

SECTION 8

IP67 D-SUB CONNECTORS

Connector systems able to meet special demands are needed for industrial use in harsh environments.

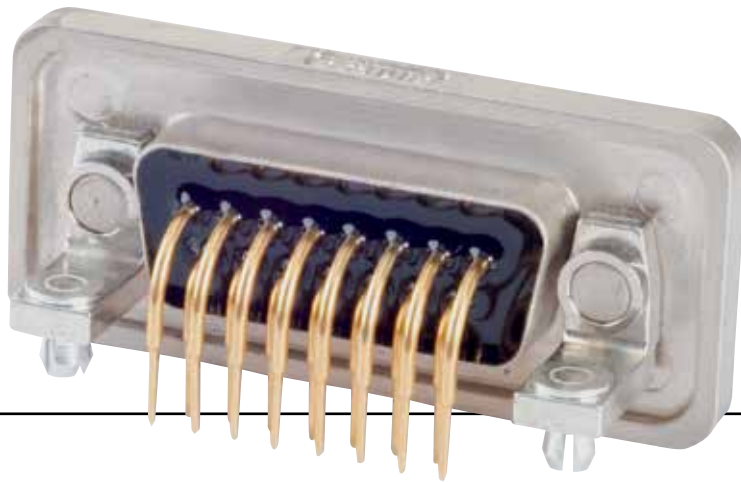
The water resistant connector system developed by CONEC is intended for applications where dust and water are factors.

The system includes D-Subminiature Connectors in standard and high density configurations as well as corresponding accessories, such as water resistant hoods and protective caps.



The type of protection is defined by IEC 60529 which also specifies the suitability of electrical components for various ambient conditions.

CONEC water resistant connectors ensure a continuously secure connection compliant with the IP67 rating. They are dustproof and protect against temporary submersion in water.



System details:

- Standard design with metal shell and O-ring
- One piece "solid body" design available for increased mechanical stresses
- Seal in the connector, water cannot penetrate into the housing
- Available for front and rear side panel mounting
- Connector without frame for cable housing
- Special threaded parts, 4-40 UNC and M 3
- Plastic materials comply with UL 94 V0
- Machined precision contacts for heavy duty usage
- Various gold plating options available
- Basic connector dimensions - without frame - in compliance with DIN 41652 / MIL-C-24308
- All conventional contact termination types available
- Various accessories, including waterproof hoods and protective caps



PART NUMBER CREATOR

6 S T D 0 9 S A M 9 9 B 3 O X

Product Line

- 6 = Shell brass tin plated with die-cast frame
- 4 = Shell brass tin plated with plastic frame or without frame
- 8* = Shell stainless steel with or without die-cast frame
- 9* = Shell stainless steel with plastic frame
- * on request

Variations

- STD = D-SUBMINIATURE, Standard
- HDD = D-SUBMINIATURE, High Density

Position for STD

- 09 = 9 pos.
- 15 = 15 pos.
- 25 = 25 pos.
- 37 = 37 pos.
- 50 = 50 pos.

Position for HDD

- 15 = 15 pos.
- 26 = 26 pos.
- 44 = 44 pos.
- 62 = 62 pos.
- 78 = 78 pos.

Contact type

- P = Plug connector
- S = Socket connector
- A = Adapter

Quality class for contacts

- A = Quality class 3 = 50 mating cycles
- B = Quality class 2 = 200 mating cycles
- C = Quality class 1 = 500 mating cycles

Termination

- M = Solder cup
- R = Solder pin, straight
- T = Solder pin, angled, .189"/4.80 mm
- U = Solder pin, angled, .276"/7.00 mm
- Z = Solder pin, angled, .465"/11.8 mm
- Y = Solder pin, angled, .220"/5.60 mm (high density design only)
- A = Adapter

Capacitance

- 99 = Without filter for STD and HDD

Mounting style

- A1 = Riveted for wire assembly shell without sealing frame
- B2 = M3 threaded insert
- B3 = 4-40 UNC threaded insert
- B4 = M3 front spacer
- B5 = 4-40 UNC front spacer
- B7 = 4-40 UNC front spacer and rear mounting stud
- B8 = M3 threaded lock for adapter
- B9 = 4-40 UNC front spacer for adapter
- E1 = M3 threaded rear spacer with PCB clip .063"/1.60 mm
- E2 = 4-40 UNC Threaded rear spacer with PCB clip, PCB 1,60 mm
- S1 = Metal bracket, M3 threaded insert
- S2 = Metal bracket, 4-40 UNC threaded insert
- S3 = Metal bracket, M3 threaded insert and PCB clip
- S4 = Metal bracket, 4-40 UNC threaded insert and PCB clip
- R1 = Metal bracket, M3 threaded insert
- R2 = Metal bracket, 4-40 UNC threaded insert
- R3 = Metal bracket, M3 threaded insert and PCB clip
- R4 = Metal bracket, 4-40 UNC threaded insert and PCB clip

- OX = Standard

PANEL MOUNTING

FRONT PANEL MOUNTING



REAR PANEL MOUNTING



The hex bolts illustrated here (4-40 UNC or M3 threads) are included in the delivery complement of every connector with a sealing frame. The length of this spacer has been selected to accommodate a panel thickness of .063"/1.6 mm such that it does not extend beyond the plug-in height. Furthermore, the hex bolts outside threads are shorter than standard hex bolts. Material: stainless steel.

IP67 D-SUB STANDARD

Solder cup – Precision machined contacts – For wire size AWG 20

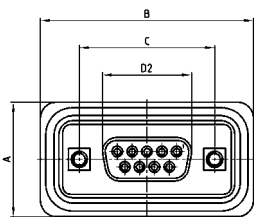


RoHS compliant - CSA listed, File No.LR115000-1 UL listed, File No. E202784

DESCRIPTION

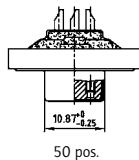
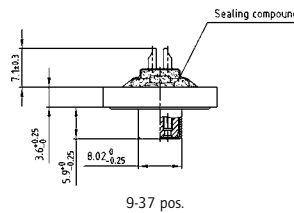
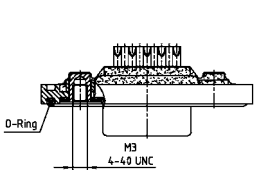
- Suitable for wire size AWG 20
- Mounting style: with 4-40 UNC or M3 threaded insert including hex locking bolt
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (stainless steel available on request)
- Nickel plated die-cast frame (Black plastic frame on request)

SOCKET CONNECTOR

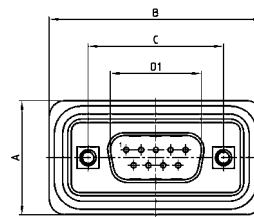


No. of pos.	A +0.3	B +0.3	C	D2 -0.25
09	21.10	39.40	25.00 ^{+0.12}	16.46
15	21.10	47.70	33.30 ^{+0.15} _{-0.10}	24.79
25	21.10	61.40	47.04 ^{+0.13}	38.50
37	21.10	77.90	63.50 ^{+0.13}	54.96
50	23.90	75.50	61.10 ^{+0.14} _{-0.11}	52.55

Mounting style: Threaded insert

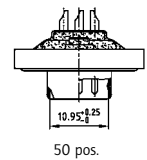
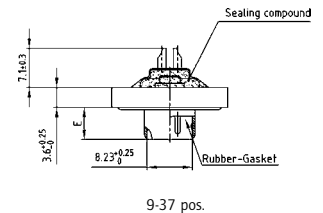
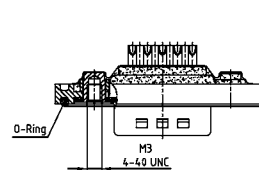


PLUG CONNECTOR



No. of pos.	A +0.3	B +0.3	C	D1 -0.25	E -0.30
9	21.10	39.40	25.00 ^{+0.12} _{-0.12}	16.79	5.82
15	21.10	47.70	33.30 ^{+0.15} _{-0.10}	25.12	5.82
25	21.10	61.40	47.04 ^{+0.13}	38.84	5.69
37	21.10	77.90	63.50 ^{+0.13}	55.30	5.69
50	23.90	75.50	61.10 ^{+0.14} _{-0.11}	52.68	5.69

Mounting style: Threaded insert



ORDER DATA

SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
09	M3 Threaded insert	6STD09SAM99B20X
15	M3 Threaded insert	6STD15SAM99B20X
25	M3 Threaded insert	6STD25SAM99B20X
37	M3 Threaded insert	6STD37SAM99B20X
50	M3 Threaded insert	6STD50SAM99B20X
09	4-40 UNC Threaded insert	6STD09SAM99B30X
15	4-40 UNC Threaded insert	6STD15SAM99B30X
25	4-40 UNC Threaded insert	6STD25SAM99B30X
37	4-40 UNC Threaded insert	6STD37SAM99B30X
50	4-40 UNC Threaded insert	6STD50SAM99B30X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
09	M3 Threaded insert	6STD09PAM99B20X
15	M3 Threaded insert	6STD15PAM99B20X
25	M3 Threaded insert	6STD25PAM99B20X
37	M3 Threaded insert	6STD37PAM99B20X
50	M3 Threaded insert	6STD50PAM99B20X
09	4-40 UNC Threaded insert	6STD09PAM99B30X
15	4-40 UNC Threaded insert	6STD15PAM99B30X
25	4-40 UNC Threaded insert	6STD25PAM99B30X
37	4-40 UNC Threaded insert	6STD37PAM99B30X
50	4-40 UNC Threaded insert	6STD50PAM99B30X

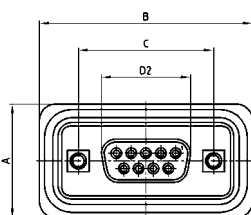
IP67 D-SUB STANDARD

Solder pin – Straight – Precision machined contacts



RoHS compliant - CSA listed, File No.LR115000-1 UL listed, File No. E202784

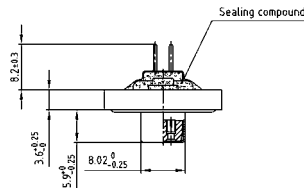
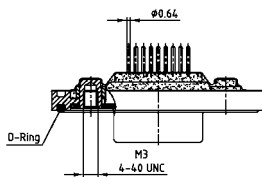
SOCKET CONNECTOR



No. of pos.	A +0.3	B +0.3	C	D2 -0.25
09	21.10	39.40	25.00 ±0.12	16.46
15	21.10	47.70	33.30 ±0.15 / ±0.10	24.79
25	21.10	61.40	47.04 ±0.13	38.50
37	21.10	77.90	63.50 ±0.13	54.96
50	23.90	75.50	61.10 ±0.14 / ±0.11	52.55

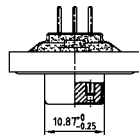
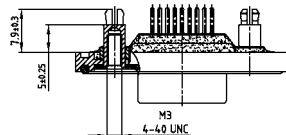
PCB-Layout: Kat1kFVA / Kat1kFUA

Mounting style: Threaded insert



9-37 pos.

Mounting style:
Threaded rear spacer with PCB clip

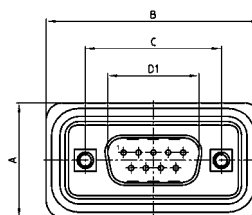


50 pos.

DESCRIPTION

- Mounting styles:
 - with 4-40 UNC or M3 threaded insert including hex locking bolt
 - with 4-40 UNC or M3 threaded rear spacer and PCB clip including hex locking bolt
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (stainless steel available on request)
- Nickel plated die-cast frame (Black plastic frame on request)

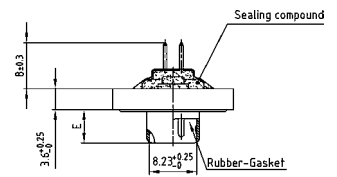
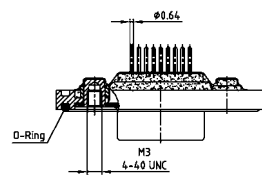
PLUG CONNECTOR



No. of pos.	A +0.3	B +0.3	C	D1 -0.25	E -0.30
9	21.10	39.40	25.00 ±0.12 / ±0.13	16.79	5.82
15	21.10	47.70	33.30 ±0.15 / ±0.10	25.12	5.82
25	21.10	61.40	47.04 ±0.13	38.84	5.69
37	21.10	77.90	63.50 ±0.13	55.30	5.69
50	23.90	75.50	61.10 ±0.14 / ±0.11	52.68	5.69

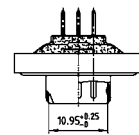
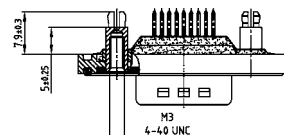
PCB-Layout: Kat1kFVA / Kat1kFUA

Mounting style: Threaded insert



9-37 pos.

Mounting style:
Threaded rear spacer with PCB clip



50 pos.

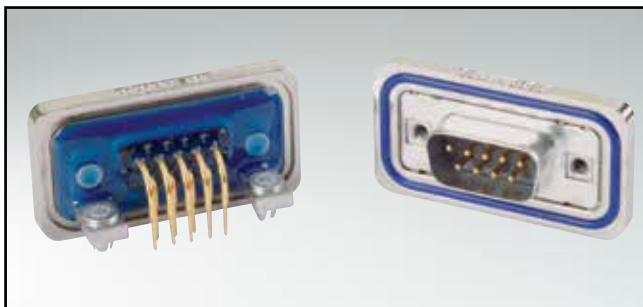
ORDER DATA

SOCKET CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number	No. of pos.	Mounting style	Part Number
09	M3 Threaded insert	6STD09SAR99B20X	09	M3 Threaded insert	6STD09PAR99B20X
15	M3 Threaded insert	6STD15SAR99B20X	15	M3 Threaded insert	6STD15PAR99B20X
25	M3 Threaded insert	6STD25SAR99B20X	25	M3 Threaded insert	6STD25PAR99B20X
37	M3 Threaded insert	6STD37SAR99B20X	37	M3 Threaded insert	6STD37PAR99B20X
50	M3 Threaded insert	6STD50SAR99B20X	50	M3 Threaded insert	6STD50PAR99B20X
09	4-40 UNC Threaded insert	6STD09SAR99B30X	09	4-40 UNC Threaded insert	6STD09PAR99B30X
15	4-40 UNC Threaded insert	6STD15SAR99B30X	15	4-40 UNC Threaded insert	6STD15PAR99B30X
25	4-40 UNC Threaded insert	6STD25SAR99B30X	25	4-40 UNC Threaded insert	6STD25PAR99B30X
37	4-40 UNC Threaded insert	6STD37SAR99B30X	37	4-40 UNC Threaded insert	6STD37PAR99B30X
50	4-40 UNC Threaded insert	6STD50SAR99B30X	50	4-40 UNC Threaded insert	6STD50PAR99B30X
09	M3 Threaded rear spacer PCB clip	6STD09SAR99E10X	09	M3 Threaded rear spacer PCB clip	6STD09PAR99E10X
15	M3 Threaded rear spacer PCB clip	6STD15SAR99E10X	15	M3 Threaded rear spacer PCB clip	6STD15PAR99E10X
25	M3 Threaded rear spacer PCB clip	6STD25SAR99E10X	25	M3 Threaded rear spacer PCB clip	6STD25PAR99E10X
37	M3 Threaded rear spacer PCB clip	6STD37SAR99E10X	37	M3 Threaded rear spacer PCB clip	6STD37PAR99E10X
50	M3 Threaded rear spacer PCB clip	6STD50SAR99E10X	50	M3 Threaded rear spacer PCB clip	6STD50PAR99E10X
09	4-40 UNC Threaded rear spacer PCB clip	6STD09SAR99E20X	09	4-40 UNC Threaded rear spacer PCB clip	6STD09PAR99E20X
15	4-40 UNC Threaded rear spacer PCB clip	6STD15SAR99E20X	15	4-40 UNC Threaded rear spacer PCB clip	6STD15PAR99E20X
25	4-40 UNC Threaded rear spacer PCB clip	6STD25SAR99E20X	25	4-40 UNC Threaded rear spacer PCB clip	6STD25PAR99E20X
37	4-40 UNC Threaded rear spacer PCB clip	6STD37SAR99E20X	37	4-40 UNC Threaded rear spacer PCB clip	6STD37PAR99E20X
50	4-40 UNC Threaded rear spacer PCB clip	6STD50SAR99E20X	50	4-40 UNC Threaded rear spacer PCB clip	6STD50PAR99E20X

PCB clip .122"/3.1 ± .004"/0.10 mm hole diameter and .063"/1.6 mm circuit board thickness

