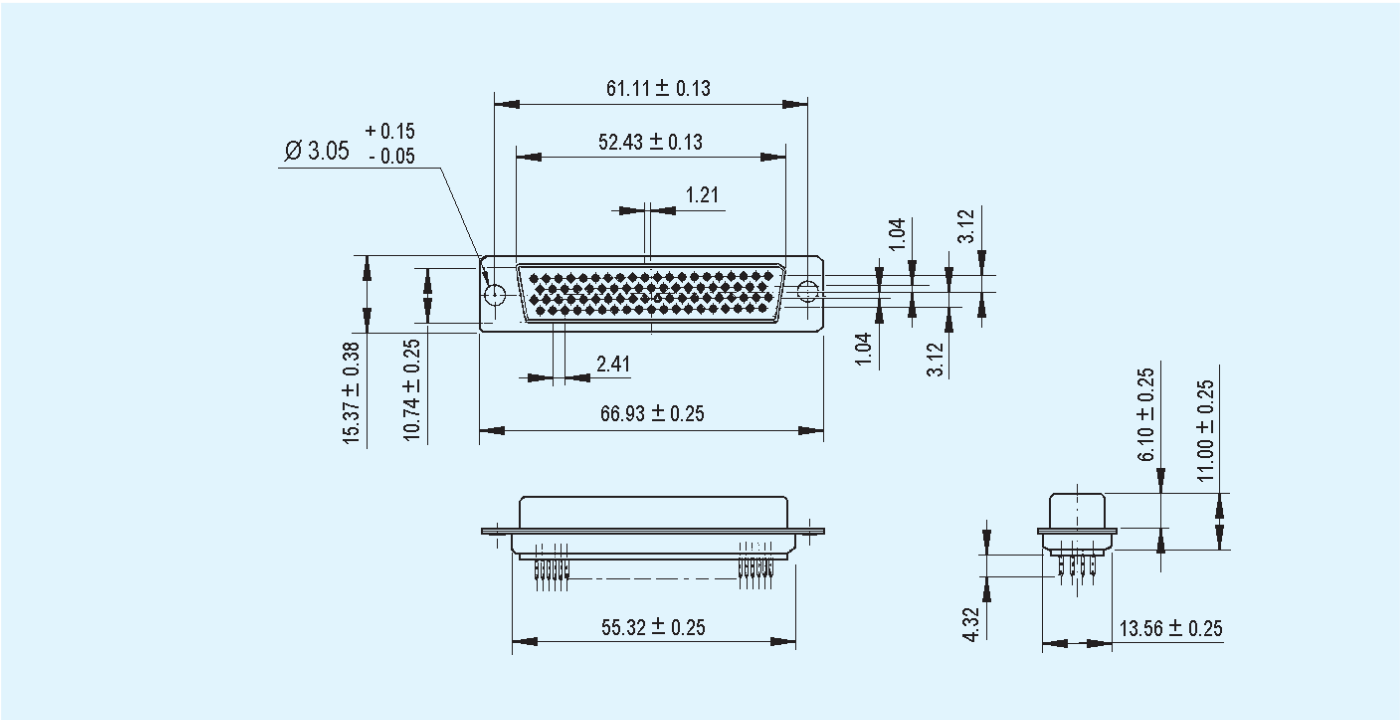
Receptacle 78 contacts



Designation

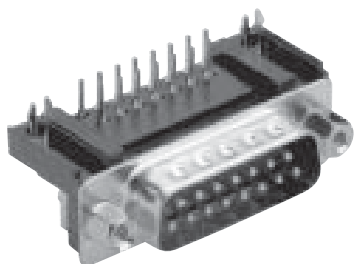
Shell size / Arrangement	Through hole	Rivnut thread 4 - 40	Screwlock thread 4 - 40	Boardlock and thread 4 - 40 2B	Boardlock and screwlock 4 - 40 2B
D / 78	ZDDA78SOL2	ZDDAE78SOL2	ZDDAE78SOL2-AB	ZDDAE78SOL2-146	ZDDAE78SOL2-AB-146

Note: Class 2 - Add suffix A191 Example: ZDDA78SOL2-A191



- Mounting options see page 44
- PCB hole pattern see page 41
- Panel cut outs see page 45

Plug 9 – 15 – 25 – 37 contacts

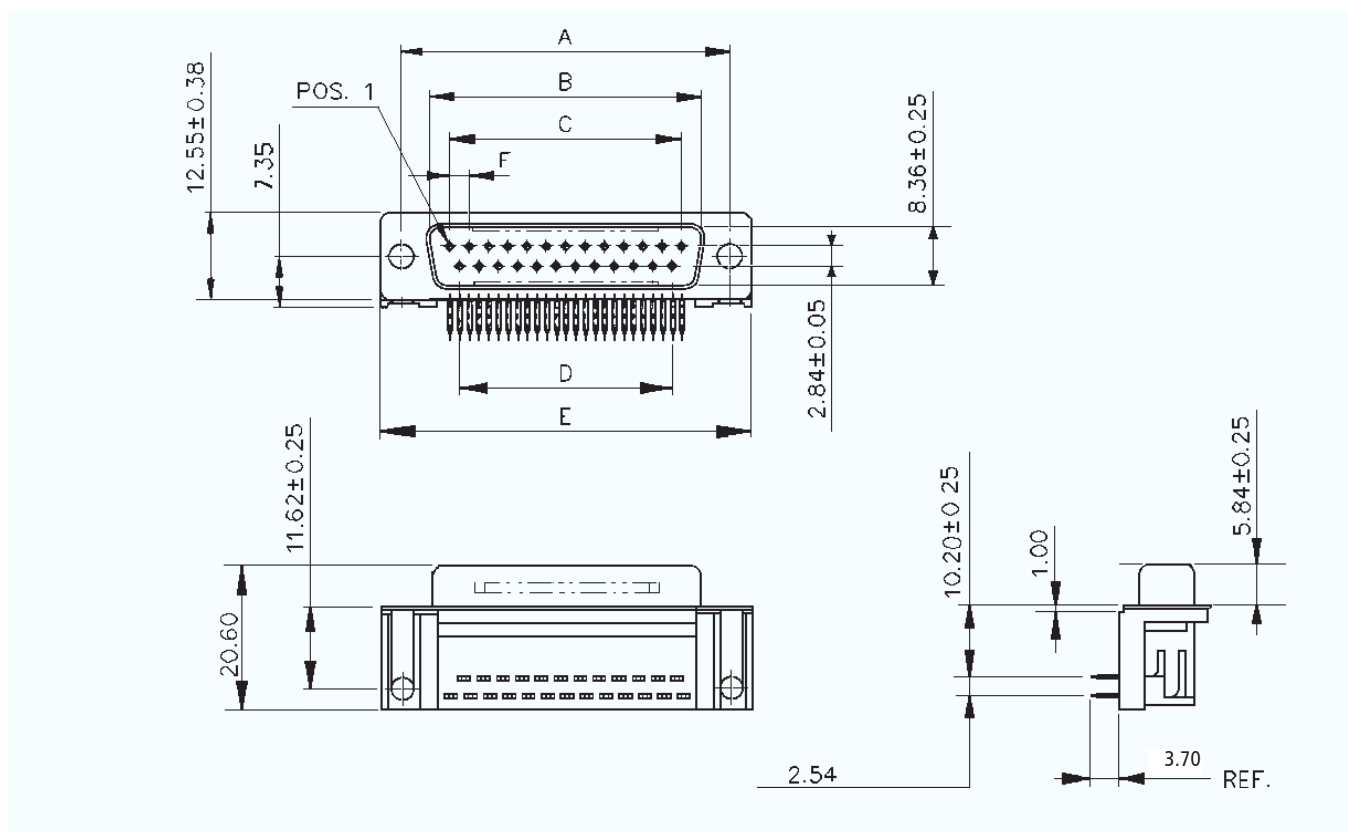


Designation

Shell size / Arrangement	Boardlock and screwlock 4-40 2B	Boardlock, threaded insert 4-40 2B
E / 9	ZDE9P-1AKN-146	ZDEL9P-1AKN-146
A / 15	ZDA15P-1AKN-146	ZDAL15P-1AKN-146
B / 25	ZDB25P-1AKN-146	ZDBL25P-1AKN-146
C / 37	ZDC37P-1AKN-146	ZDCL37P-1AKN-146

Note: Class 2 - Add suffix A191

Example: ZDE9P-1AKN-A191-146



Shell	A $\pm 0,25$	B $\pm 0,25$	C $\pm 0,13$	D $\pm 0,13$	E $\pm 0,38$	F $\pm 0,05 \pm 0.13$
E	24,99	16,92	10,96	8,22	30,89	2,74
A	33,32	25,25	19,18	16,44	39,10	2,74
B	47,04	38,96	33,24	30,47	53,09	2,77
C	63,50	55,42	49,86	47,09	69,40	2,77