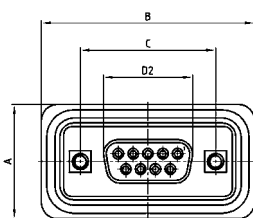
IP67 D-SUB STANDARD

Solder pin – Angled – .189"/4.8 mm – Precision machined contacts – Metal bracket



RoHS compliant - CSA listed, File No.LR115000-1 UL listed, File No. E202784

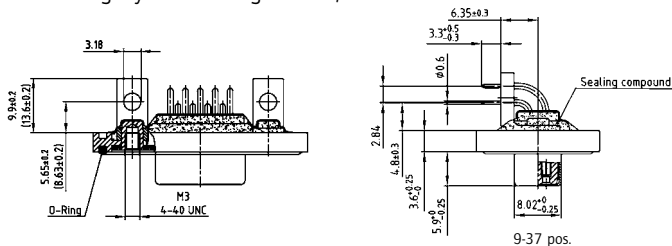
SOCKET CONNECTOR



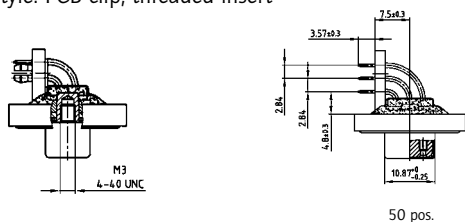
No. of pos.	A +0.3	B +0.3	C	D2 -0.25
09	21.10	39.40	25.00 ±0.12	16.46
15	21.10	47.70	33.30 ±0.15	24.79
25	21.10	61.40	47.04 ±0.13	38.50
37	21.10	77.90	63.50 ±0.13	54.96
50	23.90	75.50	61.10 ±0.14	52.55

PCB-Layout: Kat1kGSA

Mounting style: Mounting bracket, threaded insert



Mounting style: PCB clip, threaded insert



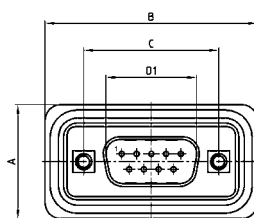
ORDER DATA

SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
09	M3 Threaded insert	6STD09SAT99S10X
15	M3 Threaded insert	6STD15SAT99S10X
25	M3 Threaded insert	6STD25SAT99S10X
37	M3 Threaded insert	6STD37SAT99S10X
50	M3 Threaded insert	6STD50SAT99S10X
09	4-40 UNC Threaded insert	6STD09SAT99S20X
15	4-40 UNC Threaded insert	6STD15SAT99S20X
25	4-40 UNC Threaded insert	6STD25SAT99S20X
37	4-40 UNC Threaded insert	6STD37SAT99S20X
50	4-40 UNC Threaded insert	6STD50SAT99S20X
09	PCB clip / M3 Threaded insert	6STD09SAT99S30X
15	PCB clip / M3 Threaded insert	6STD15SAT99S30X
25	PCB clip / M3 Threaded insert	6STD25SAT99S30X
37	PCB clip / M3 Threaded insert	6STD37SAT99S30X
50	PCB clip / M3 Threaded insert	6STD50SAT99S30X
09	PCB clip / 4-40 UNC Threaded insert	6STD09SAT99S40X
15	PCB clip / 4-40 UNC Threaded insert	6STD15SAT99S40X
25	PCB clip / 4-40 UNC Threaded insert	6STD25SAT99S40X
37	PCB clip / 4-40 UNC Threaded insert	6STD37SAT99S40X
50	PCB clip / 4-40 UNC Threaded insert	6STD50SAT99S40X

DESCRIPTION

- Mounting styles:
 - with mounting bracket and 4-40 UNC or M3 threaded insert including hex locking bolt
 - with mounting bracket, PCB clip and M3 or UNC 4-40 threaded insert including hex locking bolt
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (stainless steel available on request)
- Nickel plated die-cast frame (Black plastic frame on request)

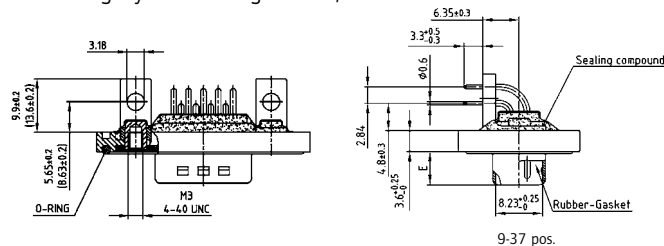
PLUG CONNECTOR



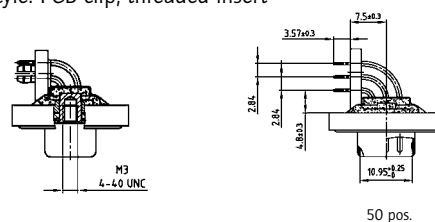
No. of pos.	A +0.3	B +0.3	C	D1 -0.25	E -0.30
9	21.10	39.40	25.00 ±0.12	16.79	5.82
15	21.10	47.70	33.30 ±0.15	25.12	5.82
25	21.10	61.40	47.04 ±0.13	38.84	5.69
37	21.10	77.90	63.50 ±0.13	55.30	5.69
50	23.90	75.50	61.10 ±0.14	52.68	5.69

PCB-Layout: Kat1kGSA

Mounting style: Mounting bracket, threaded insert



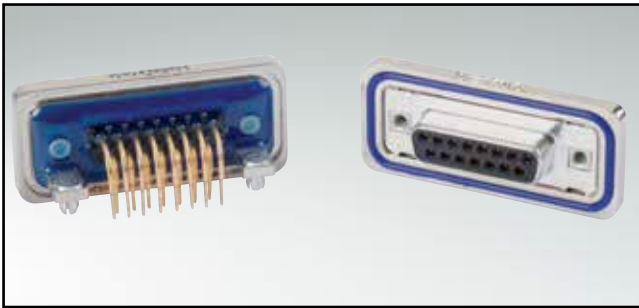
Mounting style: PCB clip, threaded insert



PCB clip .122"/3.1 ± .004"/0.10 mm hole diameter and .063"/1.6 mm circuit board thickness

IP67 D-SUB STANDARD

Solder pin – Angled – .276"/7.0 mm – Precision machined contacts – Metal bracket

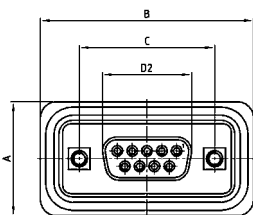


RoHS compliant - CSA listed, File No.LR115000-1 UL listed, File No. E202784

DESCRIPTION

- Mounting styles:
 - with mounting bracket and 4-40 UNC or M3 threaded insert including hex locking bolt
 - with mounting bracket, PCB clip and M3 or UNC 4-40 threaded insert including hex locking bolt
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (stainless steel available on request)
- Nickel plated die-cast frame (Black plastic frame on request)

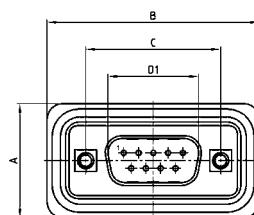
SOCKET CONNECTOR



No. of pos.	A +0.3	B +0.3	C	D2 -0.25
09	21.10	39.40	25.00 +0.12	16.46
15	21.10	47.70	33.30 +0.15 / -0.10	24.79
25	21.10	61.40	47.04 +0.13	38.50
37	21.10	77.90	63.50 +0.13	54.96
50	23.90	75.50	61.10 +0.14 / -0.11	52.55

PCB-Layout: Kat1kGTA

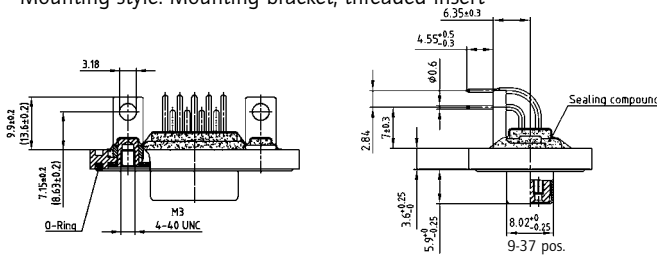
PLUG CONNECTOR



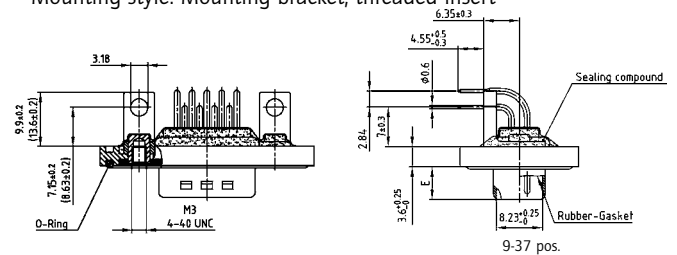
No. of pos.	A +0.3	B +0.3	C	D1 -0.25	E -0.30
9	21.10	39.40	25.00 +0.12 / -0.13	16.79	5.82
15	21.10	47.70	33.30 +0.15 / -0.10	25.12	5.82
25	21.10	61.40	47.04 +0.13	38.84	5.69
37	21.10	77.90	63.50 +0.13	55.30	5.69
50	23.90	75.50	61.10 +0.14 / -0.11	52.68	5.69

PCB-Layout: Kat1kGTA

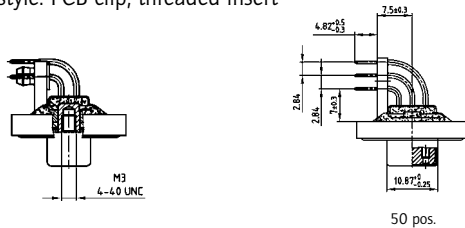
Mounting style: Mounting bracket, threaded insert



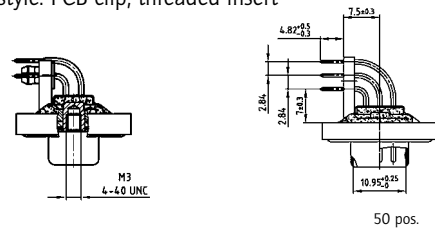
Mounting style: Mounting bracket, threaded insert



Mounting style: PCB clip, threaded insert



Mounting style: PCB clip, threaded insert



ORDER DATA

SOCKET CONNECTOR

No. of pos.	Mounting style	Part Number
09	M3 Threaded insert	6STD09SAU99R10X
15	M3 Threaded insert	6STD15SAU99R10X
25	M3 Threaded insert	6STD25SAU99R10X
37	M3 Threaded insert	6STD37SAU99R10X
50	M3 Threaded insert	6STD50SAU99R10X
09	4-40 UNC Threaded insert	6STD09SAU99R20X
15	4-40 UNC Threaded insert	6STD15SAU99R20X
25	4-40 UNC Threaded insert	6STD25SAU99R20X
37	4-40 UNC Threaded insert	6STD37SAU99R20X
50	4-40 UNC Threaded insert	6STD50SAU99R20X
09	PCB clip / M3 Threaded insert	6STD09SAU99R30X
15	PCB clip / M3 Threaded insert	6STD15SAU99R30X
25	PCB clip / M3 Threaded insert	6STD25SAU99R30X
37	PCB clip / M3 Threaded insert	6STD37SAU99R30X
50	PCB clip / M3 Threaded insert	6STD50SAU99R30X
09	PCB clip / 4-40 UNC Threaded insert	6STD09SAU99R40X
15	PCB clip / 4-40 UNC Threaded insert	6STD15SAU99R40X
25	PCB clip / 4-40 UNC Threaded insert	6STD25SAU99R40X
37	PCB clip / 4-40 UNC Threaded insert	6STD37SAU99R40X
50	PCB clip / 4-40 UNC Threaded insert	6STD50SAU99R40X

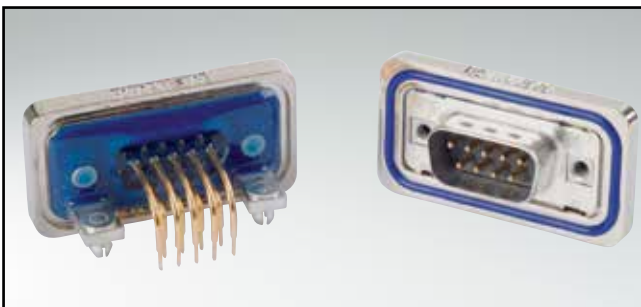
PLUG CONNECTOR

No. of pos.	Mounting style	Part Number
09	M3 Threaded insert	6STD09PAU99R10X
15	M3 Threaded insert	6STD15PAU99R10X
25	M3 Threaded insert	6STD25PAU99R10X
37	M3 Threaded insert	6STD37PAU99R10X
50	M3 Threaded insert	6STD50PAU99R10X
09	4-40 UNC Threaded insert	6STD09PAU99R20X
15	4-40 UNC Threaded insert	6STD15PAU99R20X
25	4-40 UNC Threaded insert	6STD25PAU99R20X
37	4-40 UNC Threaded insert	6STD37PAU99R20X
50	4-40 UNC Threaded insert	6STD50PAU99R20X
09	PCB clip / M3 Threaded insert	6STD09PAU99R30X
15	PCB clip / M3 Threaded insert	6STD15PAU99R30X
25	PCB clip / M3 Threaded insert	6STD25PAU99R30X
37	PCB clip / M3 Threaded insert	6STD37PAU99R30X
50	PCB clip / M3 Threaded insert	6STD50PAU99R30X
09	PCB clip / 4-40 UNC Threaded insert	6STD09PAU99R40X
15	PCB clip / 4-40 UNC Threaded insert	6STD15PAU99R40X
25	PCB clip / 4-40 UNC Threaded insert	6STD25PAU99R40X
37	PCB clip / 4-40 UNC Threaded insert	6STD37PAU99R40X
50	PCB clip / 4-40 UNC Threaded insert	6STD50PAU99R40X

PCB clip .122"/3.1 ± .004"/0.10 mm hole diameter and .063"/1.6 mm circuit board thickness

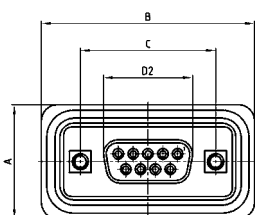
IP67 D-SUB STANDARD

Solder pin – Angled – .464" / 11.8 mm – Precision machined contacts – Metal bracket



RoHS compliant - CSA listed, File No.LR115000-1 UL listed, File No. E202784

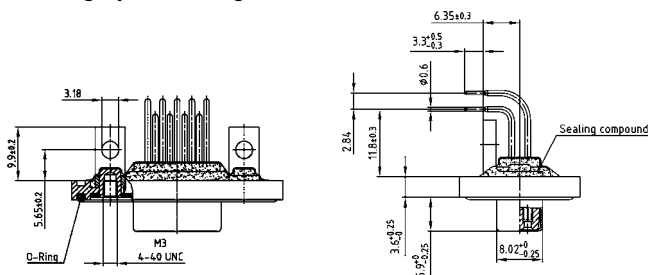
SOCKET CONNECTOR



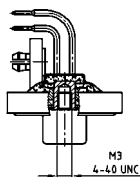
No. of pos.	A +0.3	B +0.3	C	D2 -0.25
09	21.10	39.40	25.00 ^{+0.12} _{-0.13}	16.46
15	21.10	47.70	33.30 ^{+0.15} _{-0.10}	24.79
25	21.10	61.40	47.04 ^{+0.13}	38.50
37	21.10	77.90	63.50 ^{+0.13}	54.96

PCB-Layout: Kat1kGUA

Mounting style: Mounting bracket, threaded insert



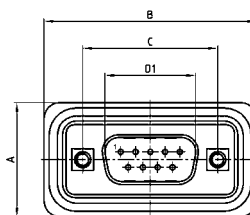
Mounting style: PCB clip, threaded insert



DESCRIPTION

- Mounting styles:
 - with mounting bracket and 4-40 UNC or M3 threaded insert including hex locking bolt
 - with mounting bracket, PCB clip and M3 or UNC 4-40 threaded insert including hex locking bolt
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (stainless steel available on request)
- Nickel plated die-cast frame (Black plastic frame on request)

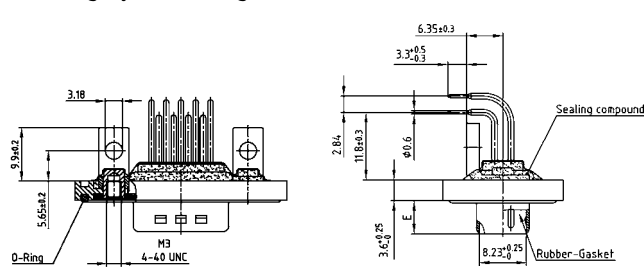
PLUG CONNECTOR



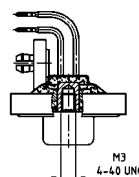
No. of pos.	A +0.3	B +0.3	C	D1 -0.25	E -0.30
9	21.10	39.40	25.00 ^{+0.12} _{-0.13}	16.79	5.82
15	21.10	47.70	33.30 ^{+0.15} _{-0.10}	25.12	5.82
25	21.10	61.40	47.04 ^{+0.13}	38.84	5.69
37	21.10	77.90	63.50 ^{+0.13}	55.30	5.69

PCB-Layout: Kat1kGUA

Mounting style: Mounting bracket, threaded insert



Mounting style: PCB clip, threaded insert



ORDER DATA

SOCKET CONNECTOR

No. of pos.	Mounting style	Part Number
09	M3 Threaded insert	6STD09SAZ99S10X
15	M3 Threaded insert	6STD15SAZ99S10X
25	M3 Threaded insert	6STD25SAZ99S10X
37	M3 Threaded insert	6STD37SAZ99S10X
09	4-40 UNC Threaded insert	6STD09SAZ99S20X
15	4-40 UNC Threaded insert	6STD15SAZ99S20X
25	4-40 UNC Threaded insert	6STD25SAZ99S20X
37	4-40 UNC Threaded insert	6STD37SAZ99S20X
09	PCB clip / M3 Threaded insert	6STD09SAZ99S30X
15	PCB clip / M3 Threaded insert	6STD15SAZ99S30X
25	PCB clip / M3 Threaded insert	6STD25SAZ99S30X
37	PCB clip / M3 Threaded insert	6STD37SAZ99S30X
09	PCB clip / 4-40 UNC Threaded insert	6STD09SAZ99S40X
15	PCB clip / 4-40 UNC Threaded insert	6STD15SAZ99S40X
25	PCB clip / 4-40 UNC Threaded insert	6STD25SAZ99S40X
37	PCB clip / 4-40 UNC Threaded insert	6STD37SAZ99S40X

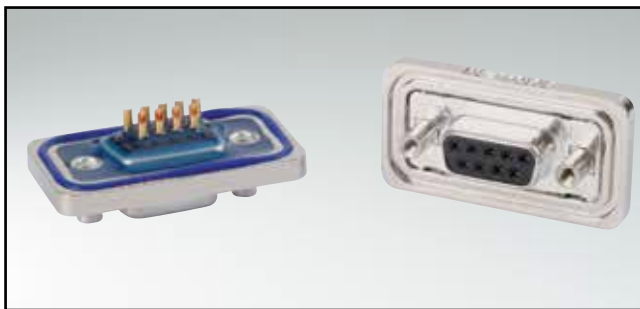
PLUG CONNECTOR

No. of pos.	Mounting style	Part Number
09	M3 Threaded insert	6STD09PAZ99S10X
15	M3 Threaded insert	6STD15PAZ99S10X
25	M3 Threaded insert	6STD25PAZ99S10X
37	M3 Threaded insert	6STD37PAZ99S10X
09	4-40 UNC Threaded insert	6STD09PAZ99S20X
15	4-40 UNC Threaded insert	6STD15PAZ99S20X
25	4-40 UNC Threaded insert	6STD25PAZ99S20X
37	4-40 UNC Threaded insert	6STD37PAZ99S20X
09	PCB clip / M3 Threaded insert	6STD09PAZ99S30X
15	PCB clip / M3 Threaded insert	6STD15PAZ99S30X
25	PCB clip / M3 Threaded insert	6STD25PAZ99S30X
37	PCB clip / M3 Threaded insert	6STD37PAZ99S30X
09	PCB clip / 4-40 UNC Threaded insert	6STD09PAZ99S40X
15	PCB clip / 4-40 UNC Threaded insert	6STD15PAZ99S40X
25	PCB clip / 4-40 UNC Threaded insert	6STD25PAZ99S40X
37	PCB clip / 4-40 UNC Threaded insert	6STD37PAZ99S40X

PCB clip .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness

IP67 D-SUB STANDARD

Solder cup – Precision machined contacts – Front mounting – For wire size AWG 20

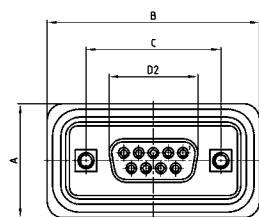


RoHS compliant - CSA listed, File No.LR115000-1 UL listed, File No. E202784

DESCRIPTION

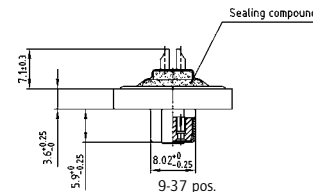
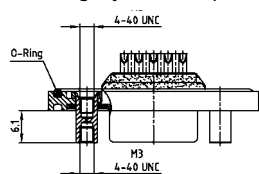
- Suitable for wire size AWG 20
- Mounting styles:
 - with M3 or 4-40 UNC front spacer
 - with M3 or 4-40 UNC front spacer and rear mounting stud
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (stainless steel available on request)
- Nickel plated die-cast frame (Black plastic frame on request)

SOCKET CONNECTOR

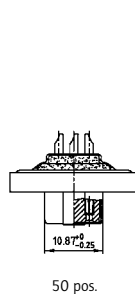
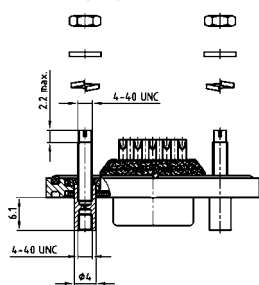


No. of pos.	A +0.3	B +0.3	C	D2 -0.25	D1
09	21.10	39.40	25.00	-0.12	16.46
15	21.10	47.70	33.30	^{+0.15} / _{-0.10}	24.79
25	21.10	61.40	47.04	^{+0.13} / _{-0.10}	38.50
37	21.10	77.90	63.50	^{+0.13} / _{-0.11}	54.96
50	23.90	75.50	61.10	^{+0.14} / _{-0.11}	52.55

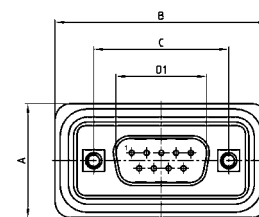
Mounting style: Front spacer



Mounting style: Front spacer and rear mounting stud

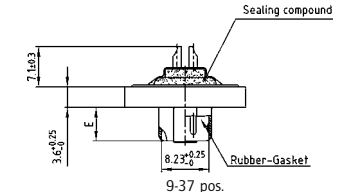
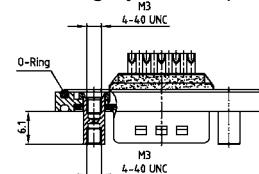


PLUG CONNECTOR

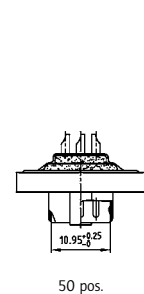
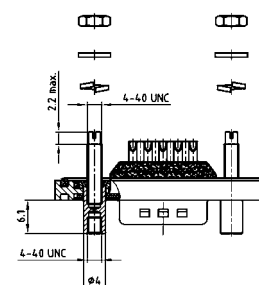


No. of pos.	A +0.3	B +0.3	C	D1 -0.25	E -0.30
9	21.10	39.40	25.00	^{+0.12} / _{-0.12}	16.79
15	21.10	47.70	33.30	^{+0.15} / _{-0.10}	25.12
25	21.10	61.40	47.04	^{+0.13} / _{-0.10}	38.84
37	21.10	77.90	63.50	^{+0.13} / _{-0.11}	55.30
50	23.90	75.50	61.10	^{+0.14} / _{-0.11}	52.68

Mounting style: Front spacer



Mounting style: Front spacer and rear mounting stud



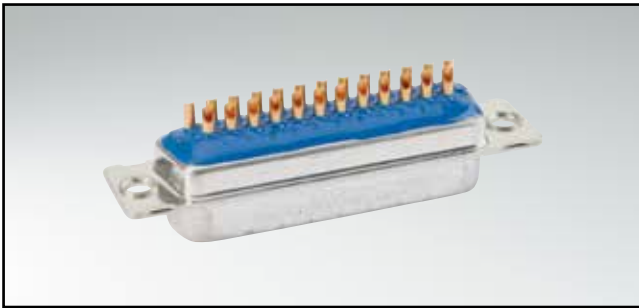
ORDER DATA

SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
09	M3 Front spacer	6STD09SAM99B40X
15	M3 Front spacer	6STD15SAM99B40X
25	M3 Front spacer	6STD25SAM99B40X
37	M3 Front spacer	6STD37SAM99B40X
50	M3 Front spacer	6STD50SAM99B40X
09	4-40 UNC Front spacer	6STD09SAM99B50X
15	4-40 UNC Front spacer	6STD15SAM99B50X
25	4-40 UNC Front spacer	6STD25SAM99B50X
37	4-40 UNC Front spacer	6STD37SAM99B50X
50	4-40 UNC Front spacer	6STD50SAM99B50X
09	4-40 UNC Front spacer and rear mounting stud	6STD09SAM99B70X
15	4-40 UNC Front spacer and rear mounting stud	6STD15SAM99B70X
25	4-40 UNC Front spacer and rear mounting stud	6STD25SAM99B70X
37	4-40 UNC Front spacer and rear mounting stud	6STD37SAM99B70X
50	4-40 UNC Front spacer and rear mounting stud	6STD50SAM99B70X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
09	M3 Front spacer	6STD09PAM99B40X
15	M3 Front spacer	6STD15PAM99B40X
25	M3 Front spacer	6STD25PAM99B40X
37	M3 Front spacer	6STD37PAM99B40X
50	M3 Front spacer	6STD50PAM99B40X
09	4-40 UNC Front spacer	6STD09PAM99B50X
15	4-40 UNC Front spacer	6STD15PAM99B50X
25	4-40 UNC Front spacer	6STD25PAM99B50X
37	4-40 UNC Front spacer	6STD37PAM99B50X
50	4-40 UNC Front spacer	6STD50PAM99B50X
09	4-40 UNC Front spacer and rear mounting stud	6STD09PAM99B70X
15	4-40 UNC Front spacer and rear mounting stud	6STD15PAM99B70X
25	4-40 UNC Front spacer and rear mounting stud	6STD25PAM99B70X
37	4-40 UNC Front spacer and rear mounting stud	6STD37PAM99B70X
50	4-40 UNC Front spacer and rear mounting stud	6STD50PAM99B70X

IP67 D-SUB STANDARD

Solder cup – Precision machined contacts – For hood Assembly – For wire size AWG 20

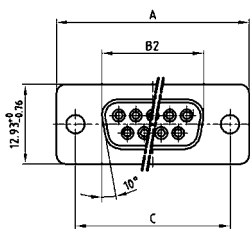


RoHS compliant - CSA listed, File No.LR115000-1 UL listed, File No. E202784

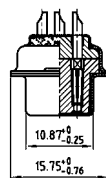
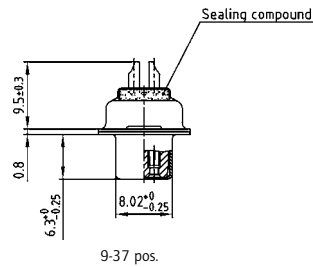
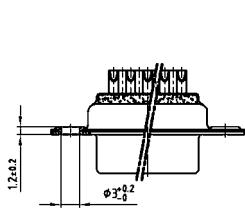
DESCRIPTION

- Suitable for wire size AWG 20
- Mounting style:
with through-hole, Ø .118" / 3.0 mm
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (stainless steel available on request)

SOCKET CONNECTOR

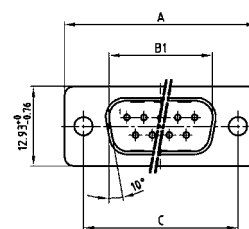


No. of pos.	A -0.76	B2 -0.25	C
09	31.19	16.46	25.00 ^{+0.12} / _{-0.13}
15	39.52	24.79	33.30 ^{+0.15} / _{-0.10}
25	53.42	38.50	47.04 ^{+0.13} / _{-0.10}
37	69.70	54.96	63.50 ^{+0.13} / _{-0.10}
50	67.31	52.55	61.10 ^{+0.14} / _{-0.11}

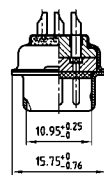
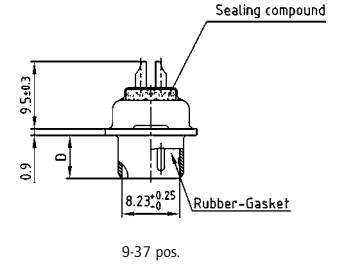
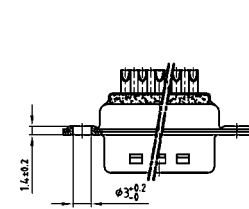


50 pos.

PLUG CONNECTOR



No. of pos.	A	B1 +0.25	C	D -0.30
09	31.19	16.79	25.00 ^{+0.12} / _{-0.13}	6.12
15	39.52	25.12	33.30 ^{+0.15} / _{-0.10}	6.12
25	53.42	38.84	47.04 ^{+0.13} / _{-0.10}	5.99
37	69.70	55.30	63.50 ^{+0.13} / _{-0.10}	5.99
50	67.31	52.68	61.10 ^{+0.14} / _{-0.11}	5.99



50 pos.

ORDER DATA

SOCKET CONNECTOR

No. of pos.	Mounting style	Part Number
09	Through-hole	4STD09SAM99A10X
15	Through-hole	4STD15SAM99A10X
25	Through-hole	4STD25SAM99A10X
37	Through-hole	4STD37SAM99A10X
50	Through-hole	4STD50SAM99A10X

PLUG CONNECTOR

No. of pos.	Mounting style	Part Number
09	Through-hole	4STD09PAM99A10X
15	Through-hole	4STD15PAM99A10X
25	Through-hole	4STD25PAM99A10X
37	Through-hole	4STD37PAM99A10X
50	Through-hole	4STD50PAM99A10X

IP67 D-SUB HIGH DENSITY

Solder cup – Precision machined contacts – For wire size AWG 22

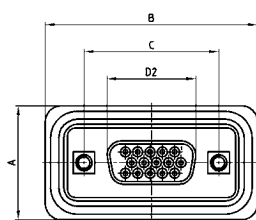


RoHS compliant - CSA listed, File No.LR115000-1 UL listed, File No. E202784

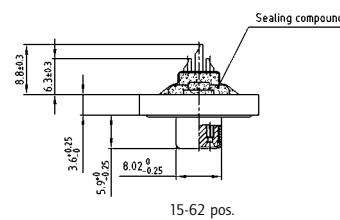
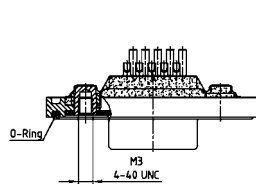
DESCRIPTION

- Suitable for wire size AWG 22
- Mounting style: with 4-40 UNC or M3 threaded insert including hex locking bolt
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (stainless steel available on request)
- Nickel plated die-cast frame (Black plastic frame on request)

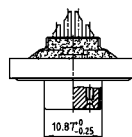
SOCKET CONNECTOR



No. of pos.	A +0.3	B +0.3	C	D2 -0.25
15	21.10	39.40	25.00 ^{+0.12 -0.13}	16.46
26	21.10	47.70	33.30 ^{+0.15 -0.10}	24.79
44	21.10	61.40	47.04 ^{+0.13}	38.50
62	21.10	77.90	63.50 ^{+0.13}	54.96
78	23.90	75.50	61.10 ^{+0.14 -0.11}	52.55

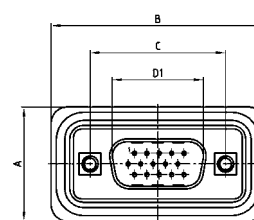


15-62 pos.

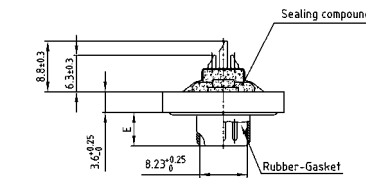
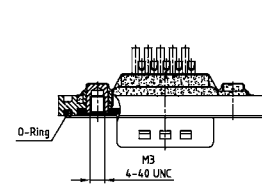


78 pos.

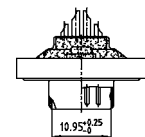
PLUG CONNECTOR



No. of pos.	A +0.3	B +0.3	C	D1 +0.25	E -0.30
15	21.10	39.40	25.00 ^{+0.12 -0.13}	16.79	5.82
26	21.10	47.70	33.30 ^{+0.15 -0.10}	25.12	5.82
44	21.10	61.40	47.04 ^{+0.13}	38.84	5.69
62	21.10	77.90	63.50 ^{+0.13}	55.30	5.69
78	23.90	75.50	61.10 ^{+0.14 -0.11}	52.68	5.69



15-62 pos.



78 pos.