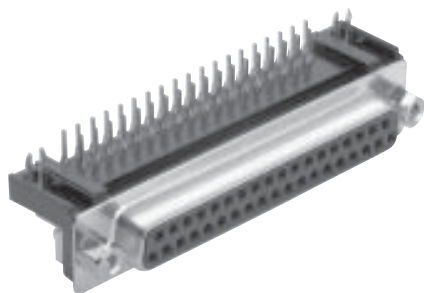
- PCB hole pattern
- Panel cutouts

see page 42

see page 45

Receptacle

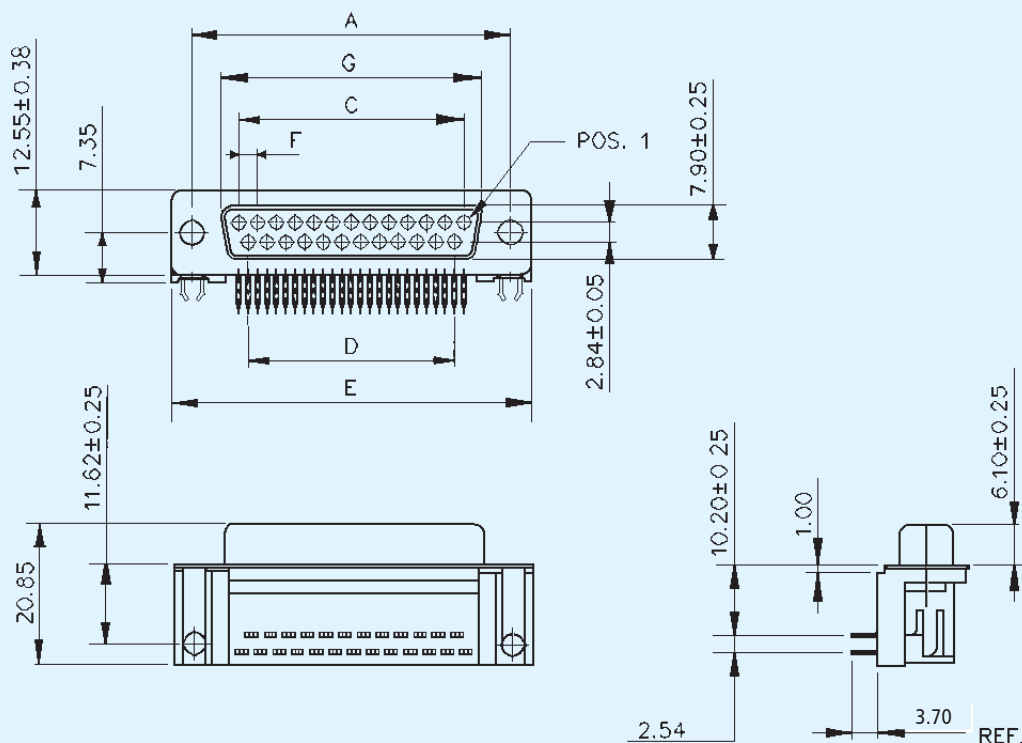
9 – 15 – 25 – 37 contacts



Designation

Shell size / Arrangement	Boardlock and screwlock 4-40 2B	Boardlock, threaded insert 4-40 2B
E / 9	ZDE9S-1AKN-146	ZDEL9S-1AKN-146
A / 15	ZDA15S-1AKN-146	ZDAL15S-1AKN-146
B / 25	ZDB25S-1AKN-146	ZDBL25S-1AKN-146
C / 37	ZDC37S-1AKN-146	ZDCL37S-1AKN-146

Note: Class 2 - Add suffix A191 Example: ZDE9S-1AKN-A191-146



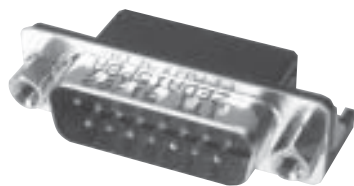
Shell	A $\pm 0,25$	C $\pm 0,13$	D $\pm 0,13$	E $\pm 0,38$	F	G $\pm 0,25$
E	24.99	10.96	8.22	30.89	2.74	16.33
A	33.32	19.18	16.44	39.10	2.74	24.66
B	47.04	33.24	30.47	53.09	2.77	38.38
C	63.50	49.86	47.09	69.40	2.77	54.84

- PCB hole pattern see page 42
- Panel cutouts see page 45

90° Solder Termination (Stamped) - Standard Footprint .318 inch

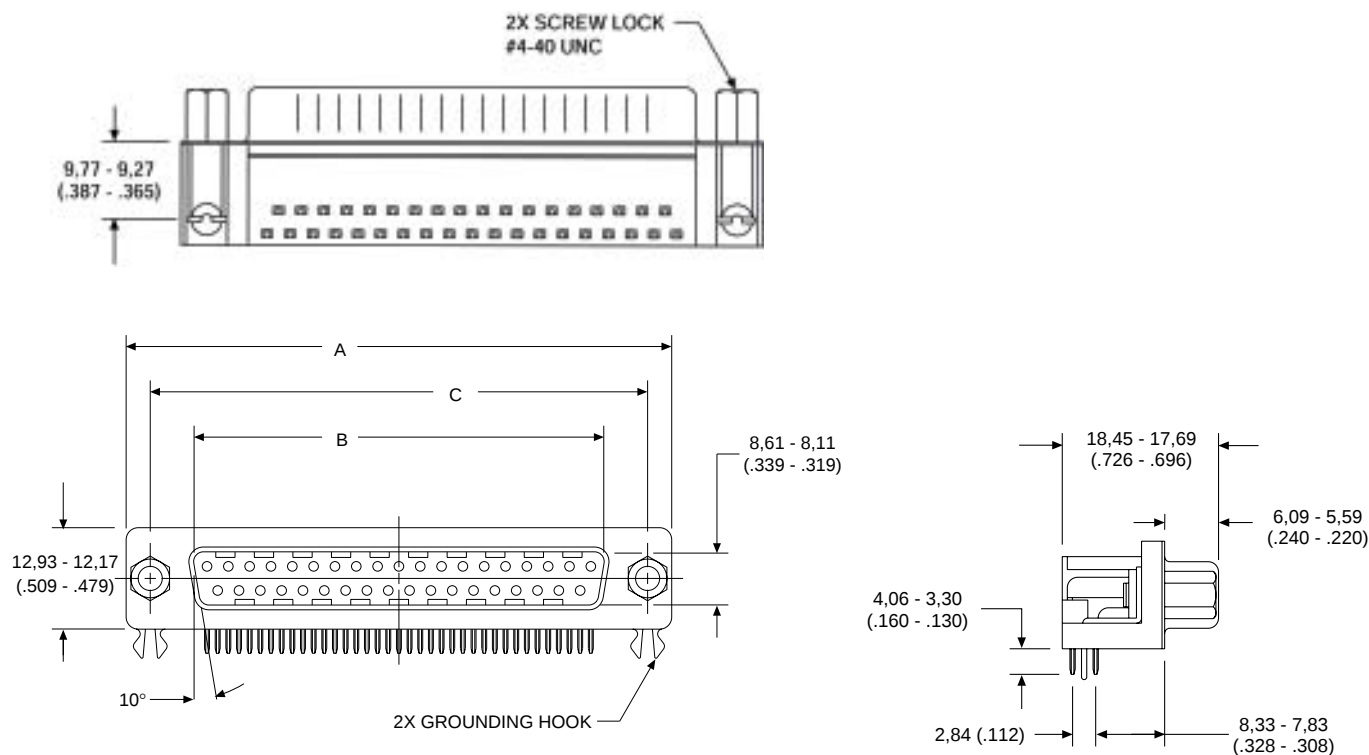
Plug

Part Numbers



For further details and information
on variations please see our website
www.ittcannon.com

Shell size	Layout	Plastic Bracket Integrated Grounding Strap, Boardlock, Threaded Insert #4-40 UNC	Plastic Bracket Integrated Grounding Strap, Boardlock, Threaded Insert #4-40 UNC
DE	9	ZEDEL9PBA	ZEDE9PBA
DA	15	ZEDAL15PBA	ZEDA15PBA
DB	25	ZEDBL25PBA	ZEDB25PBA
DC	37	ZEDCL37PBA	ZEDC37PBA
Note:		For contacts with 30 microinches of gold add -30. Example: ZEDEL9PBA-30	



Dimensions

Shell size	A ±0,38 (.15)	B ±0,25 (.010)	C ±0,25 (.010)
DE	30,89 (1.216)	16,92 (.666)	24,99 (.984)
DA	39,09 (1.539)	25,25 (.994)	33,32 (1.312)
DB	53,09 (2.090)	38,96 (1.534)	47,04 (1.852)
DC	69,40 (2.732)	55,42 (2.182)	63,50 (2.500)



ITT Industries
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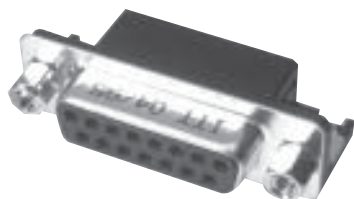
Cannon

Dimensions are shown in mm
Dimensions subject to change

90° Solder Termination (Stamped) - Standard Footprint .318 inch

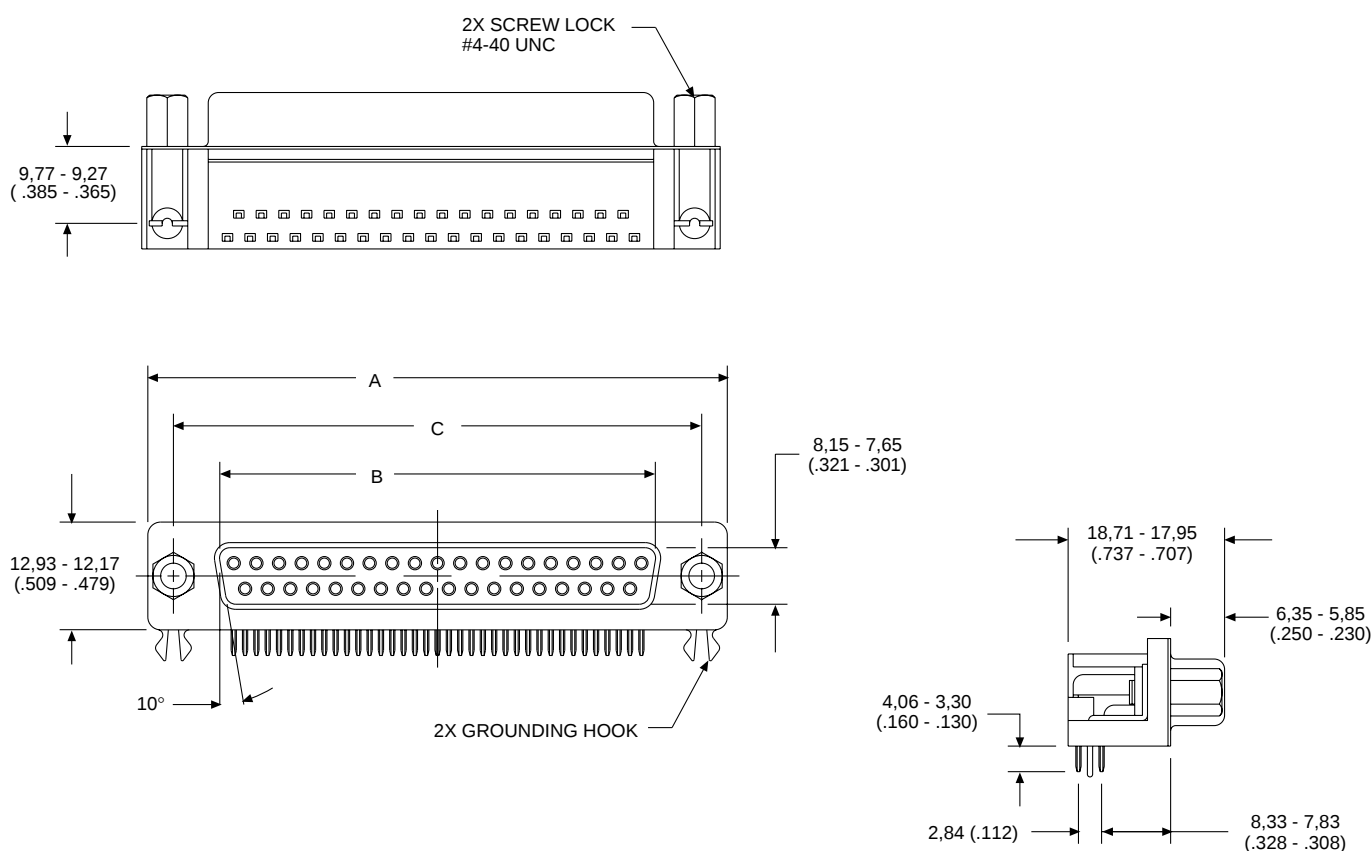
Receptacle

Part Numbers



For further details and information
on variations please see our website
www.ittcannon.com

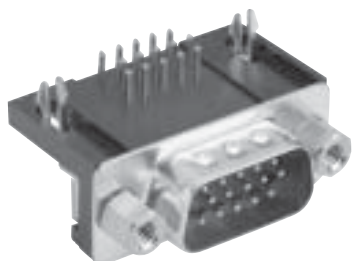
Shell size	Layout	Plastic Bracket Integrated Grounding Strap, Boardlock, Threaded Insert #4-40 UNC	Plastic Bracket Integrated Grounding Strap, Boardlock, Threaded Insert #4-40 UNC
DE	9	ZEDEL9SBA	ZEDE9SBA
DA	15	ZEDAL15SBA	ZEDA15SBA
DB	25	ZEDBL25SBA	ZEDB25SBA
DC	37	ZEDCL37SBA	ZEDC37SBA
Note:		For contacts with 30 microinches of gold add -30. Example: ZEDEL9SBA-30	



Dimensions

Shell size	A ±0,38 (.15)	B ±0,25 (.010)	C ±0,25 (.010)
DE	30,89 (1.216)	16,28 (.641)	24,99 (.984)
DA	39,09 (1.539)	24,66 (.971)	33,32 (1.312)
DB	53,09 (2.090)	38,38 (1.511)	47,04 (1.852)
DC	69,40 (2.732)	54,84 (2.159)	63,50 (2.500)

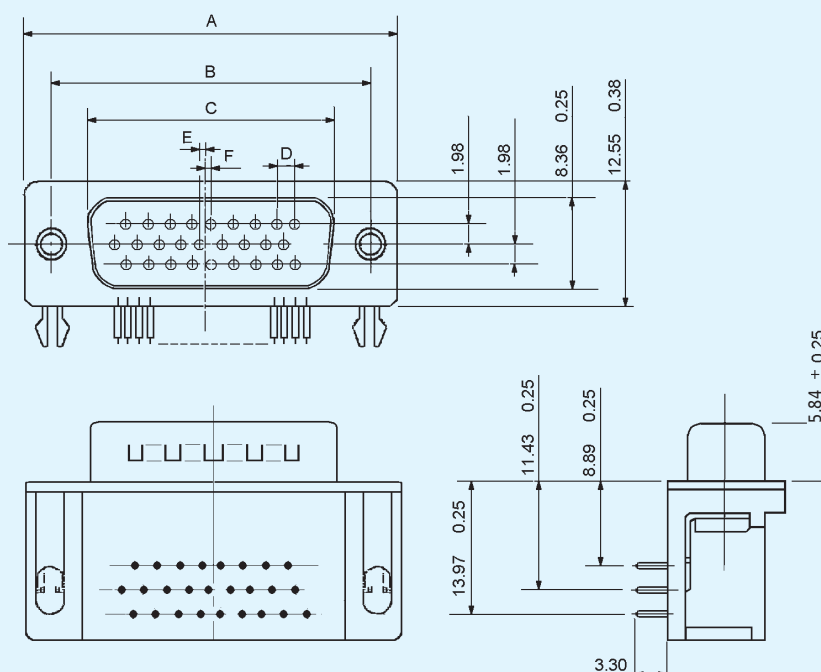
Plug 15 – 26 – 44 - 62 contacts



Designation

Shell size / Arrangement	Boardlock and screwlock 4-40 2B	Boardlock, threaded insert 4-40 2B
E / 15	ZDE15P1AKN-146	ZDEL15P1AKN-146
A / 26	ZDA26P1AKN-146	ZDAL26P1AKN-146
B / 44	ZDB44P1AKN-146	ZDBL44P1AKN-146
C / 62	ZDC62P1AKN-146	ZDCL62P1AKN-146

Note: Class 2 - Add suffix A191 Example: ZDE15P1AKN-A191-146



Shell	A ± 0,38	B ± 0,13	C ± 0,25	D ± 0,05	E	F
E	30,89	24,99	16,92	2,29	0,89	0,25
A	39,10	33,32	25,25	2,29	0,64	0,51
B	53,09	47,04	38,96	2,29	0,64	0,51
C	69,40	63,50	55,42	2,41	0,62	0,58

- PCB hole pattern see page 43
- Panel cutouts see page 45

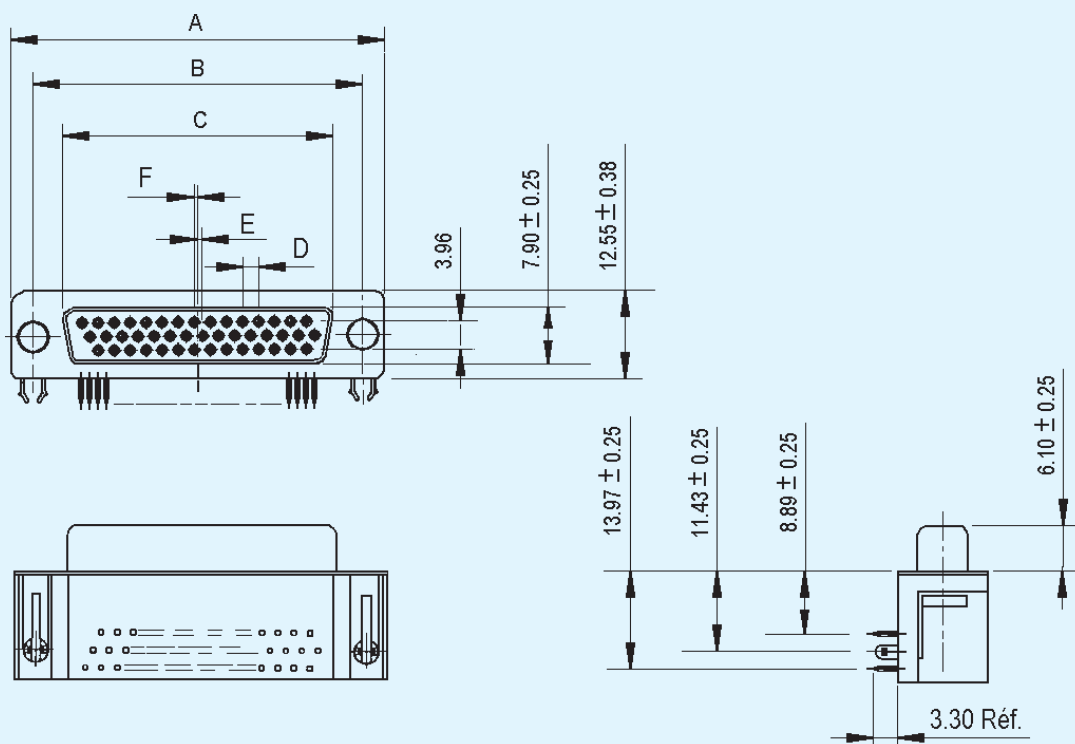
Receptacle 15 – 26 – 44 - 62 contacts

Designation



Shell size / Arrangement	Boardlock and screwlock 4-40 2B	Boardlock threaded insert 4-40 2B
E / 15	ZDE15S1AKN-146	ZDEL15S1AKN-146
A / 26	ZDA26S1AKN-146	ZDAL26S1AKN-146
B / 44	ZDB44S1AKN-146	ZDBL44S1AKN-146
C / 62	ZDC62S1AKN-146	ZDCL62S1AKN-146