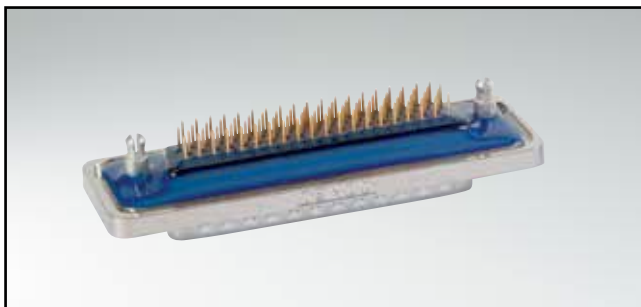
ORDER DATA

SOCKET CONNECTOR		
No. of pos.	Mounting style	Part Number
15	M3 Threaded insert	6HDD15SAM99B20X
26	M3 Threaded insert	6HDD26SAM99B20X
44	M3 Threaded insert	6HDD44SAM99B20X
62	M3 Threaded insert	6HDD62SAM99B20X
78	M3 Threaded insert	6HDD78SAM99B20X
15	4-40 UNC Threaded insert	6HDD15SAM99B30X
26	4-40 UNC Threaded insert	6HDD26SAM99B30X
44	4-40 UNC Threaded insert	6HDD44SAM99B30X
62	4-40 UNC Threaded insert	6HDD62SAM99B30X
78	4-40 UNC Threaded insert	6HDD78SAM99B30X

PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number
15	M3 Threaded insert	6HDD15PAM99B20X
26	M3 Threaded insert	6HDD26PAM99B20X
44	M3 Threaded insert	6HDD44PAM99B20X
62	M3 Threaded insert	6HDD62PAM99B20X
78	M3 Threaded insert	6HDD78PAM99B20X
15	4-40 UNC Threaded insert	6HDD15PAM99B30X
26	4-40 UNC Threaded insert	6HDD26PAM99B30X
44	4-40 UNC Threaded insert	6HDD44PAM99B30X
62	4-40 UNC Threaded insert	6HDD62PAM99B30X
78	4-40 UNC Threaded insert	6HDD78PAM99B30X

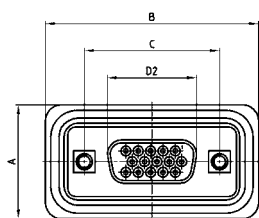
IP67 D-SUB HIGH DENSITY

Solder pin – Straight – Precision machined contacts



RoHS compliant - CSA listed, File No.LR115000-1 UL listed, File No. E202784

SOCKET CONNECTOR



No. of pos.	A +0.3	B +0.3	C	D2 ±0.25	D1 ±0.25
15	21.10	39.40	25.00 ^{+0.12 -0.13}	16.46	16.46
26	21.10	47.70	33.30 ^{+0.15 -0.10}	24.79	24.79
44	21.10	61.40	47.04 ^{+0.13}	38.50	38.50
62	21.10	77.90	63.50 ^{+0.13}	54.96	54.96
78	23.90	75.50	61.10 ^{+0.14 -0.11}	52.55	52.55

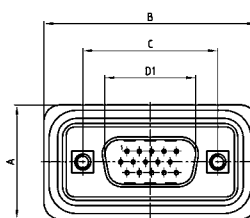
PCB-Layout: Kat1kGDA / Kat1tT9A

Mounting style: Threaded insert

DESCRIPTION

- Mounting styles:
 - with 4-40 UNC or M3 threaded insert including hex locking bolt
 - with M3 or 4-40 UNC threaded rear spacer and PCB clip including hex locking bolt
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (stainless steel available on request)
- Nickel plated die-cast frame (Black plastic frame on request)

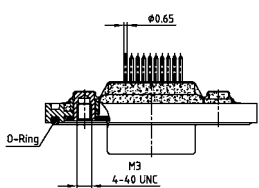
PLUG CONNECTOR



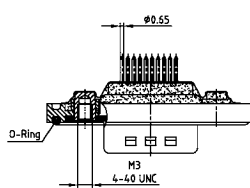
No. of pos.	A +0.3	B +0.3	C	D1 ±0.25	E ±0.30
15	21.10	39.40	25.00 ^{+0.12 -0.13}	16.79	5.82
26	21.10	47.70	33.30 ^{+0.15 -0.10}	25.12	5.82
44	21.10	61.40	47.04 ^{+0.13}	38.84	5.69
62	21.10	77.90	63.50 ^{+0.13}	55.30	5.69
78	23.90	75.50	61.10 ^{+0.14 -0.11}	52.68	5.69

PCB-Layout: Kat1kFWA / Kat1iU0A

Mounting style: Threaded insert



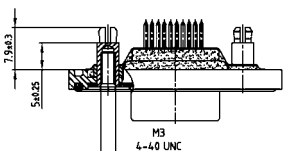
15-62 pos.



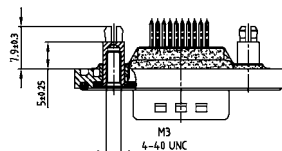
15-62 pos.

Mounting style: Threaded rear spacer with PCB clip

Mounting style: Threaded rear spacer with PCB clip



78 pos.



78 pos.

ORDER DATA

SOCKET CONNECTOR

No. of pos.	Mounting style	Part Number
15	M3 Threaded insert	6HDD15SAR99B20X
26	M3 Threaded insert	6HDD26SAR99B20X
44	M3 Threaded insert	6HDD44SAR99B20X
62	M3 Threaded insert	6HDD62SAR99B20X
78	M3 Threaded insert	6HDD78SAR99B20X
15	4-40 UNC Threaded insert	6HDD15SAR99B30X
26	4-40 UNC Threaded insert	6HDD26SAR99B30X
44	4-40 UNC Threaded insert	6HDD44SAR99B30X
62	4-40 UNC Threaded insert	6HDD62SAR99B30X
78	4-40 UNC Threaded insert	6HDD78SAR99B30X
15	M3 Threaded rear spacer PCB clip	6HDD15SAR99E10X
26	M3 Threaded rear spacer PCB clip	6HDD26SAR99E10X
44	M3 Threaded rear spacer PCB clip	6HDD44SAR99E10X
62	M3 Threaded rear spacer PCB clip	6HDD62SAR99E10X
78	M3 Threaded rear spacer PCB clip	6HDD78SAR99E10X
15	4-40 UNC Threaded rear spacer PCB clip	6HDD15SAR99E20X
26	4-40 UNC Threaded rear spacer PCB clip	6HDD26SAR99E20X
44	4-40 UNC Threaded rear spacer PCB clip	6HDD44SAR99E20X
62	4-40 UNC Threaded rear spacer PCB clip	6HDD62SAR99E20X
78	4-40 UNC Threaded rear spacer PCB clip	6HDD78SAR99E20X

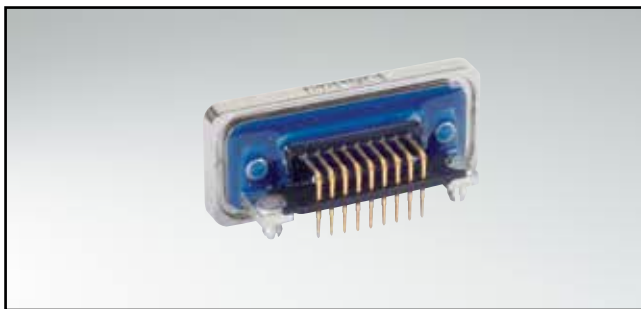
PLUG CONNECTOR

No. of pos.	Mounting style	Part Number
15	M3 Threaded insert	6HDD15PAR99B20X
26	M3 Threaded insert	6HDD26PAR99B20X
44	M3 Threaded insert	6HDD44PAR99B20X
62	M3 Threaded insert	6HDD62PAR99B20X
78	M3 Threaded insert	6HDD78PAR99B20X
15	4-40 UNC Threaded insert	6HDD15PAR99B30X
26	4-40 UNC Threaded insert	6HDD26PAR99B30X
44	4-40 UNC Threaded insert	6HDD44PAR99B30X
62	4-40 UNC Threaded insert	6HDD62PAR99B30X
78	4-40 UNC Threaded insert	6HDD78PAR99B30X
15	M3 Threaded rear spacer PCB clip	6HDD15PAR99E10X
26	M3 Threaded rear spacer PCB clip	6HDD26PAR99E10X
44	M3 Threaded rear spacer PCB clip	6HDD44PAR99E10X
62	M3 Threaded rear spacer PCB clip	6HDD62PAR99E10X
78	M3 Threaded rear spacer PCB clip	6HDD78PAR99E10X
15	4-40 UNC Threaded rear spacer PCB clip	6HDD15PAR99E20X
26	4-40 UNC Threaded rear spacer PCB clip	6HDD26PAR99E20X
44	4-40 UNC Threaded rear spacer PCB clip	6HDD44PAR99E20X
62	4-40 UNC Threaded rear spacer PCB clip	6HDD62PAR99E20X
78	4-40 UNC Threaded rear spacer PCB clip	6HDD78PAR99E20X

PCB clip .122"/3.1 ± .004"/0.10 mm hole diameter and .063"/1.6 mm circuit board thickness

IP67 D-SUB HIGH DENSITY

Solder pin – Angled – .220"/5,6 mm – Precision machined contacts – Metal Bracket

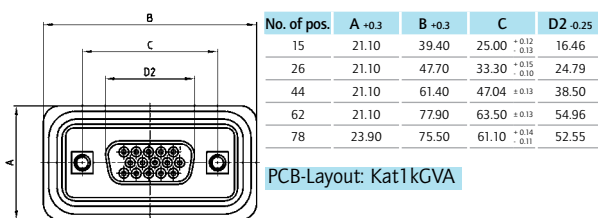


RoHS compliant - CSA listed, File No.LR115000-1 UL listed, File No. E202784

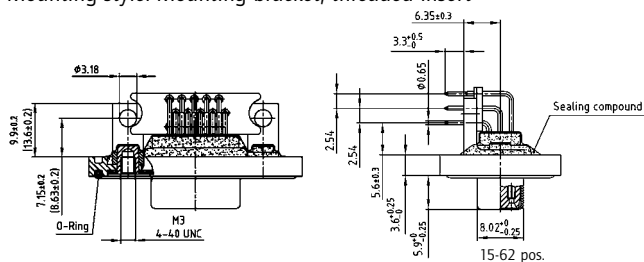
DESCRIPTION

- Mounting styles:
 - with mounting bracket and 4-40 UNC or M3 threaded insert including hex locking bolt
 - with mounting bracket, PCB clip and 4-40 UNC or M3 threaded insert including hex locking bolt
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (stainless steel available on request)
- Nickel plated die-cast frame (Black plastic frame on request)

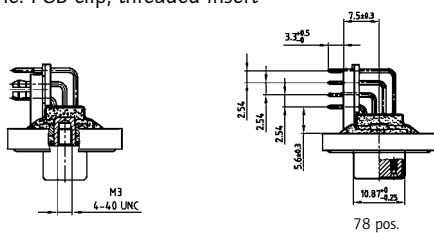
SOCKET CONNECTOR



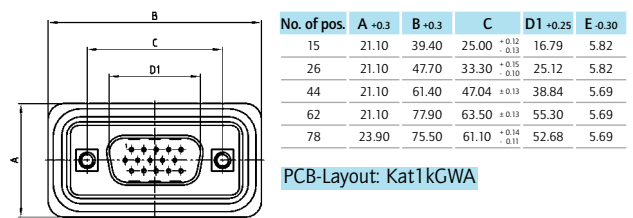
Mounting style: Mounting bracket, threaded insert



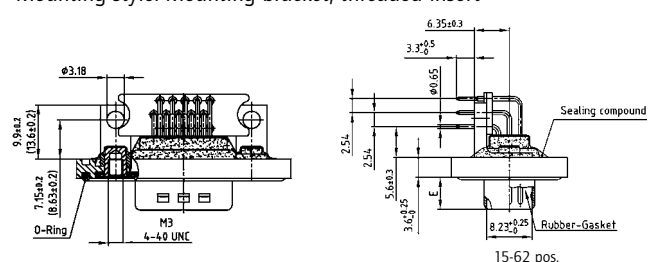
Mounting style: PCB clip, threaded insert



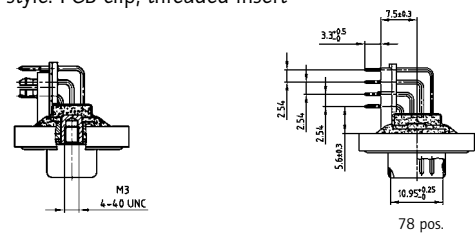
PLUG CONNECTOR



Mounting style: Mounting bracket, threaded insert



Mounting style: PCB clip, threaded insert



ORDER DATA

SOCKET CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number	No. of pos.	Mounting style	Part Number
15	M3 Threaded insert	6HDD15SAY99R10X	15	M3 Threaded insert	6HDD15PAY99R10X
26	M3 Threaded insert	6HDD26SAY99R10X	26	M3 Threaded insert	6HDD26PAY99R10X
44	M3 Threaded insert	6HDD44SAY99R10X	44	M3 Threaded insert	6HDD44PAY99R10X
62	M3 Threaded insert	6HDD62SAY99R10X	62	M3 Threaded insert	6HDD62PAY99R10X
78	M3 Threaded insert	6HDD78SAY99R10X	78	M3 Threaded insert	6HDD78PAY99R10X
15	4-40 UNC Threaded insert	6HDD15SAY99R20X	15	4-40 UNC Threaded insert	6HDD15PAY99R20X
26	4-40 UNC Threaded insert	6HDD26SAY99R20X	26	4-40 UNC Threaded insert	6HDD26PAY99R20X
44	4-40 UNC Threaded insert	6HDD44SAY99R20X	44	4-40 UNC Threaded insert	6HDD44PAY99R20X
62	4-40 UNC Threaded insert	6HDD62SAY99R20X	62	4-40 UNC Threaded insert	6HDD62PAY99R20X
78	4-40 UNC Threaded insert	6HDD78SAY99R20X	78	4-40 UNC Threaded insert	6HDD78PAY99R20X
15	PCB clip / M3 Threaded insert	6HDD15SAY99R30X	15	PCB clip / M3 Threaded insert	6HDD15PAY99R30X
26	PCB clip / M3 Threaded insert	6HDD26SAY99R30X	26	PCB clip / M3 Threaded insert	6HDD26PAY99R30X
44	PCB clip / M3 Threaded insert	6HDD44SAY99R30X	44	PCB clip / M3 Threaded insert	6HDD44PAY99R30X
62	PCB clip / M3 Threaded insert	6HDD62SAY99R30X	62	PCB clip / M3 Threaded insert	6HDD62PAY99R30X
78	PCB clip / M3 Threaded insert	6HDD78SAY99R30X	78	PCB clip / M3 Threaded insert	6HDD78PAY99R30X
15	PCB clip / 4-40 UNC Threaded insert	6HDD15SAY99R40X	15	PCB clip / 4-40 UNC Threaded insert	6HDD15PAY99R40X
26	PCB clip / 4-40 UNC Threaded insert	6HDD26SAY99R40X	26	PCB clip / 4-40 UNC Threaded insert	6HDD26PAY99R40X
44	PCB clip / 4-40 UNC Threaded insert	6HDD44SAY99R40X	44	PCB clip / 4-40 UNC Threaded insert	6HDD44PAY99R40X
62	PCB clip / 4-40 UNC Threaded insert	6HDD62SAY99R40X	62	PCB clip / 4-40 UNC Threaded insert	6HDD62PAY99R40X
78	PCB clip / 4-40 UNC Threaded insert	6HDD78SAY99R40X	78	PCB clip / 4-40 UNC Threaded insert	6HDD78PAY99R40X

PCB clip .122"/3.1 ± .004"/0.10 mm hole diameter and .063"/1.6 mm circuit board thickness

IP67 D-SUB HIGH DENSITY

Solder cup – Precision machined contacts – Front mounting – For wire size AWG 22

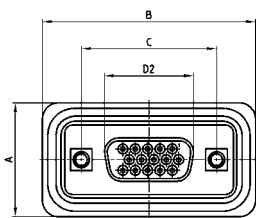


RoHS compliant - CSA listed, File No.LR115000-1 UL listed, File No. E202784

DESCRIPTION

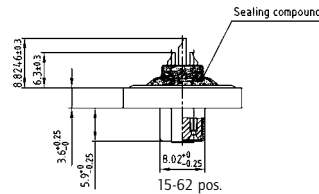
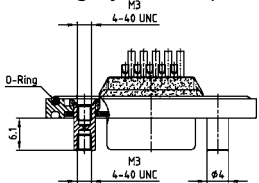
- Suitable for wire size AWG 22
- Mounting styles:
 - with M3 or 4-40 UNC front spacer
 - with M3 or 4-40 UNC front spacer and rear mounting stud
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (stainless steel available on request)
- Nickel plated die-cast frame (Black plastic frame on request)

SOCKET CONNECTOR

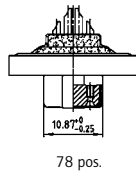
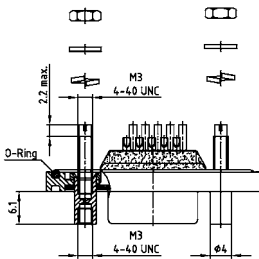


No. of pos.	A +0.3	B +0.3	C	D2 -0.25
15	21.10	39.40	25.00 ^{+0.12} / _{-0.13}	16.46
26	21.10	47.70	33.30 ^{+0.15} / _{-0.10}	24.79
44	21.10	61.40	47.04 ^{+0.13}	38.50
62	21.10	77.90	63.50 ^{+0.13}	54.96
78	23.90	75.50	61.10 ^{+0.14} / _{-0.11}	52.55

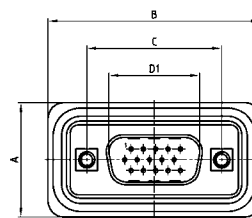
Mounting style: Front spacer



Mounting style: Front spacer and rear mounting stud

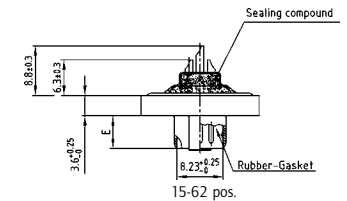
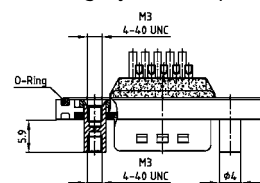


PLUG CONNECTOR

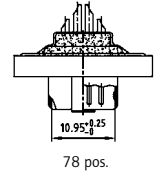
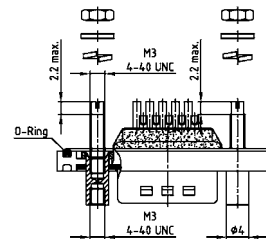


No. of pos.	A +0.3	B +0.3	C	D1 +0.25	E -0.30
15	21.10	39.40	25.00 ^{+0.12} / _{-0.13}	16.79	5.82
26	21.10	47.70	33.30 ^{+0.15} / _{-0.10}	25.12	5.82
44	21.10	61.40	47.04 ^{+0.13}	38.84	5.69
62	21.10	77.90	63.50 ^{+0.13}	55.30	5.69
78	23.90	75.50	61.10 ^{+0.14} / _{-0.11}	52.68	5.69

Mounting style: Front spacer



Mounting style: Front spacer and rear mounting stud



ORDER DATA

SOCKET CONNECTOR

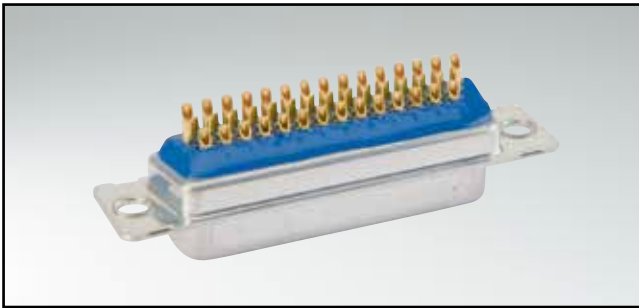
No. of pos.	Mounting style	Part Number
15	M3 Front spacer	6HDD15SAM99B40X
26	M3 Front spacer	6HDD26SAM99B40X
44	M3 Front spacer	6HDD44SAM99B40X
62	M3 Front spacer	6HDD62SAM99B40X
78	M3 Front spacer	6HDD78SAM99B40X
15	4-40 UNC Front spacer	6HDD15SAM99B50X
26	4-40 UNC Front spacer	6HDD26SAM99B50X
44	4-40 UNC Front spacer	6HDD44SAM99B50X
62	4-40 UNC Front spacer	6HDD62SAM99B50X
78	4-40 UNC Front spacer	6HDD78SAM99B50X
15	4-40 UNC Front spacer and rear mounting stud	6HDD15SAM99B70X
26	4-40 UNC Front spacer and rear mounting stud	6HDD26SAM99B70X
44	4-40 UNC Front spacer and rear mounting stud	6HDD44SAM99B70X
62	4-40 UNC Front spacer and rear mounting stud	6HDD62SAM99B70X
78	4-40 UNC Front spacer and rear mounting stud	6HDD78SAM99B70X

PLUG CONNECTOR

No. of pos.	Mounting style	Part Number
15	M3 Front spacer	6HDD15PAM99B40X
26	M3 Front spacer	6HDD26PAM99B40X
44	M3 Front spacer	6HDD44PAM99B40X
62	M3 Front spacer	6HDD62PAM99B40X
78	M3 Front spacer	6HDD78PAM99B40X
15	4-40 UNC Front spacer	6HDD15PAM99B50X
26	4-40 UNC Front spacer	6HDD26PAM99B50X
44	4-40 UNC Front spacer	6HDD44PAM99B50X
62	4-40 UNC Front spacer	6HDD62PAM99B50X
78	4-40 UNC Front spacer	6HDD78PAM99B50X
15	4-40 UNC Front spacer and rear mounting stud	6HDD15PAM99B70X
26	4-40 UNC Front spacer and rear mounting stud	6HDD26PAM99B70X
44	4-40 UNC Front spacer and rear mounting stud	6HDD44PAM99B70X
62	4-40 UNC Front spacer and rear mounting stud	6HDD62PAM99B70X
78	4-40 UNC Front spacer and rear mounting stud	6HDD78PAM99B70X

IP67 D-SUB HIGH DENSITY

Solder cup – Precision machined contacts – For hood Assembly – For wire size AWG 22

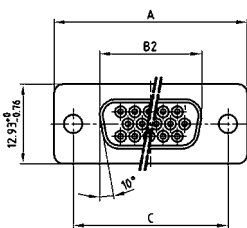


RoHS compliant - CSA listed, File No.LR115000-1 UL listed, File No. E202784

DESCRIPTION

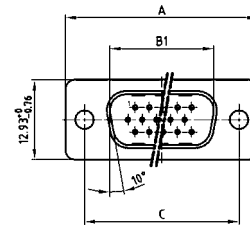
- Suitable for wire size AWG 22
- Mounting style:
with through-hole, Ø .118" / 3.0 mm
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (stainless steel available on request)

SOCKET CONNECTOR

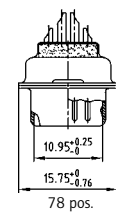
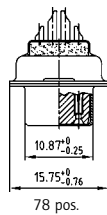
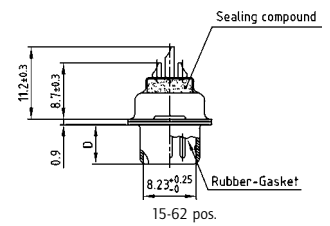
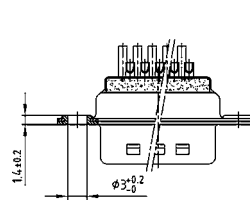
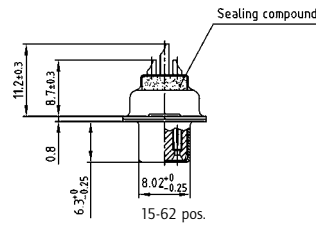
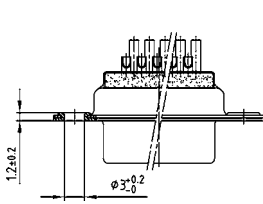


No. of pos.	A -0.76	B2 -0.25	C
15	31.19	16.46	25.00 ^{+0.12} / _{-0.13}
26	39.52	24.79	33.30 ^{+0.15} / _{-0.10}
44	53.42	38.50	47.04 ^{+0.13}
62	69.70	54.96	63.50 ^{+0.13}
78	67.31	52.55	61.10 ^{+0.14} / _{-0.11}

PLUG CONNECTOR



No. of pos.	A -0.76	B1 +0.25	C	D -0.30
15	31.19	16.79	25.00 ^{+0.12} / _{-0.13}	6.12
26	39.52	25.12	33.30 ^{+0.15} / _{-0.10}	6.12
44	53.42	38.84	47.04 ^{+0.13}	5.99
62	69.70	55.30	63.50 ^{+0.13}	5.99
78	67.31	62.68	61.10 ^{+0.14} / _{-0.11}	5.99



ORDER DATA

SOCKET CONNECTOR

No. of pos.	Mounting style	Part Number
15	Through-hole	4HDD15SAM99A10X
26	Through-hole	4HDD26SAM99A10X
44	Through-hole	4HDD44SAM99A10X
62	Through-hole	4HDD62SAM99A10X
78	Through-hole	4HDD78SAM99A10X

PLUG CONNECTOR

No. of pos.	Mounting style	Part Number
15	Through-hole	4HDD15PAM99A10X
26	Through-hole	4HDD26PAM99A10X
44	Through-hole	4HDD44PAM99A10X
62	Through-hole	4HDD62PAM99A10X
78	Through-hole	4HDD78PAM99A10X

IP67 D-SUB STANDARD SOLID BODY

Solder cup – Precision machined contacts – For wire size AWG 20

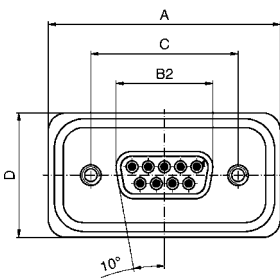


RoHS compliant - UL listed, File No. E202784

DESCRIPTION

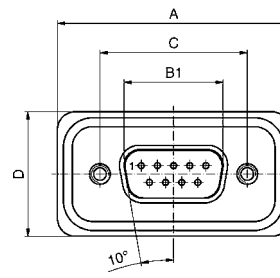
- Suitable for wire size AWG 20
- Mounting style:
4-40 UNC threaded insert including hex locking bolt
- Quality class 3 (also available in quality class 1)
- One-piece zinc die-cast nickel plated shell
- IP67 for harsh environments, pressure-proof up to 1.45 PSI
- Higher protection on request

SOCKET CONNECTOR

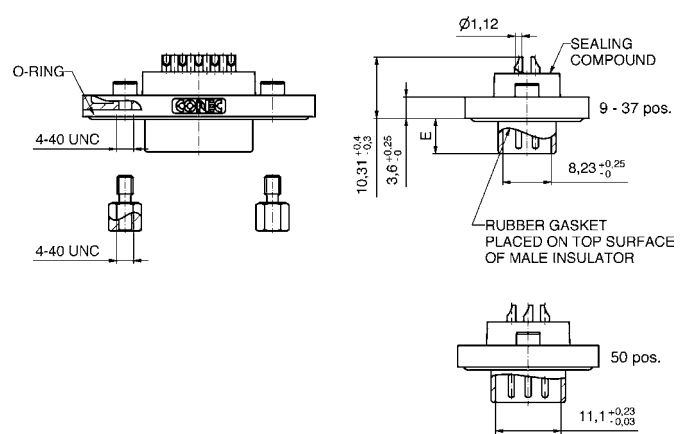
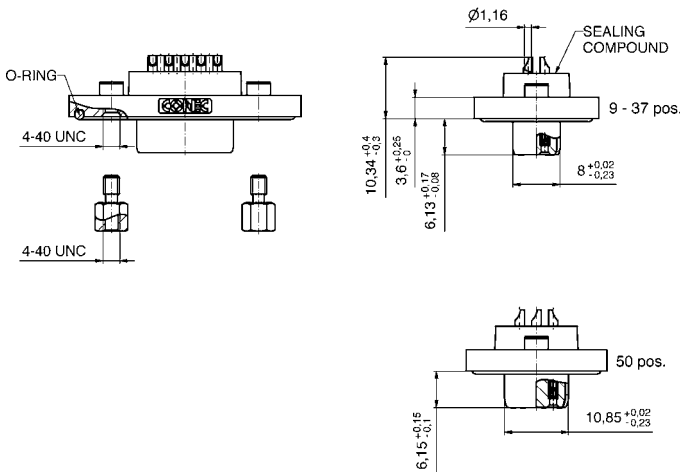


No. of pos.	A	B2 ±0.25	C	D
09	39.40 ^{+0.30} _{-0.00}	16.46	25.00 ^{+0.12} _{-0.13}	21.10 ^{+0.3} ₋₀
15	47.70 ^{+0.30} _{-0.00}	24.79	33.32 ^{+0.13} _{-0.12}	21.10 ^{+0.3} ₋₀
25	61.40 ^{+0.30} _{-0.00}	38.50	47.04 ^{+0.13} _{-0.12}	21.10 ^{+0.3} ₋₀
37	78.00 ^{+0.30} _{-0.00}	54.96	63.50 ^{+0.13} _{-0.12}	21.10 ^{+0.3} ₋₀
50	75.60 ^{+0.30} _{-0.10}	52.55	61.10 ^{+0.14} _{-0.11}	23.90 ^{+0.3} _{-0.1}

PLUG CONNECTOR



No. of pos.	A	B1	C	D	E
09	39.4 ^{+0.30} _{-0.00}	16.81 ^{+0.23} _{-0.02}	25.00 ^{+0.12} _{-0.13}	21.1 ^{+0.3} ₋₀	6.00 ^{+0.12} _{-0.18}
15	47.7 ^{+0.30} _{-0.00}	25.14 ^{+0.22} _{-0.02}	33.32 ^{+0.13} _{-0.12}	21.1 ^{+0.3} ₋₀	6.00 ^{+0.12} _{-0.18}
25	61.4 ^{+0.30} _{-0.00}	38.86 ^{+0.23} _{-0.02}	47.04 ^{+0.13} _{-0.12}	21.1 ^{+0.3} ₋₀	5.99 ⁺⁰ _{-0.3}
37	78.0 ^{+0.30} _{-0.01}	55.32 ^{+0.23} _{-0.02}	63.50 ^{+0.13} _{-0.12}	21.1 ^{+0.3} ₋₀	5.99 ⁺⁰ _{-0.3}
50	75.6 ^{+0.30} _{-0.10}	52.80 ^{+0.13} _{-0.12}	61.10 ^{+0.14} _{-0.11}	23.9 ^{+0.3} _{-0.1}	5.99 ⁺⁰ _{-0.3}



ORDER DATA

SOCKET CONNECTOR

No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded insert	15-000613
15	Threaded insert	15-000623
25	Threaded insert	15-000633
37	Threaded insert	15-000643
50	Threaded insert	15-002103

PLUG CONNECTOR

No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded insert	15-000573
15	Threaded insert	15-000583
25	Threaded insert	15-000593
37	Threaded insert	15-000603
50	Threaded insert	15-002093

IP67 D-SUB STANDARD SOLID BODY

Solder pin – Straight – Precision machined contacts

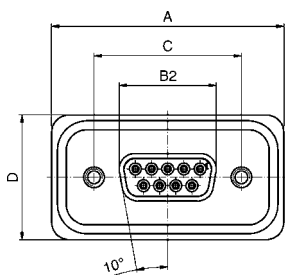


RoHS compliant - UL listed, File No. E202784

DESCRIPTION

- Mounting style:
4-40 UNC threaded rear spacer with PCB clip including hex locking bolt
- Quality class 3 (also available in quality class 1)
- One-piece zinc die-cast nickel plated shell
- IP67 for harsh environments, pressure-proof up to 1.45 PSI
- Higher protection on request

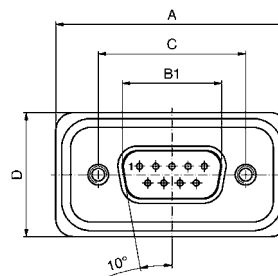
SOCKET CONNECTOR



No. of pos.	A	B2 ⁺⁰ / _{-0.25}	C	D
09	39.40 ^{+0.30} / _{-0.00}	16.46	25.00 ^{+0.12} / _{-0.13}	21.10 ^{+0.3} / ₋₀
15	47.70 ^{+0.30} / _{-0.00}	24.79	33.32 ^{+0.13} / _{-0.12}	21.10 ^{+0.3} / ₋₀
25	61.40 ^{+0.30} / _{-0.00}	38.50	47.04 ^{+0.13} / _{-0.12}	21.10 ^{+0.3} / ₋₀
37	78.00 ^{+0.30} / _{-0.00}	54.96	63.50 ^{+0.13} / _{-0.12}	21.10 ^{+0.3} / ₋₀
50	75.60 ^{+0.30} / _{-0.10}	52.55	61.10 ^{+0.14} / _{-0.11}	23.90 ^{+0.3} / _{-0.1}

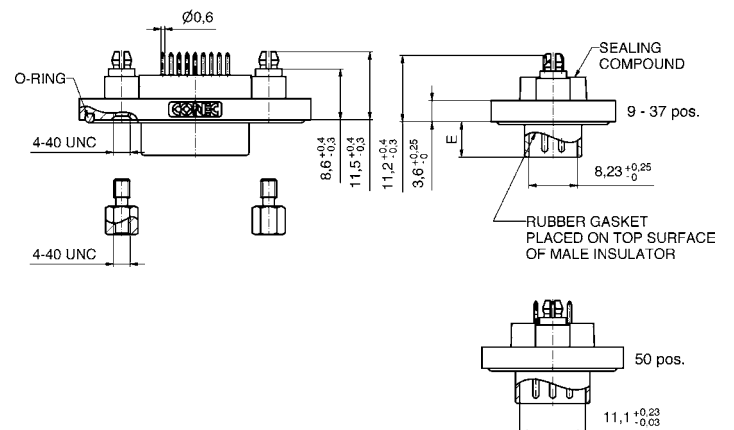
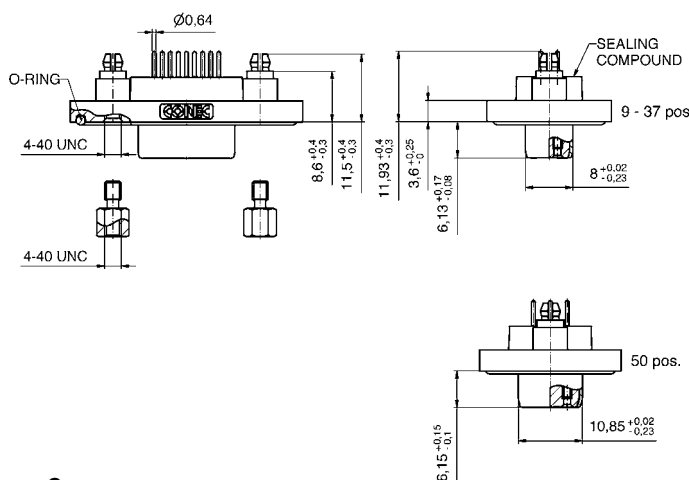
PCB-Layout: Kat1kFUA