Note: Class 2 - Add suffix A191 Example: ZDE15S1AKN-A191-146

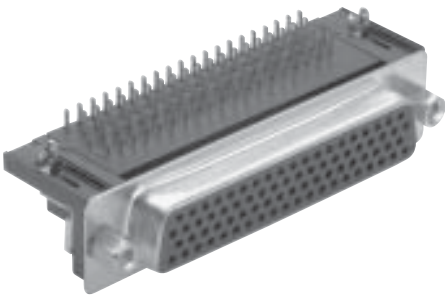


Shell	A ± 0,38	B ± 0,13	C ± 0,25	D ± 0,05	E	F
E	30,89	24,99	16,33	2,29	0,89	0,25
A	39,10	33,32	24,66	2,29	0,64	0,51
B	53,09	47,04	38,38	2,29	0,64	0,51
C	69,40	63,50	54,84	2,41	0,62	0,58

- PCB hole pattern see page 43
- Panel cutouts see page 45

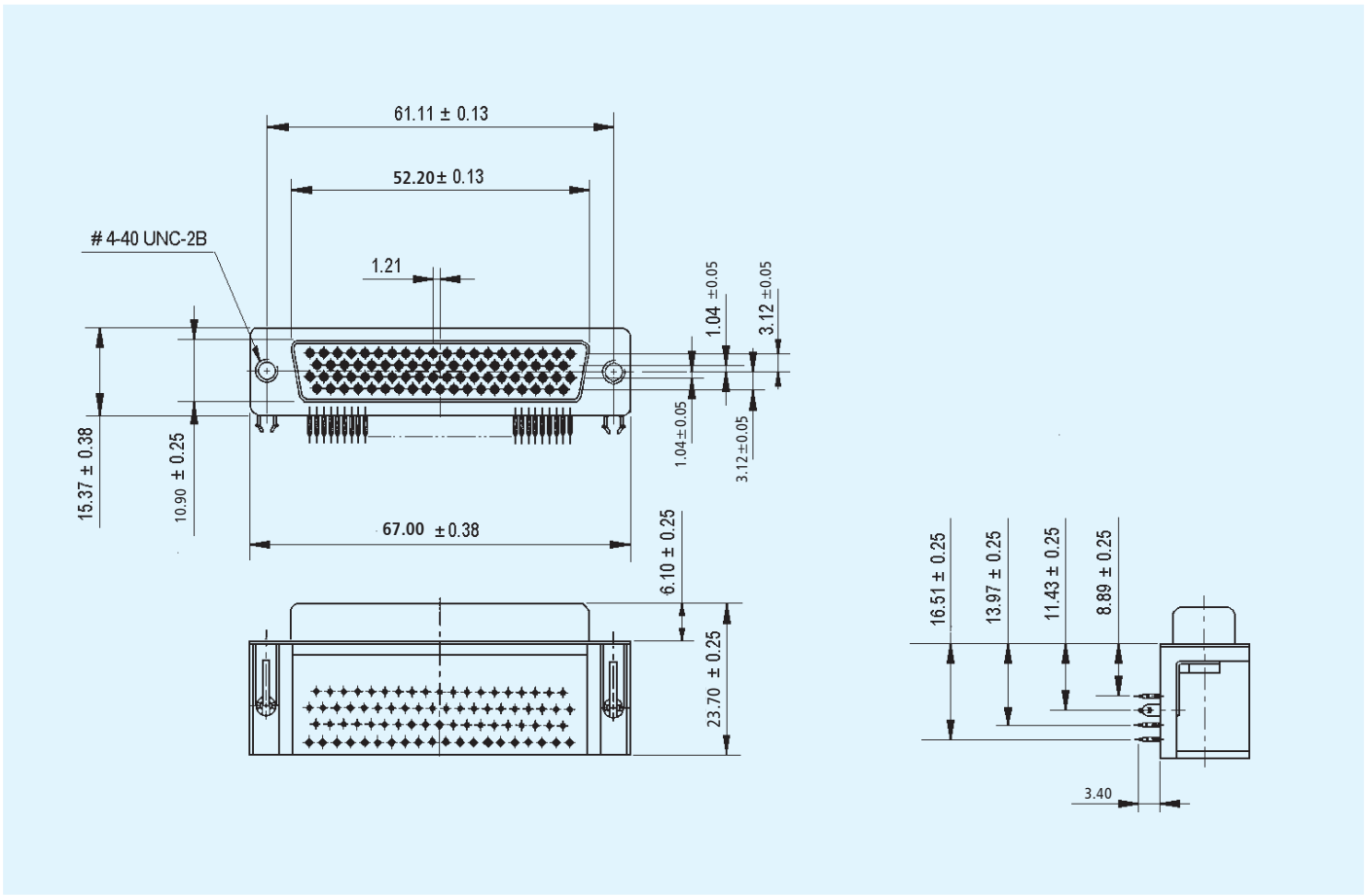
Receptacle 78 contacts

Designation



Shell size Arrangement	Boardlock and screwlock 4-40 2B	Boardlock threaded insert 4-40 2B
D / 78	ZDD78S1AKN-146	ZDDL78S1AKN-146

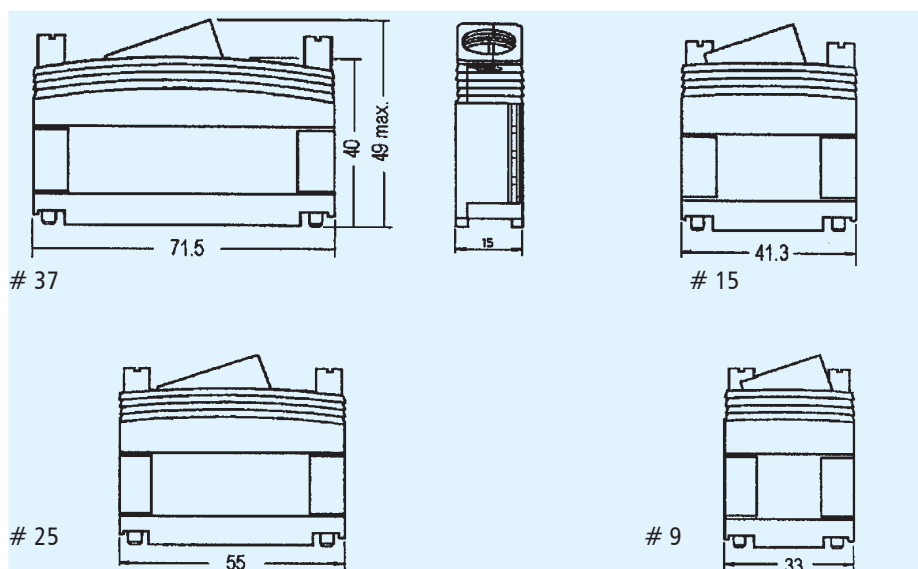
Note: Class 2 - Add suffix A191 Example: ZDD78S1AKN-A191-146



- PCB hole pattern see page 43
- Panel cutouts see page 45

Metallized plastic EMI/RFI shielded backshell

- Easy to assemble
- Slotted thumbscrews 4-40 or M3
- 30° cable exit
- Sizes available : E, A, B and C

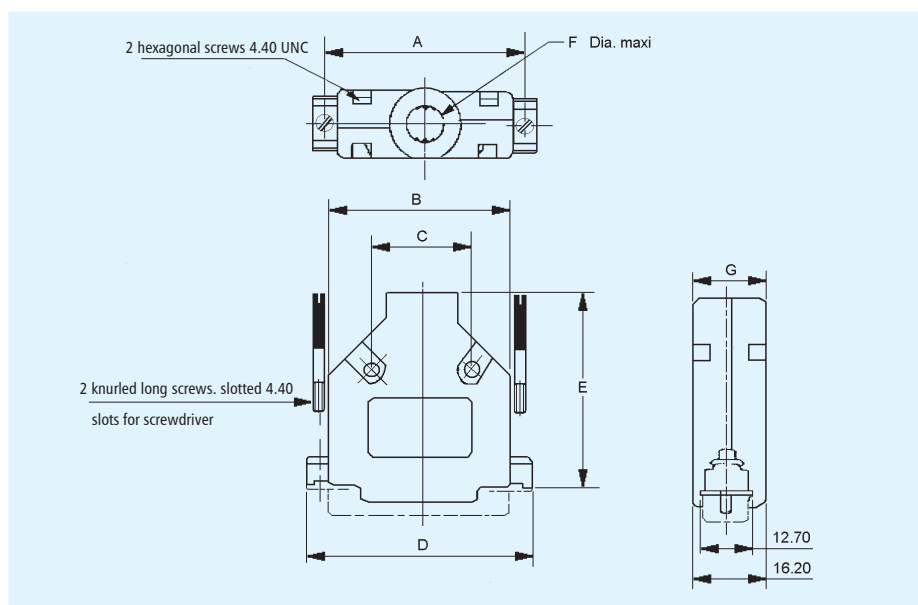


Size	Thumbscrew 4-40	Thumbscrew M3	Cable diameter
E	DE120190-456	DE120190-452	4 – 9 mm
A	DA120190-453	DA120190-449	4 – 9 mm
B	DB120190-454	DB120190-450	4 – 11 mm
C	DC120190-455	DC120190-451	4 – 11 mm

Metal EMI/RFI shielded backshell

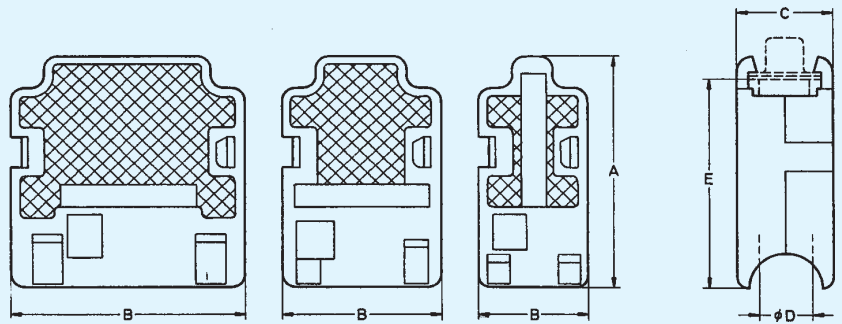


- Two half-backshells assembled together with screws
- Slotted thumbscrews 4-40
- Supplied with 5 compression inserts
- Sizes available : E, A, B and C



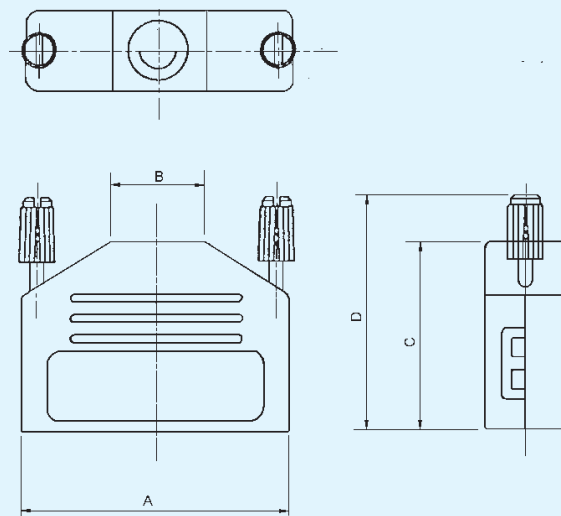
References	A ± 0,13	B	C	D ± 0,38	E	F	G	Diameter with compression inserts
DE119998-474	24,99	20,30	13,40	31,10	37,00	9,5	14,30	8,5 – 8 – 7 – 6 - 5
DA119998-475	33,32	27,80	17,95	40,20	45,10	10	14,30	8,5 – 8 – 7 – 6 - 5
DB119998-476	47,04	42,60	24,00	53,70	45,00	13	17,00	10 – 9 – 8 – 7 - 6
DC119998-477	63,50	57,80	46,80	69,20	45,00	16	14,30	14,5 – 13,5 – 11,5 – 10 – 8,5

"Click-in" plastic backshell



Reference	A	B	C	D
DE 115339-20	19,5	17,0	7,0	39,5
DA 115339-21	27,8	17,0	9,6	39,5
DB 115339-22	41,6	17,0	11,6	39,5
DC 115339-23	58,0	17,0	13,0	39,5
DD 115339-24	52,3	19,8	16,0	39,5

One-piece, hinged, snap-together plastic backshell



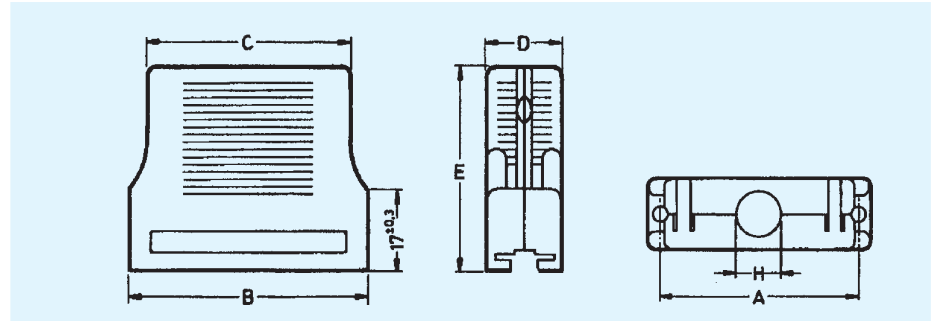
Black thermoplastic body
2 long black screws with slotted heads.
Adjustable cable clamp.

Reference	A	B	C	D
DE115339-56	33,70	17,00	33,70	48,00
DA115339-57	41,90	19,00	32,90	49,00
DB115339-58	56,10	19,00	41,30	49,00
DC115339-59	71,00	17,30	39,35	50,00
DD115339-60	72,70	35,30	44,00	54,00

Straight exit metallized plastic EMI/RFI shielded backshell



Material	Polyester	Metallized ABS polymer
Finish	-	Nickel over copper
Temperature range	-55°C / +125°C	-20°C / +80°C
Attenuation	-	-44dB @ 1000 MHz
Cable strip length	6 mm min.	6 mm min.

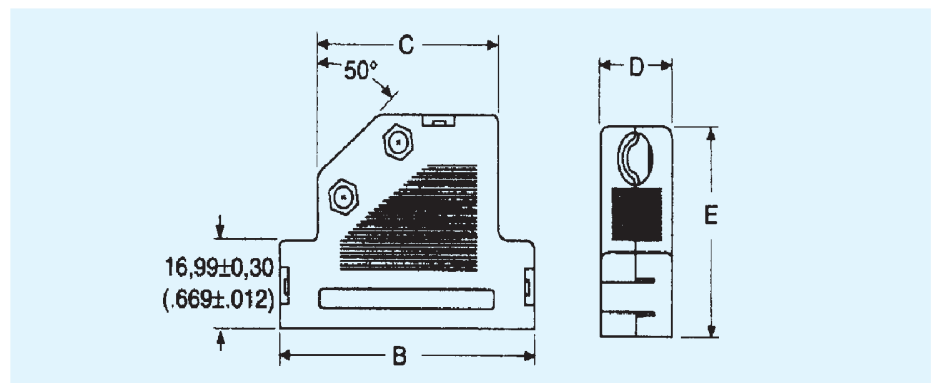


Reference Polyester	Reference Metallized ABS polymer	A ± 0,15	B ± 0,30	C ± 0,30	D ± 0,30	E ± 0,20	H max
DE121073-159	DE121073-154	24,95	30,80	23,70	16,00	36,00	6,80
DA121073-155	DA121073-150	33,30	39,10	31,80	16,00	42,00	7,80
DB121073-156	DB121073-151	47,00	53,00	45,00	16,00	42,00	10,40
DC121073-157	DC121073-152	63,45	69,30	60,30	16,00	42,00	12,22
DD121073-158	DD121073-153	61,10	66,90	58,30	19,00	42,00	13,00

50° exit metallized plastic EMI/RFI shielded backshell



Material	Polyester	Metallized ABS polymer
Finish	-	Nickel over copper
Temperature range	-55°C / +125°C	-20°C / +80°C
Attenuation	-	-44dB @ 1000 MHz
Cable strip length	6 mm min.	6 mm min.

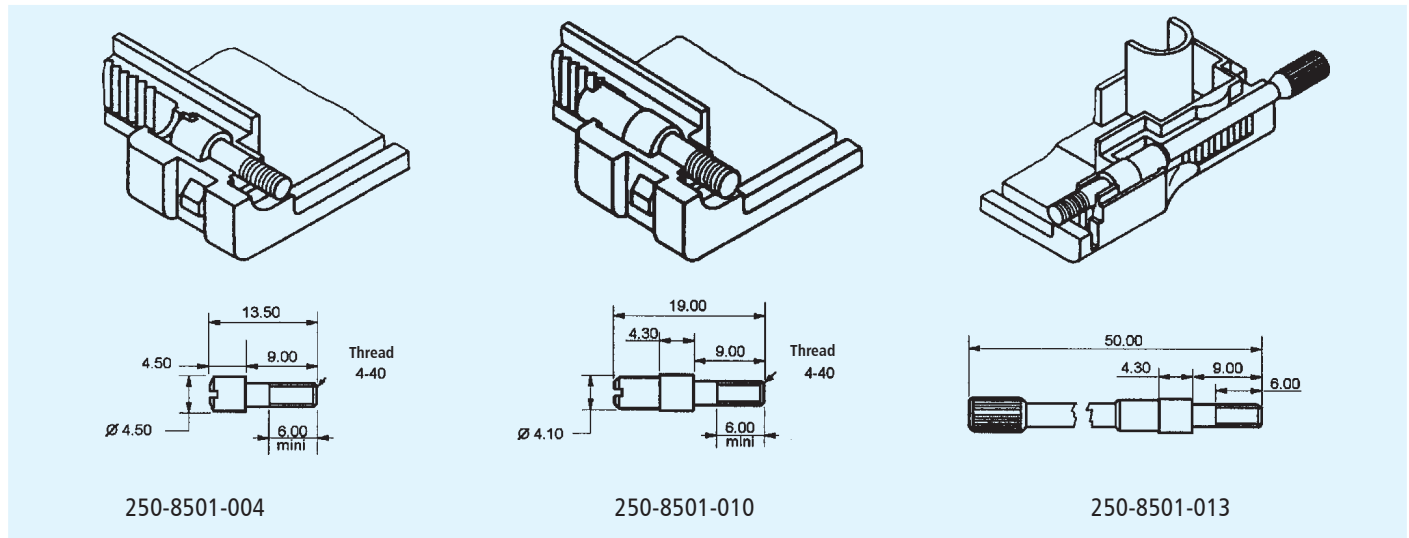


Reference Polyester	Reference Metallized ABS polymer	A ± 0,15	B ± 0,30	C ± 0,30	D ± 0,30	E ± 0,20	Cable diameter mini max	
DE121073-59	DE121073-54	25,00	36,00	22,00	16,00	36,00	3,5	7,5
DA121073-55	DA121073-50	33,30	44,30	27,30	16,00	42,00	6,5	9,0
DB121073-56	DB121073-51	47,00	58,00	41,00	16,00	42,00	6,5	11,0
DC121073-57	DC121073-52	63,50	74,50	57,50	16,00	42,00	6,5	11,0
DD121073-58	DD121073-53	61,10	72,10	55,00	19,00	42,00	9,0	13,0



Male screwlocks for backshells D*121073-****

(Brass, nickel finish)



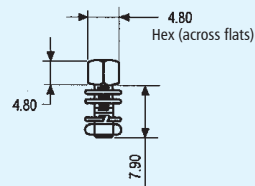
Female screwlock

(Steel, nickel finish)

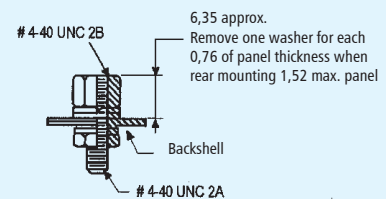
D115418-3



Front panel mount



Rear panel mount



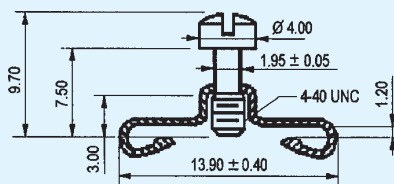
The reference is for one piece.
Packaging: Pack of 100 pieces

Note: for other finishes or packaging, please consult factory.