PLUG CONNECTOR



No. of pos.	A	B1	C	D	E
09	39.4 ^{+0.30} / _{0.00}	16.81 ^{+0.23} / _{-0.02}	25.00 ^{+0.12} / _{0.12}	21.1 ^{+0.3} / ₀	6.00 ^{+0.12} / _{0.18}
15	47.7 ^{+0.30} / _{0.00}	25.14 ^{+0.23} / _{-0.02}	33.32 ^{+0.12} / _{0.12}	21.1 ^{+0.3} / ₀	6.00 ^{+0.12} / _{0.18}
25	61.4 ^{+0.30} / _{0.00}	38.86 ^{+0.23} / _{-0.02}	47.04 ^{+0.12} / _{0.12}	21.1 ^{+0.3} / ₀	5.99 ⁺⁰ / _{0.3}
37	78.0 ^{+0.30} / _{0.00}	55.32 ^{+0.23} / _{-0.02}	63.50 ^{+0.12} / _{0.12}	21.1 ^{+0.3} / ₀	5.99 ⁺⁰ / _{0.3}
50	75.6 ^{+0.30} / _{0.10}	52.80 ^{+0.13} / _{0.12}	61.10 ^{+0.14} / _{0.11}	23.9 ^{+0.3} / _{0.1}	5.99 ⁺⁰ / _{0.3}

PCB-Layout: Kat1kFUA



ORDER DATA

SOCKET CONNECTOR

No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded rear spacer PCB clip	15-000453
15	Threaded rear spacer PCB clip	15-000463
25	Threaded rear spacer PCB clip	15-000473
37	Threaded rear spacer PCB clip	15-000483
50	Threaded rear spacer PCB clip	15-002063

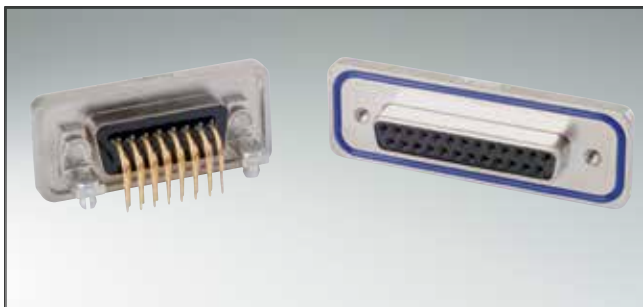
PLUG CONNECTOR

No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded rear spacer PCB clip	15-000413
15	Threaded rear spacer PCB clip	15-000423
25	Threaded rear spacer PCB clip	15-000433
37	Threaded rear spacer PCB clip	15-000443
50	Threaded rear spacer PCB clip	15-002053

PCB clip .122"/3.1 ± .004"/0.10 mm hole diameter and .063"/1.6 mm circuit board thickness

IP67 D-SUB STANDARD SOLID BODY

Solder pin – Angled – .402" / 10.2 mm – Precision machined contacts – Metal bracket

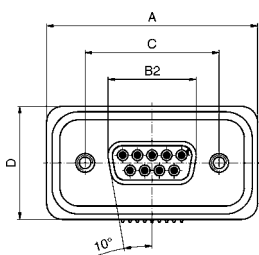


RoHS compliant - UL listed, File No. E202784

DESCRIPTION

- Mounting style:
mounting bracket, 4-40 UNC PCB clip including hex locking bolt
- Quality class 3 (also available in quality class 1)
- One-piece zinc die-cast nickel plated shell
- IP67 for harsh environments, pressure-proof up to 1.45 PSI
- Higher protection on request

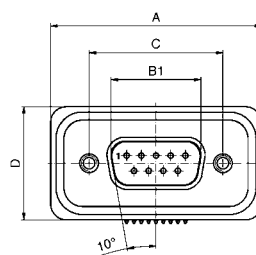
SOCKET CONNECTOR



No. of pos.	A	B2 ±0.25	C	D
09	39.40 ^{+0.30} _{-0.00}	16.46	25.00 ^{+0.02} _{-0.13}	21.10 ^{+0.3} ₋₀
15	47.70 ^{+0.30} _{-0.00}	24.79	33.32 ^{+0.03} _{-0.12}	21.10 ^{+0.3} ₋₀
25	61.40 ^{+0.30} _{-0.00}	38.50	47.04 ^{+0.03} _{-0.13}	21.10 ^{+0.3} ₋₀
37	78.00 ^{+0.30} _{-0.00}	54.96	63.50 ^{+0.03} _{-0.13}	21.10 ^{+0.3} ₋₀
50	75.60 ^{+0.30} _{-0.00}	52.55	61.10 ^{+0.04} _{-0.11}	23.90 ^{+0.3} _{-0.1}

PCB-Layout: Kat1kGMA

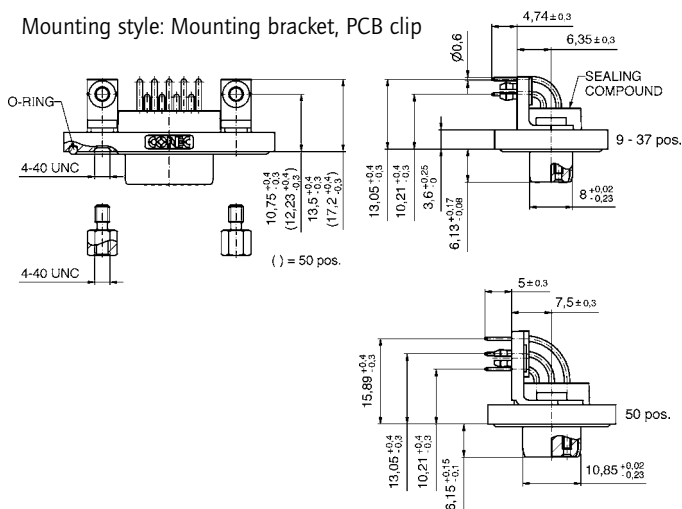
PLUG CONNECTOR



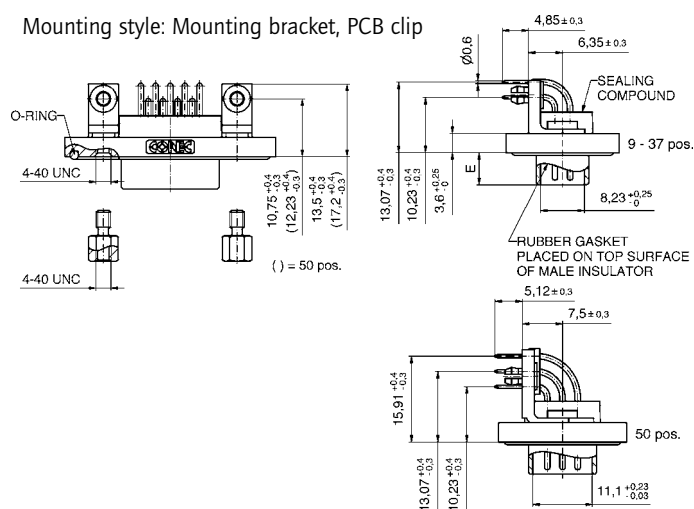
No. of pos.	A	B1	C	D	E
09	39.4 ^{+0.30} _{0.00}	16.81 ^{+0.23} _{-0.02}	25.00 ^{+0.02} _{-0.12}	21.1 ^{+0.3} ₀	6.00 ^{+0.12} _{-0.18}
15	47.7 ^{+0.30} _{0.00}	25.14 ^{+0.22} _{-0.02}	33.32 ^{+0.03} _{-0.12}	21.1 ^{+0.3} ₀	6.00 ^{+0.12} _{-0.18}
25	61.4 ^{+0.30} _{0.00}	38.86 ^{+0.23} _{-0.02}	47.04 ^{+0.03} _{-0.12}	21.1 ^{+0.3} ₀	5.99 ^{+0.0} _{-0.3}
37	78.0 ^{+0.30} _{0.01}	55.32 ^{+0.23} _{-0.02}	63.50 ^{+0.03} _{-0.12}	21.1 ^{+0.3} ₀	5.99 ^{+0.0} _{-0.3}
50	75.6 ^{+0.30} _{0.02}	52.80 ^{+0.13} _{-0.12}	61.10 ^{+0.04} _{-0.11}	23.9 ^{+0.3} _{-0.1}	5.99 ^{+0.0} _{-0.3}

PCB-Layout: Kat1kGNA

Mounting style: Mounting bracket, PCB clip



Mounting style: Mounting bracket, PCB clip



ORDER DATA

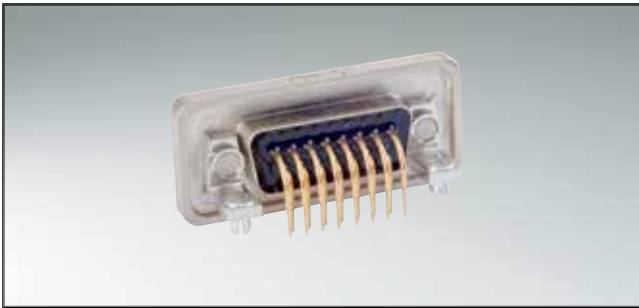
SOCKET CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Mounting bracket / PCB clip	15-000773
15	Mounting bracket / PCB clip	15-000783
25	Mounting bracket / PCB clip	15-000793
37	Mounting bracket / PCB clip	15-000803
50	Mounting bracket / PCB clip	15-002143

PLUG CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Mounting bracket / PCB clip	15-000733
15	Mounting bracket / PCB clip	15-000743
25	Mounting bracket / PCB clip	15-000753
37	Mounting bracket / PCB clip	15-000763
50	Mounting bracket / PCB clip	15-002133

PCB clip .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness

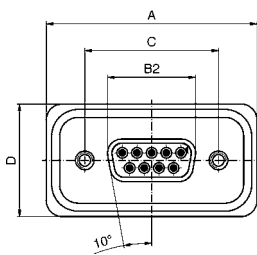
IP67 D-SUB STANDARD SOLID BODY

Solder pin – Angled – .590" / 14.9 mm – Precision machined contacts – Metal bracket



RoHS compliant - UL listed, File No. E202784

SOCKET CONNECTOR



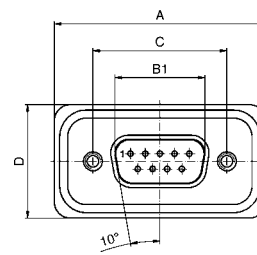
No. of pos.	A	B2 ⁺⁰ / _{-0.25}	C	D
09	39.40 ^{+0.30} / _{-0.00}	16.46	25.00 ^{+0.12} / _{-0.13}	21.10 ^{+0.3} / ₋₀
15	47.70 ^{+0.30} / _{-0.00}	24.79	33.32 ^{+0.13} / _{-0.12}	21.10 ^{+0.3} / ₋₀
25	61.40 ^{+0.30} / _{-0.00}	38.50	47.04 ^{+0.13} / _{-0.12}	21.10 ^{+0.3} / ₋₀
37	78.00 ^{+0.30} / _{-0.00}	54.96	63.50 ^{+0.13} / _{-0.12}	21.10 ^{+0.3} / ₋₀
50	75.60 ^{+0.30} / _{-0.10}	52.55	61.10 ^{+0.14} / _{-0.11}	23.90 ^{+0.3} / _{-0.1}

PCB-Layout: Kat1kGOA

DESCRIPTION

- Mounting style: mounting bracket, 4-40 UNC PCB clip including hex locking bolt
- Quality class 3 (also available in quality class 1)
- One-piece zinc die-cast nickel plated shell
- IP67 for harsh environments, pressure-proof up to 1.45 PSI
- Higher protection on request

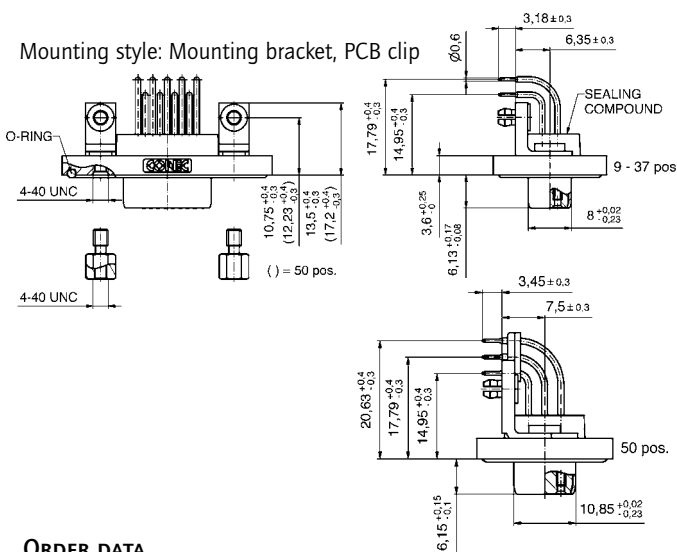
PLUG CONNECTOR



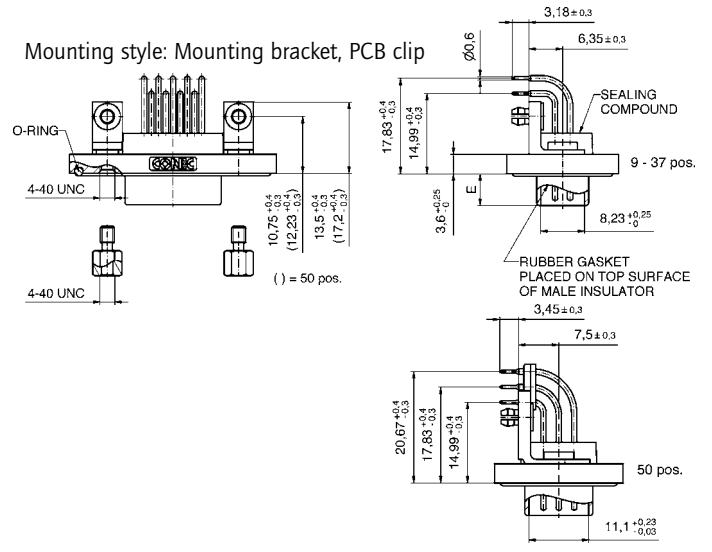
No. of pos.	A	B1	C	D	E
09	39.4 ^{+0.30} / _{-0.00}	16.81 ^{+0.23} / _{-0.02}	25.00 ^{+0.12} / _{-0.12}	21.1 ^{+0.3} / ₋₀	6.00 ^{+0.12} / _{-0.18}
15	47.7 ^{+0.30} / _{-0.00}	25.14 ^{+0.23} / _{-0.02}	33.32 ^{+0.12} / _{-0.12}	21.1 ^{+0.3} / ₋₀	6.00 ^{+0.12} / _{-0.18}
25	61.4 ^{+0.30} / _{-0.00}	38.86 ^{+0.23} / _{-0.02}	47.04 ^{+0.12} / _{-0.12}	21.1 ^{+0.3} / ₋₀	5.99 ⁺⁰ / _{-0.3}
37	78.0 ^{+0.30} / _{-0.00}	55.32 ^{+0.23} / _{-0.02}	63.50 ^{+0.12} / _{-0.12}	21.1 ^{+0.3} / ₋₀	5.99 ⁺⁰ / _{-0.3}
50	75.6 ^{+0.30} / _{-0.10}	52.80 ^{+0.13} / _{-0.12}	61.10 ^{+0.14} / _{-0.11}	23.9 ^{+0.3} / _{-0.1}	5.99 ⁺⁰ / _{-0.3}

PCB-Layout: Kat1kGPA

Mounting style: Mounting bracket, PCB clip



Mounting style: Mounting bracket, PCB clip



ORDER DATA

SOCKET CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Mounting bracket / PCB clip	15-000853
15	Mounting bracket / PCB clip	15-000863
25	Mounting bracket / PCB clip	15-000873
37	Mounting bracket / PCB clip	15-000883
50	Mounting bracket / PCB clip	15-002163

PLUG CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
09	Mounting bracket / PCB clip	15-000813
15	Mounting bracket / PCB clip	15-000823
25	Mounting bracket / PCB clip	15-000833
37	Mounting bracket / PCB clip	15-000843
50	Mounting bracket / PCB clip	15-002153