Male screwlock

(Steel, nickel finish)

D115284-16



Available only for the sizes 9 to 37
(standard density) and 15 to 62
(high density)

The reference is for one piece
Packaging: Pack of 100 pieces

Note: for other finishes or packaging, please consult factory

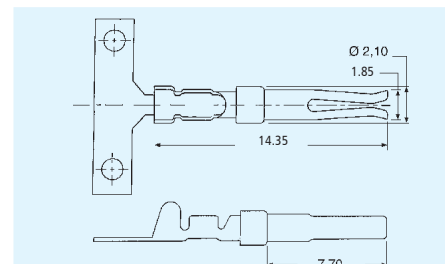
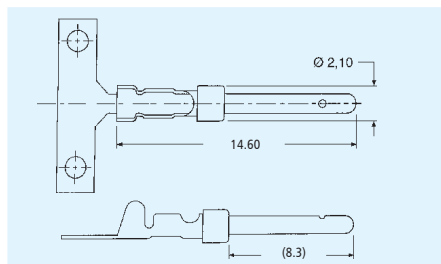
Crimp contacts

Stamped contacts with insulation support, available size 20 (standard density) or size 22 (high density). Supplied on reels, orientation to be specified when ordering.

Size 20 (reels of 5000 pieces)

Male contacts

Female contacts



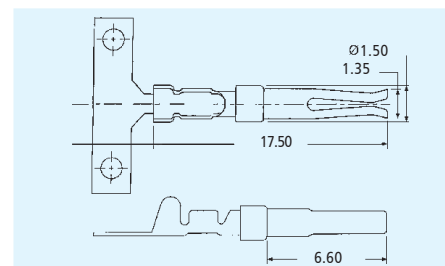
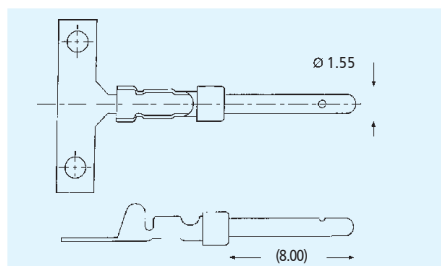
Finish	AWG 24 - 28	AWG 20 - 24
Gold flash (class 3)	980-2000-925	980-2000-924
A191 (class 2)	980-2000-946	980-2000-945

AWG 24 - 28	AWG 20 - 24
980-2000-926	980-2000-923
980-2000-944	980-2000-943

Size 22 (reels of 10000 pieces)

Male contacts

Female contacts



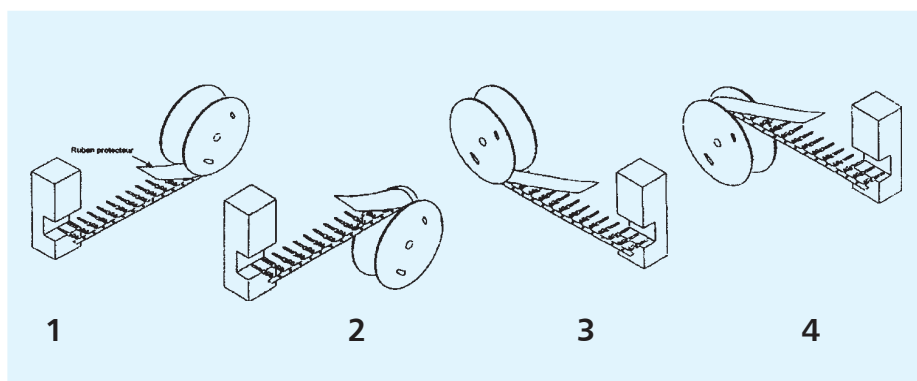
Finish	AWG 24 - 26
Gold flash (class 3)	ZD110238-1009
A191 (class 2)	ZD110238-1005

AWG 24 - 26
ZD110238-1010
ZD110238-1006

Reeling orientation

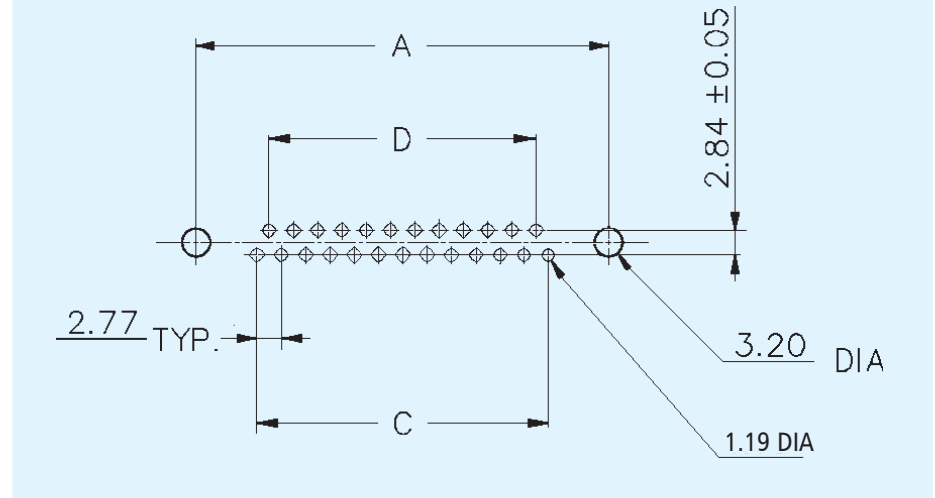
Precise the correct reeling orientation, by adding the suffix 1, 2, 3 or 4 to the reference

Example: ZD110238-1009-2



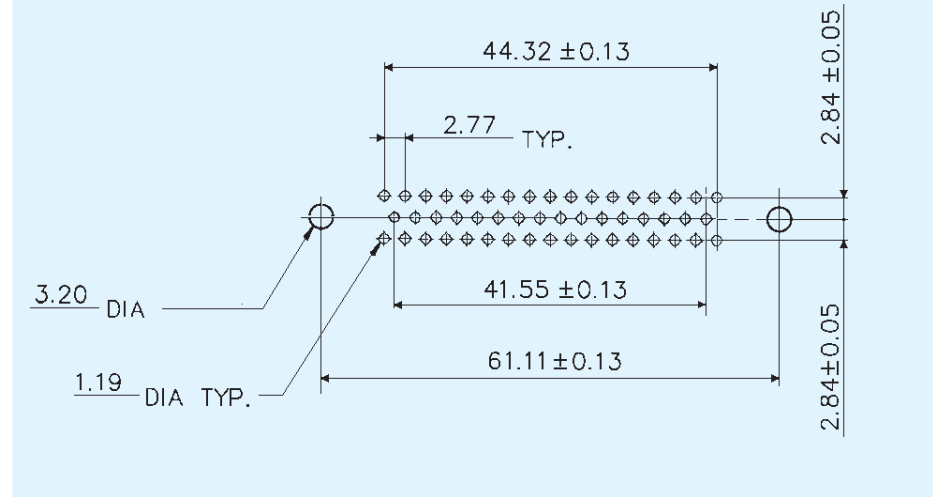
Straight PCB OL2 terminations,
standard density

Sizes 9, 15, 25, 37



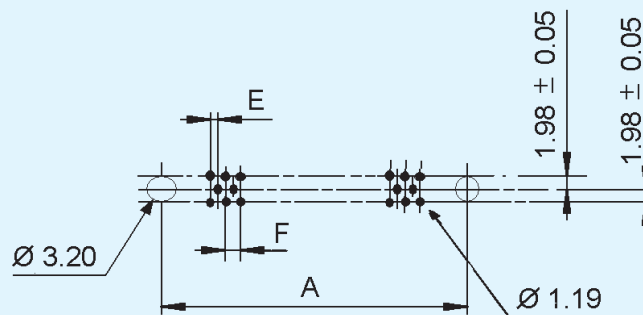
Shell size	A ± 0,13	C ± 0,13	D ± 0,13
9	24,99	10,96	8,22
15	33,32	19,18	16,44
25	47,04	33,24	30,47
37	63,50	49,86	47,09

Size 50



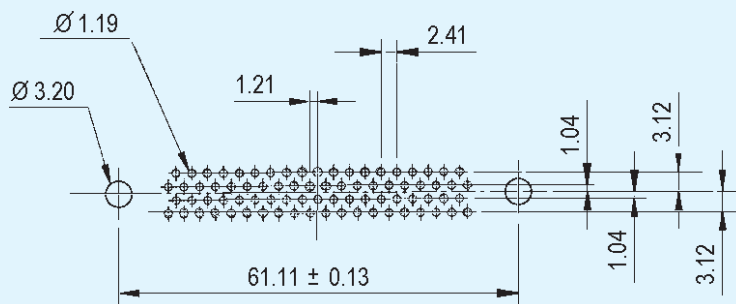
Straight PCB OL2 terminations,
high density