PCB clip .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness

IP67 D-SUB HIGH DENSITY SOLID BODY

Solder cup – Precision machined contacts – For wire size AWG 22

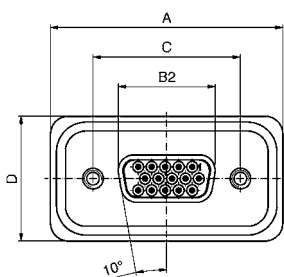


RoHS compliant - UL listed, File No. E202784

DESCRIPTION

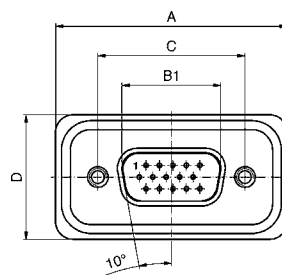
- Suitable for wire size AWG 22
- Mounting style:
4-40 UNC threaded insert including hex locking bolt
- Quality class 3 (also available in quality class 1)
- One-piece zinc die-cast nickel plated shell
- IP67 for harsh environments, pressure-proof up to 1.45 PSI
- Higher protection on request

SOCKET CONNECTOR

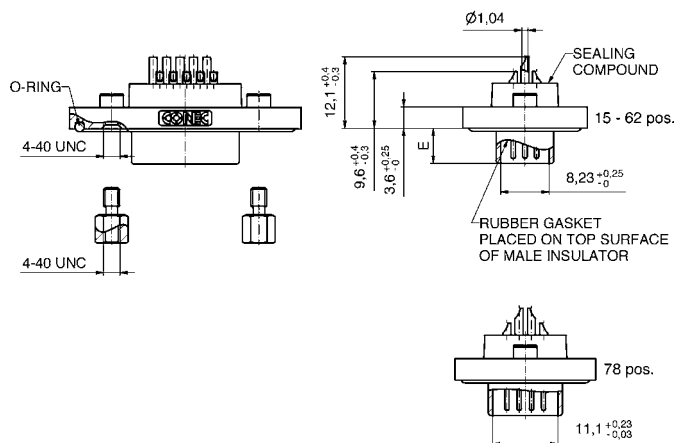
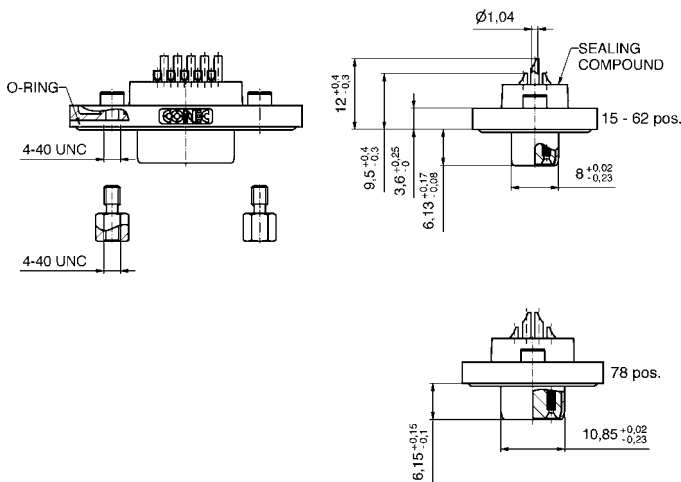


No. of pos.	A	B2 ±0.25	C	D
15	39.40 ^{+0.30} _{-0.00}	16.46	25.00 ^{+0.12} _{-0.13}	21.10 ^{+0.3} ₋₀
26	47.70 ^{+0.30} _{-0.00}	24.79	33.32 ^{+0.13} _{-0.12}	21.10 ^{+0.3} ₋₀
44	61.40 ^{+0.30} _{-0.00}	38.50	47.04 ^{+0.13} _{-0.12}	21.10 ^{+0.3} ₋₀
62	78.00 ^{+0.30} _{-0.00}	54.96	63.50 ^{+0.13} _{-0.12}	21.10 ^{+0.3} ₋₀
78	75.60 ^{+0.30} _{-0.10}	52.55	61.10 ^{+0.14} _{-0.11}	23.90 ^{+0.3} _{-0.1}

PLUG CONNECTOR



No. of pos.	A	B1	C	D	E
15	39.4 ^{+0.30} _{-0.00}	16.81 ^{+0.23} _{-0.02}	25.00 ^{+0.12} _{-0.12}	21.1 ^{+0.3} ₋₀	6.00 ^{+0.12} _{-0.18}
26	47.7 ^{+0.30} _{-0.00}	25.14 ^{+0.22} _{-0.02}	33.32 ^{+0.12} _{-0.12}	21.1 ^{+0.3} ₋₀	6.00 ^{+0.12} _{-0.18}
44	61.4 ^{+0.30} _{-0.00}	38.86 ^{+0.23} _{-0.02}	47.04 ^{+0.12} _{-0.12}	21.1 ^{+0.3} ₋₀	5.99 ^{+0.0} _{-0.3}
62	78.0 ^{+0.30} _{-0.01}	55.32 ^{+0.23} _{-0.02}	63.50 ^{+0.12} _{-0.12}	21.1 ^{+0.3} ₋₀	5.99 ^{+0.0} _{-0.3}
78	75.6 ^{+0.30} _{-0.10}	52.80 ^{+0.12} _{-0.12}	61.10 ^{+0.14} _{-0.11}	23.9 ^{+0.3} _{-0.1}	5.99 ^{+0.0} _{-0.3}



ORDER DATA

SOCKET CONNECTOR

No. of pos.	Mounting style 4-40 UNC	Part Number
15	Threaded insert	15-000693
26	Threaded insert	15-000703
44	Threaded insert	15-000713
62	Threaded insert	15-000723
78	Threaded insert	15-002123

PLUG CONNECTOR

No. of pos.	Mounting style 4-40 UNC	Part Number
15	Threaded insert	15-000653
26	Threaded insert	15-000663
44	Threaded insert	15-000673
62	Threaded insert	15-000683
78	Threaded insert	15-002113

IP67 D-SUB HIGH DENSITY SOLID BODY

Solder pin – Straight – Precision machined contacts

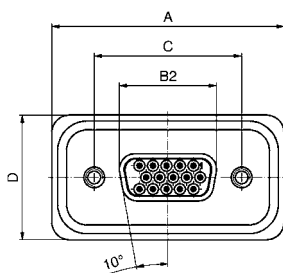


RoHS compliant - UL listed, File No. E202784

DESCRIPTION

- Mounting style:
4-40 UNC threaded rear spacer with PCB clip including hex locking bolt
- Quality class 3 (also available in quality class 1)
- One-piece zinc die-cast nickel plated shell
- IP67 for harsh environments, pressure-proof up to 1.45 PSI
- Higher protection on request

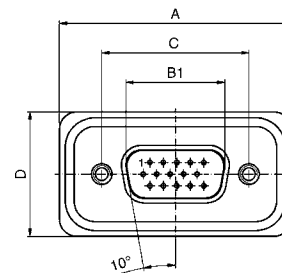
SOCKET CONNECTOR



No. of pos.	A	B2 ⁺⁰ / _{-0.25}	C	D
15	39.40 ^{+0.30} / _{-0.00}	16.46	25.00 ^{+0.12} / _{-0.13}	21.10 ^{+0.3} / ₋₀
26	47.70 ^{+0.30} / _{-0.00}	24.79	33.32 ^{+0.13} / _{-0.12}	21.10 ^{+0.3} / ₋₀
44	61.40 ^{+0.30} / _{-0.00}	38.50	47.04 ^{+0.13} / _{-0.12}	21.10 ^{+0.3} / ₋₀
62	78.00 ^{+0.30} / _{-0.00}	54.96	63.50 ^{+0.13} / _{-0.12}	21.10 ^{+0.3} / ₋₀
78	75.60 ^{+0.30} / _{-0.10}	52.55	61.10 ^{+0.14} / _{-0.11}	23.90 ^{+0.3} / _{-0.1}

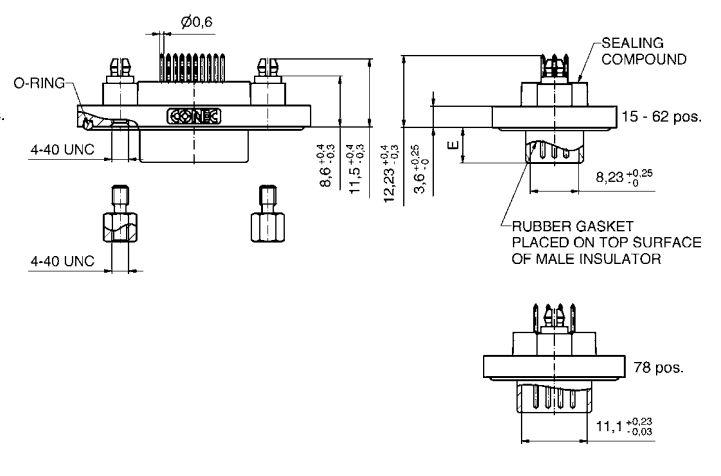
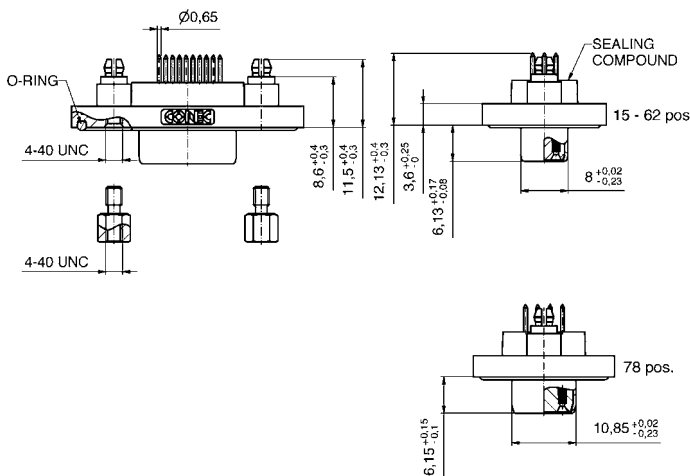
PCB-Layout: Kat11T9A

PLUG CONNECTOR



No. of pos.	A	B1	C	D	E
15	39.4 ^{+0.30} / _{-0.00}	16.81 ^{+0.23} / _{-0.02}	25.00 ^{+0.12} / _{-0.12}	21.1 ^{+0.3} / ₋₀	6.00 ^{+0.12} / _{-0.18}
26	47.7 ^{+0.30} / _{-0.00}	25.14 ^{+0.23} / _{-0.02}	33.32 ^{+0.12} / _{-0.12}	21.1 ^{+0.3} / ₋₀	6.00 ^{+0.12} / _{-0.18}
44	61.4 ^{+0.30} / _{-0.00}	38.86 ^{+0.23} / _{-0.02}	47.04 ^{+0.12} / _{-0.12}	21.1 ^{+0.3} / ₋₀	5.99 ⁺⁰ / _{-0.3}
62	78.0 ^{+0.30} / _{-0.00}	55.32 ^{+0.23} / _{-0.02}	63.50 ^{+0.12} / _{-0.12}	21.1 ^{+0.3} / ₋₀	5.99 ⁺⁰ / _{-0.3}
78	75.6 ^{+0.30} / _{-0.10}	52.80 ^{+0.13} / _{-0.12}	61.10 ^{+0.14} / _{-0.11}	23.9 ^{+0.3} / _{-0.1}	5.99 ⁺⁰ / _{-0.3}

PCB-Layout: Kat11UOA



ORDER DATA

SOCKET CONNECTOR

No. of pos.	Mounting style 4-40 UNC	Part Number
15	Threaded rear spacer PCB clip	15-000533
26	Threaded rear spacer PCB clip	15-000543
44	Threaded rear spacer PCB clip	15-000553
62	Threaded rear spacer PCB clip	15-000563
78	Threaded rear spacer PCB clip	15-002183

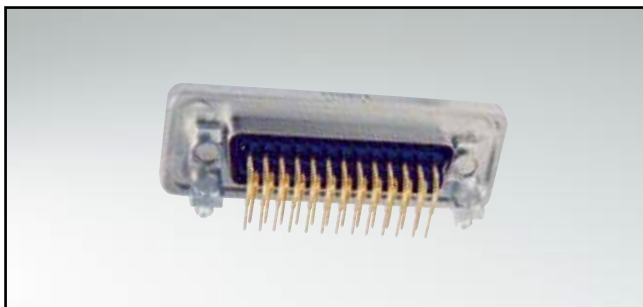
PLUG CONNECTOR

No. of pos.	Mounting style 4-40 UNC	Part Number
15	Threaded rear spacer PCB clip	15-000493
26	Threaded rear spacer PCB clip	15-000503
44	Threaded rear spacer PCB clip	15-000513
62	Threaded rear spacer PCB clip	15-000523
78	Threaded rear spacer PCB clip	15-002073

PCB clip .122"/.31 ± .004"/.10 mm hole diameter and .063"/.16 mm circuit board thickness

IP67 D-SUB HIGH DENSITY SOLID BODY

Solder pin – Angled – .362"/9,2 mm – Precision machined contacts – Metal bracket

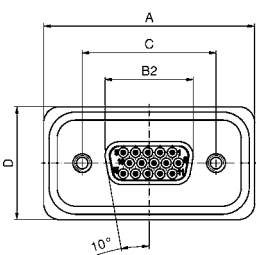


RoHS compliant - UL listed, File No. E202784

DESCRIPTION

- Mounting style:
Mounting bracket, 4-40 UNC PCB clip including hex locking bolt
- Quality class 3 (also available in quality class 1)
- One-piece zinc die-cast nickel plated shell
- IP67 for harsh environments, pressure-proof up to 1.45 PSI
- Higher protection on request

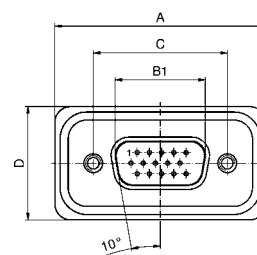
SOCKET CONNECTOR



No. of pos.	A	B2 ⁺⁰ / _{-0.25}	C	D
15	39.40 ^{+0.30} / _{-0.00}	16.46	25.00 ^{+0.12} / _{-0.13}	21.10 ^{+0.3} / ₋₀
26	47.70 ^{+0.30} / _{-0.00}	24.79	33.32 ^{+0.13} / _{-0.12}	21.10 ^{+0.3} / ₋₀
44	61.40 ^{+0.30} / _{-0.00}	38.50	47.04 ^{+0.13} / _{-0.12}	21.10 ^{+0.3} / ₋₀
62	78.00 ^{+0.30} / _{-0.00}	54.96	63.50 ^{+0.13} / _{-0.12}	21.10 ^{+0.3} / ₋₀
78	75.60 ^{+0.30} / _{-0.10}	52.55	61.10 ^{+0.14} / _{-0.11}	23.90 ^{+0.3} / _{-0.1}

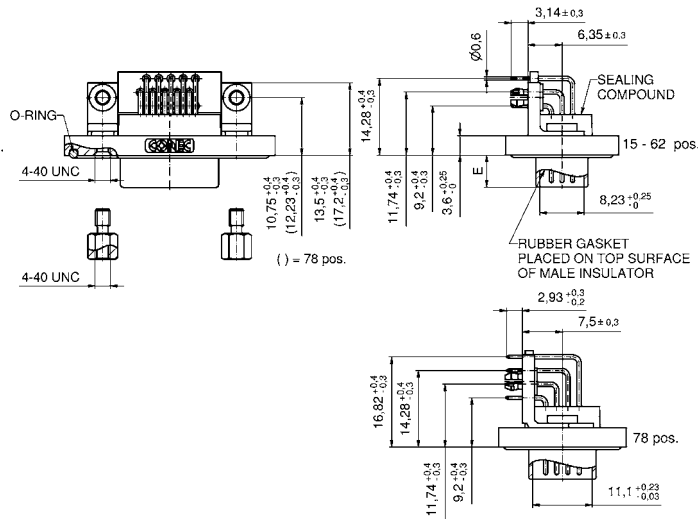
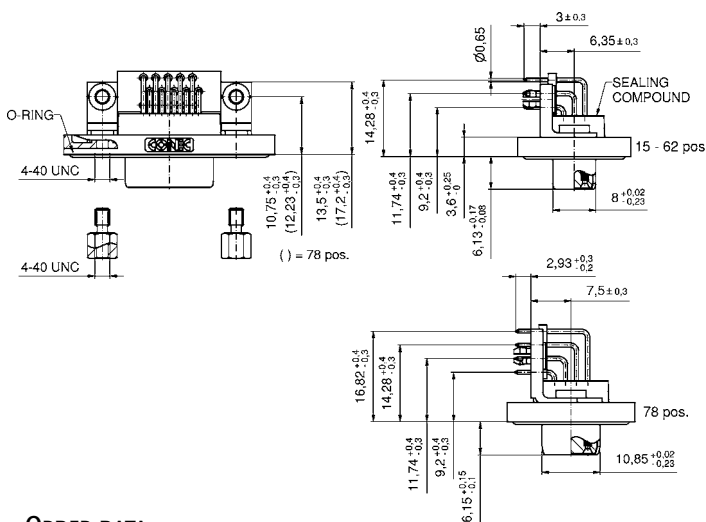
PCB-Layout: Kat1kHRA