Sizes 15, 26, 44, 62



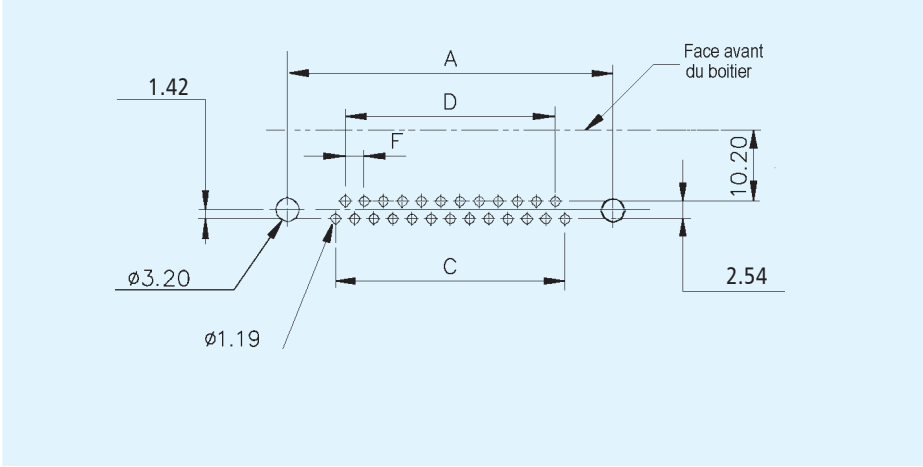
Shell size	A ± 0,13	E ± 0,05	F ± 0,05
15	24,99	1,145	2,29
26	33,32	1,145	2,29
44	47,04	1,145	2,29
62	63,50	1,205	2,41

Size 78



90° PCB 1AKN terminations,
standard density

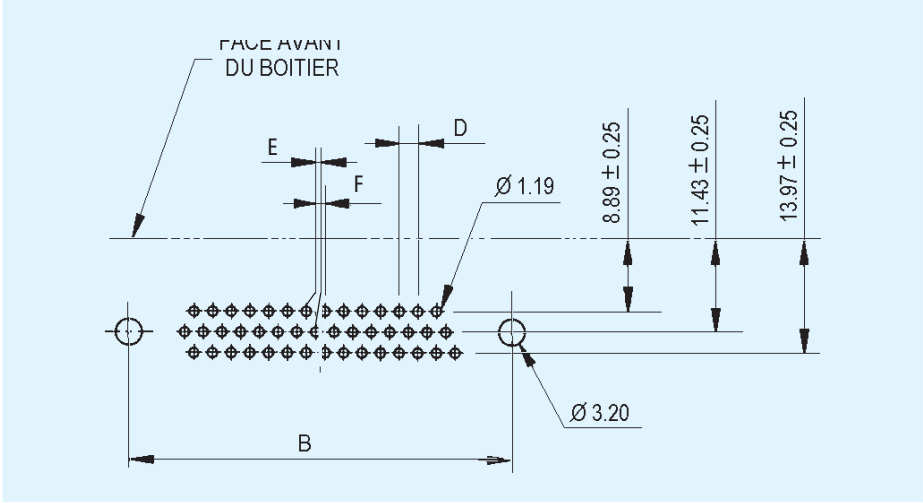
Sizes 9, 15, 25, 37



Shell size	A ± 0,13	C ± 0,13	D ± 0,13	F ± 0,10
9	24,99	10,96	8,22	2,74
15	33,32	19,18	16,44	2,74
25	47,04	33,24	30,47	2,77
37	63,50	49,86	47,09	2,77

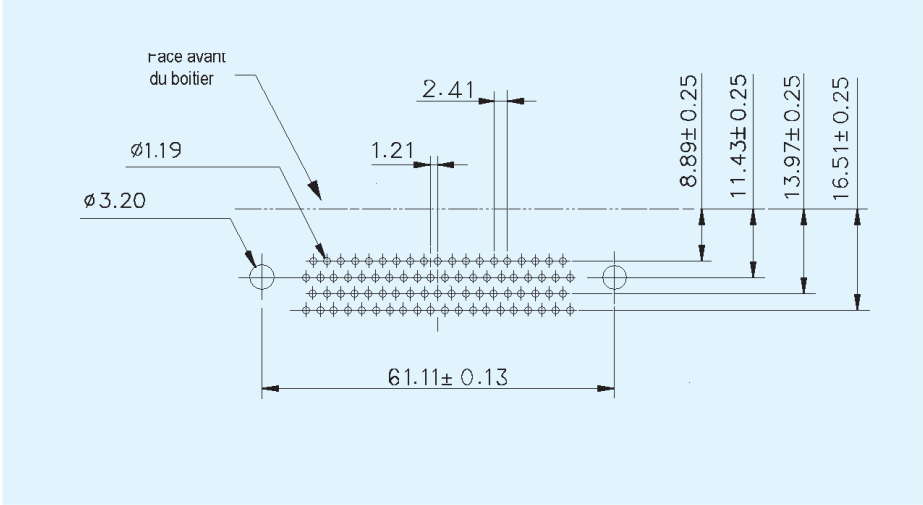
90° PCB 1AKN terminations,
high density

Sizes 15, 26, 44, 62

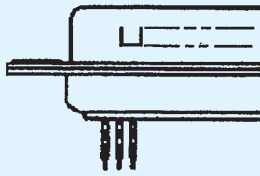


Shell size	B ± 0,13	D ± 0,05	E	F
15	24,99	2,29	0,89	0,25
26	33,32	2,29	0,64	0,51
44	47,04	2,29	0,64	0,51
62	63,50	2,41	0,62	0,58

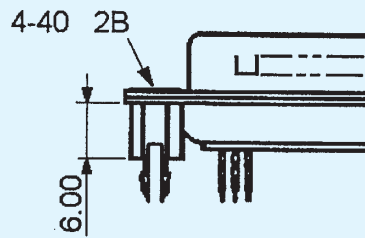
Size 78



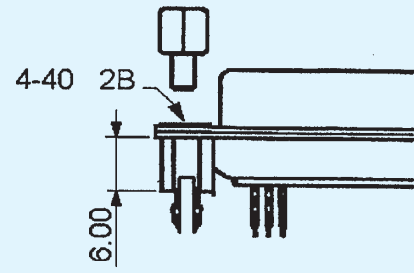
Mounting options



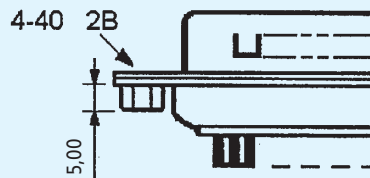
Nothing
Through hole Ø 3.05



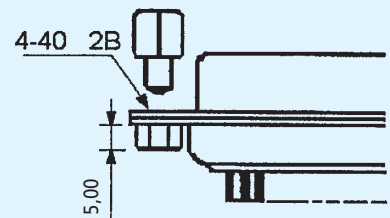
4-40 2B
E and -146
Boardlock with thread 4-40



4-40 2B
E, AB and -146
Boardlock and female screwlocks



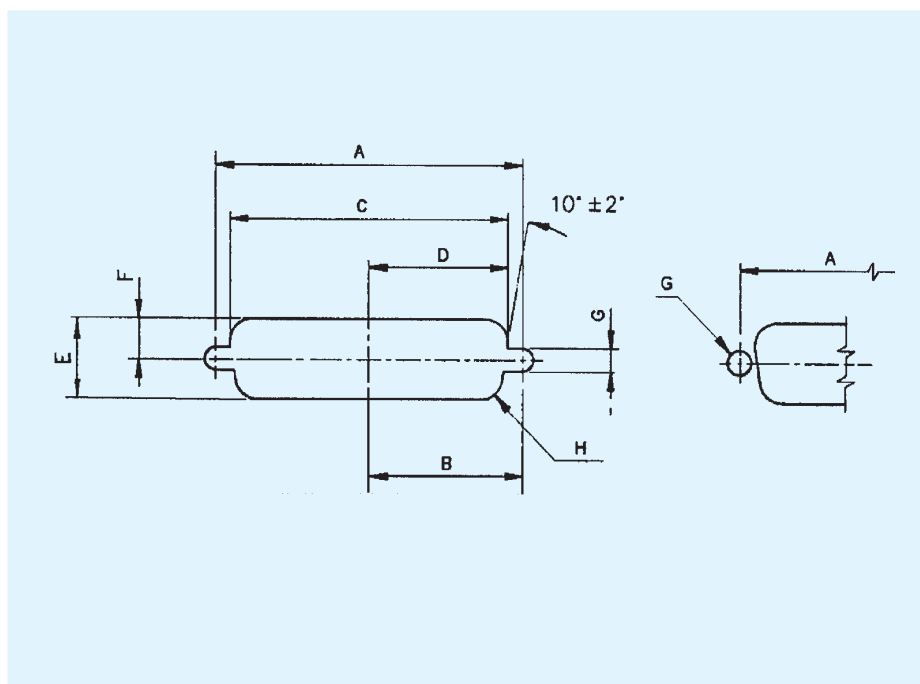
4-40 2B
E
Captive nuts 4-40 2B



4-40 2B
E and AB
Captive nuts and female screwlocks 4-40 2B

Panel cutouts

Standard and high density connectors



Shell size	Mounting method	A ± 0,13	B ± 0,25	C ± 0,13	D ± 0,13	E ± 0,38	F ± 0,25	G ± 0,25	H ± 0,25
E	Front	24,99	12,50	22,20	11,10	13,03	6,53	3,05	2,11
	Rear	24,99	12,50	20,47	10,24	11,40	5,72	3,05	3,35
A	Front	33,32	16,66	30,53	15,27	13,03	6,53	3,05	2,11
	Rear	33,32	16,66	28,80	14,40	11,40	5,72	3,05	3,35
B	Front	47,04	23,52	44,27	22,15	13,03	6,53	3,05	2,11
	Rear	47,04	23,52	42,52	21,26	11,40	5,72	3,05	3,35
C	Front	63,50	31,75	60,73	30,38	13,03	6,53	3,05	2,11
	Rear	63,50	31,75	59,08	29,54	11,40	5,72	3,05	3,35
D	Front	61,11	30,56	58,34	29,18	13,03	6,53	3,05	2,11
	Rear	61,11	30,56	56,34	28,17	11,40	5,72	3,05	3,35



ABT-607 Pneumatic Crimper

The ABT-607 is a pneumatic powered and controlled machine. It is designed for customers with moderate volume. This machine is designed to semi-automatically crimp stamped and formed contacts onto pre-stripped stranded or single conductor electrical wire. This machine will accommodate size 34 thru 12 AWG wire and is actuated by the use of a footpedal.

Machine Crimp: 800 per hour

Power Requirements: Pneumatic = 100 psi, 2 cu. ft. per min.



Products: D*A, MDSM, 75 OHM Crimp Coax

ABT-620 Semi-Automatic Crimper/Stripper

The ABT-620 Universal Cannon Crimper/Stripper is a pneumatic powered, microprocessor controlled machine. It is designed to semi-automatically strip insulation from stranded or single conductor electrical wire and attach a stamped and formed contact by crimping. The machine will accommodate 34 thru 12 AWG wire. Primary application of the machine is the termination of jacketed cable where the individual leads cannot be stripped on fully automated equipment. The ABT-620 UCCS operates automatically upon insertion of a wire or it can be switched over to foot pedal operation as desired.

Machine Strip/Crimp Rate: 1200+ per hour

Power Requirement: Electrical = 115 VAC, 60 Hz, 20 A
Pneumatic = 80 psi, 2 cu. ft. per min.



Products: D*A, MDSM,

Insertion/Extraction Tools

D*A
CIET-D*A-20-24
980-0008-135
(20 - 24 AWG)

CIET-D*A-24-26
980-0008-136
(24 - 26 AWG)

ZD-HD
CIET-22DF
980-0004-804

Hand - Crimp Tool

D*A Contacts
CCT-D*A-1 995-2000-000

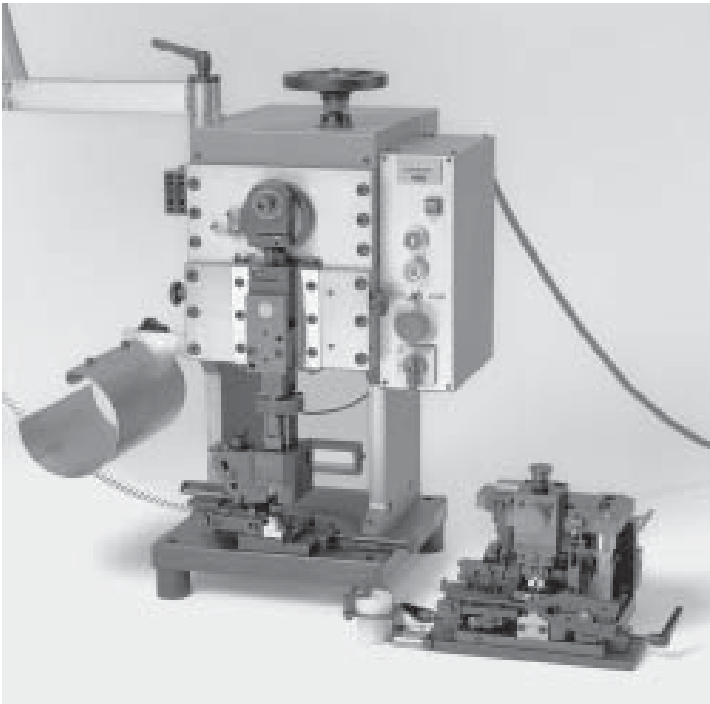
ZD HD (size 22 contacts)
CCT-22D 995-2000-022



Semi-Automatic Crimp Machine EPS 2000

Contacts are terminated fast and reliable with the crimp machine EPS 2000 from ITT Industries, Cannon. Up to 20 crimp terminations per minute can be achieved. The crimp tools can be easily exchanged for different contact types and wire sizes. No time consuming adjustments are necessary. The electrically operated machine can either be released by a foot pedal or a sensor.

Technical Data	
Lift	40 mm
Lift Time	0.3 sec
Upper and lower dead centre	continuously adjustable
Wire size to be processed	up to 6 mm ²
Drive	three phase motor, electronic brake, 0.75 kW, 380 V, 50 Hz, 3-phase
Weight	60 kg
Dimensions (without contact reel)	
Height	900 mm
Width	800 mm
Depth	500 mm



Order References

Semi-Automatic Crimp Machine
121586-5043

Semi-Automatic Stripper/Crimper
121586-5058

Quick Change Tools

Fig.	Description	Part Number
1	Stripper/Crimper	WWZ-2500
2	Crimper only	WWZ-20.100

Hand - Crimp Tool

D*A Contacts	
CCT-DA	121086-3303



Insertion/Extraction Tools

D*A	
CIET-20HDL	274-7010-000
Tool for insertion and extraction of contacts	
CIET-20-D	995-0001-695
Metal tool for extraction of contacts	

ZD-HD	
CIET-22DF	980-0004-804

Product Safety Information

THIS NOTE SHOULD BE READ IN CON-JUNCTION WITH THE PRODUCT DATA SHEET/CATALOGUE. FAILURE TO OBSERVE THE ADVICE IN THIS INFORMATION SHEET AND THE OPERATING CONDITIONS SPECIFIED IN THE PRODUCT DATA SHEET/CATALOGUE COULD RESULT IN HAZARDOUS SITUATIONS.

1. MATERIAL CONTENT AND PHYSICAL FORM

Electrical connectors do not usually contain hazardous materials. They contain conducting and non-conducting materials and can be divided into two groups.

a) Printed circuit types and low cost audio types which employ all plastic insulators and casings.

b) Rugged, Fire Barrier and High Reliability types with metal casings and either natural rubber, synthetic rubber, plastic or glass insulating materials.

Contact materials vary with type of connector and also application and are usually manufactured from either copper, copper alloys, nickel, alumel, chromel or steel. In special applications, other alloys may be specified.

2. FIRE CHARACTERISTICS AND ELECTRIC SHOCK HAZARD

There is no fire hazard when the connector is correctly wired and used within the specified parameters. Incorrect wiring or assembly of the connector or careless use of metal tools or conductive fluids, or transit damage to any of the component parts may cause electric shock or burns. Live circuits must not be broken by separating mated connectors as this may cause arcing, ionisation and burning.

Heat dissipation is greater at maximum resistance in a circuit. Hot spots may occur when resistance is raised locally by damage, e.g. cracked or deformed contacts, broken strands of wire. Local overheating may also result from the use of the incorrect application tools or from poor quality soldering or slack screw terminals. Overheating may occur if the ratings in the Product Data Sheet/Catalogue are exceeded and can cause breakdown of insulation and hence electric shock.

If heating is allowed to continue it intensifies by further increasing the local resistance through loss of temper of spring contacts, formation of oxide film on contacts and wires, and leakage currents through carbonisation of insulation and tracking paths. Fire can then result in the presence of combustible materials and this may release noxious fumes. Overheating may not be visually apparent. Burns may result from touching overheated components.

3. HANDLING

Care must be taken to avoid damage to any component parts of electrical connectors during installation and use. Although there are normally no sharp edges, care must be taken when handling certain components to avoid injury to fingers.

Electrical connectors may be damaged in transit to the customers, and damage may result in creation of hazards. Products should therefore be examined prior to installation/use and rejected if found to be damaged.

4. DISPOSAL

Incineration of certain materials may release noxious or even toxic fumes.

5. APPLICATION

Connectors with exposed contacts should not be selected for use on the current supply side of an electrical circuit, because an electric shock could result from touching exposed contacts on an unmated connector. Voltages in excess of 30 V ac or 42.5 V dc are potentially hazardous and care should be taken to ensure that such voltages can not be transmitted in any way to exposed metal parts of the connector body. The connector and wiring should be checked, before making live, to have no damage to metal parts or insulators, no solder blobs, loose strands, conducting lubricants, swarf, or any other undesired conducting particles. Insulation resistance should be checked to make certain that no low resistance joints or spurious conducting path are existing between contacts and exposed metal parts of the connector body. Further the contact resistance of the connectors should be measured within the electrical circuit in order to identify highresistances which result in excessive connector heating.

Always use the correct application tools as specified in the Data Sheet/Catalogue.

Do not permit untrained personnel to wire, assemble or tramper with connectors.

For operation voltage please see appropriate national regulations.

IMPORTANT GENERAL INFORMATION.

1. Air and creepage paths/Operating voltage.
The admissible operating voltages depend on the individual applications and the valid national and other applicable safety regulations.

For this reason the air and creepage path data are only reference values. Observe reduction of air and creepage paths due to PC board and/or harnessing.

2. Temperature

All information given are temperature limits. The operation temperature depends on the individual application.

3. Other important information

Cannon continuously endeavours to improve their products. Therefore, Cannon products may deviate from the description, technical data and shape as shown in this catalogue and data sheets.

4. Harnessing and Assembly Instructions

If applicable, our special harnessing and/or assembly instruction has to be adhered to. This is provided at request.

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