PLUG CONNECTOR



No. of pos.	A	B1	C	D	E
15	39.4 ^{+0.30} / _{-0.00}	16.81 ^{+0.23} / _{-0.02}	25.00 ^{+0.12} / _{-0.12}	21.1 ^{+0.3} / ₋₀	6.00 ^{+0.12} / _{-0.18}
26	47.7 ^{+0.30} / _{-0.00}	25.14 ^{+0.23} / _{-0.02}	33.32 ^{+0.13} / _{-0.12}	21.1 ^{+0.3} / ₋₀	6.00 ^{+0.12} / _{-0.18}
44	61.4 ^{+0.30} / _{-0.00}	38.86 ^{+0.23} / _{-0.02}	47.04 ^{+0.13} / _{-0.12}	21.1 ^{+0.3} / ₋₀	5.99 ⁺⁰ / _{-0.3}
62	78.0 ^{+0.30} / _{-0.00}	55.32 ^{+0.23} / _{-0.02}	63.50 ^{+0.13} / _{-0.12}	21.1 ^{+0.3} / ₋₀	5.99 ⁺⁰ / _{-0.3}
78	75.6 ^{+0.30} / _{-0.10}	52.80 ^{+0.13} / _{-0.12}	61.10 ^{+0.14} / _{-0.11}	23.9 ^{+0.3} / _{-0.1}	5.99 ⁺⁰ / _{-0.3}

PCB-Layout: Kat1kHQA



ORDER DATA

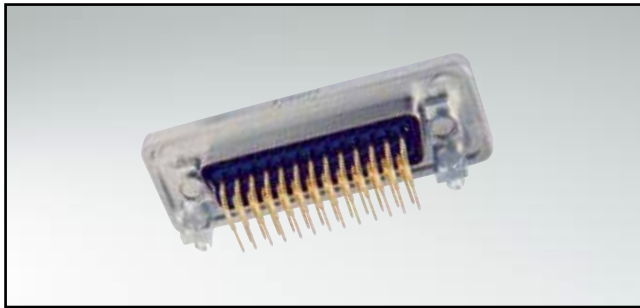
SOCKET CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
15	Mounting bracket /PCB clip	15-002243
26	Mounting bracket /PCB clip	15-002253
44	Mounting bracket /PCB clip	15-002263
62	Mounting bracket /PCB clip	15-002273
78	Mounting bracket /PCB clip	15-002283

PLUG CONNECTOR		
No. of pos.	Mounting style 4-40 UNC	Part Number
15	Mounting bracket /PCB clip	15-002193
26	Mounting bracket /PCB clip	15-002203
44	Mounting bracket /PCB clip	15-002213
62	Mounting bracket /PCB clip	15-002223
78	Mounting bracket /PCB clip	15-002233

PCB clip .122"/3.1 ± .004"/0.10 mm hole diameter and .063"/1.6 mm circuit board thickness

IP67 D-SUB HIGH DENSITY SOLID BODY

Solder pin – Angled – .484" / 12,3 mm – Precision machined contacts – Metal bracket

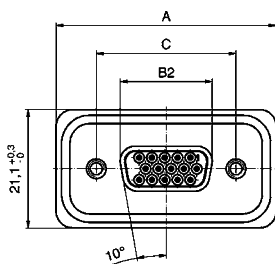


RoHS compliant - UL listed, File No. E202784

DESCRIPTION

- Mounting style:
Mounting bracket, 4-40 UNC PCB clip including hex locking bolt
- Quality class 3 (also available in quality class 1)
- One-piece zinc die-cast nickel plated shell
- IP67 for harsh environments, pressure-proof up to 1.45 PSI
- Higher protection on request

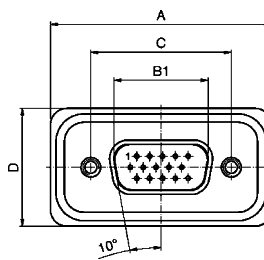
SOCKET CONNECTOR



No. of pos.	A +0.3	B2 +0 -0.25	C
15	39.40	16.46	25.00 ^{+0.12 -0.13}
26	47.70	24.79	33.32 ^{+0.12 -0.12}
44	61.40	38.50	47.04 ^{+0.13}
62	78.00	54.96	63.50 ^{+0.13}

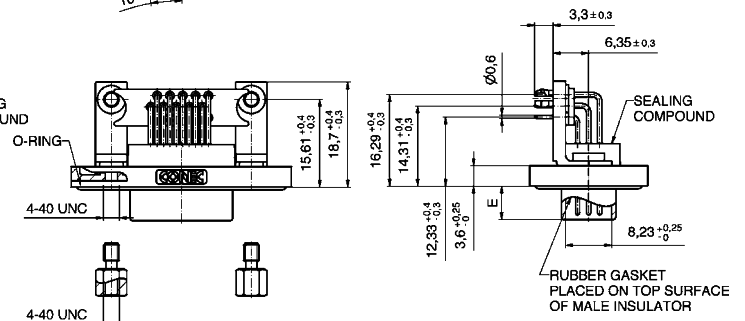
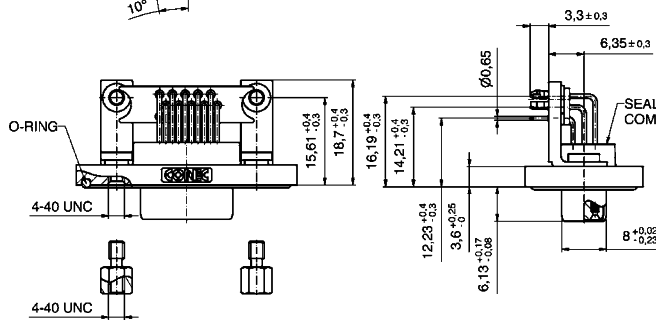
PCB-Layout: Kat1kgQA

PLUG CONNECTOR



No. of pos.	A +0.3	B1 +0 -0.25	C	D	E
15	39.40	16.81	25.00 ^{+0.12 -0.13}	21.10 ^{+0.3 0}	6.00 ^{+0.12 -0.16}
26	47.70	25.14	33.32 ^{+0.12 -0.12}	21.10 ^{+0.3 0}	6.00 ^{+0.12 -0.16}
44	61.40	38.86	47.04 ^{+0.13}	21.10 ^{+0.3 0}	5.99 ^{+0 -0.3}
62	78.00	55.32	63.50 ^{+0.13}	21.10 ^{+0.3 0}	5.99 ^{+0 -0.3}

PCB-Layout: Kat1kgRA



ORDER DATA

SOCKET CONNECTOR

No. of pos.	Mounting style 4-40 UNC	Part Number
15	Mounting bracket / PCB clip	15-000933
26	Mounting bracket / PCB clip	15-000943
44	Mounting bracket / PCB clip	15-000953
62	Mounting bracket / PCB clip	15-000963

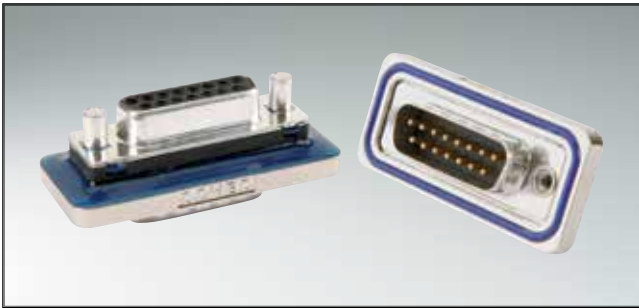
PLUG CONNECTOR

No. of pos.	Mounting style 4-40 UNC	Part Number
15	Mounting bracket / PCB clip	15-000893
26	Mounting bracket / PCB clip	15-000903
44	Mounting bracket / PCB clip	15-000913
62	Mounting bracket / PCB clip	15-000923

PCB clip .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness

IP67 D-SUB STANDARD

Interface adapter – Connector Saver

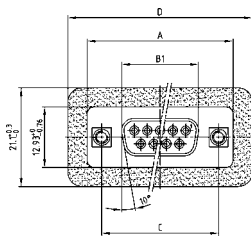


RoHS compliant - UL listed, File No. E202784

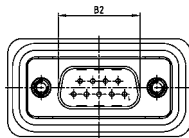
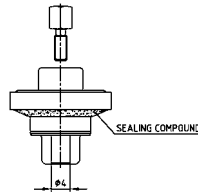
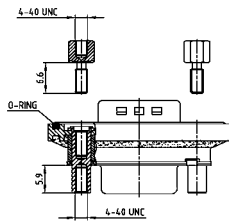
DESCRIPTION

- Plug to socket adapter
- Mounting style:
4-40 UNC threaded rear spacer including hex locking bolt
- Precision machined contacts
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated
- Nickel plated die-cast frame

PRODUCT DRAWING



No. of Pos.	A -0.76	B1 -0.25	B2 +0.25	C	D +0.3
9	31.19	16.46	16.79	25.00 ^{+0.12} / _{0.13}	39.40
15	39.52	24.79	25.12	33.30 ^{+0.15} / _{0.10}	47.70
25	53.42	38.50	38.84	47.04 ^{+0.13} / _{0.10}	61.40
37	69.70	54.96	55.30	63.50 ^{+0.13} / _{0.10}	77.90



ORDER DATA

ADAPTER PLUG CONNECTOR - SOCKET CONNECTOR

No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded rear spacer	6STD09AAA99B90X
15	Threaded rear spacer	6STD15AAA99B90X
25	Threaded rear spacer	6STD25AAA99B90X
37	Threaded rear spacer	6STD37AAA99B90X

CONVERSION TABLE

μm 1/1000 mm	μinch 1/1000 inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
0,10	4	3,30	.130	10,16	.400	19,50	.768	30,90	1.217	49,50	1.949
0,20	8	3,40	.134	10,26	.402	19,70	.776	31,00	1.220	49,90	1.965
0,25	10	3,50	.138	10,36	.406	19,80	.780	31,20	1.228	50,10	1.972
0,30	12	3,60	.142	10,56	.413	19,90	.783	31,50	1.240	50,30	1.980
0,50	20	3,70	.146	10,66	.417	20,00	.787	31,70	1.248	50,50	1.988
0,70	28	3,80	.150	10,76	.421	20,10	.791	32,00	1.260	50,70	1.996
0,75	30	3,81	.150	11,00	.433	20,30	.799	32,20	1.268	50,80	2.000
0,80	32	3,90	.154	11,20	.441	20,32	.800	32,30	1.272	51,40	2.024
1,00	39	4,00	.158	11,40	.449	20,50	.807	32,50	1.280	51,50	2.028
1,27	50	4,10	.161	11,50	.453	21,00	.827	32,80	1.291	52,00	2.047
2,00	79	4,20	.165	11,60	.457	21,10	.831	33,00	1.299	52,30	2.059
2,50	98	4,30	.169	11,90	.469	21,70	.854	33,10	1.303	52,80	2.079
3,00	118	4,50	.177	12,00	.472	22,00	.866	33,30	1.311	53,00	2.087
4,00	157	4,70	.185	12,20	.480	22,10	.870	33,80	1.331	53,20	2.095
5,00	197	4,90	.193	12,30	.484	22,20	.874	34,00	1.339	53,80	2.118
mm	inch	5,00	.197	12,40	.488	22,30	.878	34,20	1.346	54,00	2.126
0,10	.004	5,08	.200	12,50	.492	22,40	.882	34,40	1.354	54,20	2.134
0,20	.008	5,10	.201	12,70	.500	22,50	.886	35,00	1.378	54,90	2.161
0,25	.012	5,20	.205	12,90	.508	22,60	.890	35,40	1.394	55,00	2.165
0,35	.014	5,30	.209	13,00	.512	22,80	.898	35,50	1.398	55,40	2.181
0,40	.016	5,40	.213	13,10	.516	22,86	.900	35,56	1.400	55,70	2.193
0,45	.018	5,50	.217	13,20	.520	22,90	.902	35,60	1.402	56,60	2.228
0,50	.020	5,60	.220	13,50	.532	23,00	.906	36,00	1.417	57,40	2.260
0,55	.022	5,70	.224	13,60	.535	23,10	.909	36,50	1.437	57,80	2.276
0,60	.024	5,80	.228	13,70	.539	23,30	.917	36,60	1.441	57,90	2.280
0,64	.025	6,00	.236	13,90	.547	23,50	.925	36,70	1.445	58,42	2.300
0,65	.026	6,10	.240	14,00	.551	24,00	.945	37,00	1.457	59,00	2.323
0,70	.028	6,40	.252	14,30	.563	24,30	.957	37,30	1.469	59,20	2.331
0,75	.030	6,50	.256	14,40	.567	24,60	.969	37,50	1.476	59,80	2.354
0,80	.032	6,60	.260	14,50	.571	24,90	.980	37,60	1.480	59,90	2.358
0,85	.034	6,70	.264	14,70	.579	25,00	.984	37,70	1.484	60,00	2.362
0,90	.035	6,80	.268	14,80	.583	25,10	.998	37,90	1.492	60,96	2.400
1,00	.039	6,90	.272	14,90	.587	25,40	1.000	38,00	1.496	61,10	2.406
1,20	.047	7,00	.276	14,98	.590	25,60	1.008	38,10	1.500	62,00	2.441
1,25	.049	7,10	.280	15,00	.591	25,90	1.020	39,00	1.535	63,00	2.480
1,27	.050	7,20	.283	15,20	.598	26,00	1.024	39,20	1.543	63,50	2.500
1,30	.051	7,40	.291	15,24	.600	26,30	1.035	39,30	1.547	64,00	2.520
1,35	.053	7,50	.295	15,40	.606	26,60	1.047	39,90	1.571	65,00	2.560
1,40	.055	7,60	.299	15,50	.610	26,70	1.051	40,00	1.575	67,00	2.638
1,45	.057	7,62	.300	15,60	.614	27,00	1.063	40,30	1.587	68,00	2.677
1,50	.059	7,70	.303	15,90	.626	27,20	1.071	40,40	1.591	69,00	2.717
1,60	.063	7,80	.307	16,00	.630	27,40	1.079	40,60	1.598	70,00	2.756
1,70	.067	7,98	.314	16,20	.638	27,50	1.093	41,00	1.614	71,00	2.795
1,80	.071	8,00	.315	16,50	.650	27,90	1.098	41,60	1.638	74,00	2.913
1,85	.073	8,18	.318	16,60	.654	27,94	1.100	42,70	1.681	75,00	2.953
1,90	.075	8,20	.323	16,80	.661	28,00	1.102	43,18	1.700	76,20	3.000
2,00	.079	8,30	.327	17,00	.669	28,20	1.110	44,20	1.740	77,00	3.032
2,10	.083	8,40	.331	17,20	.677	28,50	1.122	44,80	1.764	78,74	3.100
2,20	.087	8,50	.335	17,30	.681	28,70	1.130	45,80	1.803	80,00	3.150
2,30	.091	8,60	.339	17,50	.689	29,00	1.142	46,30	1.823	81,28	3.200
2,40	.095	8,90	.350	17,60	.693	29,20	1.150	46,70	1.839	84,00	3.307
2,50	.098	9,00	.354	17,70	.697	29,40	1.158	47,00	1.850	85,00	3.346
2,54	.100	9,10	.358	17,78	.700	29,50	1.161	47,20	1.858	86,36	3.400
2,60	.102	9,20	.362	17,80	.701	29,70	1.169	47,30	1.862	88,90	3.500
2,70	.106	9,30	.366	17,90	.705	29,90	1.177	47,50	1.870	90,00	3.543
2,80	.110	9,40	.370	18,00	.709	30,00	1.181	47,80	1.882	91,44	3.600
2,84	.112	9,50	.374	18,10	.713	30,20	1.189	48,00	1.890	94,00	3.701
2,90	.114	9,60	.378	18,30	.721	30,40	1.197	48,10	1.894	95,00	3.740
3,00	.118	9,70	.382	18,60	.732	30,48	1.200	48,26	1.900	100,00	3.937
3,10	.122	9,90	.390	19,00	.748	30,50	1.201	48,80	1.921	110,00	4.331
3,20	.126	10,00	.395	19,20	.756	30,80	1.213	49,10	1.933	120,00	4.724

IP-CODE FIGURE DEFINITIONS

1. Code figure	Definition	Remark
0	Not protected	
1	Protected against access to hazardous parts by the back of the hand. Protected against fixed foreign objects $\varnothing \geq 1.969''/50$ mm.	
2	Protected against access to hazardous parts with a finger. Protected against fixed foreign objects $\varnothing \geq .492''/12.5$ mm.	
3	Protected against access to hazardous parts with a tool. Protected against fixed foreign objects $\varnothing \geq .098''/2.5$ mm.	
4	Protected against access to hazardous parts with a wire. Protected against fixed foreign objects $\varnothing \geq .039''/1$ mm.	
5	Protected against access to hazardous parts with a wire. Dust protected.	Ingress of dust is not completely blocked. But dust may not penetrate to the extent that satisfactory operation of the device or safety is impaired.
6	Protected against access to hazardous parts with a wire. Dustproof. No ingress of dust.	
2. Code figure	Definition	Remark
0	Not protected	
1	Protected against dropper.	
2	Protected against dropper when the shell is tipped as much as 15°.	
3	Protected against spray water	Up to 60° of either side of the vertical, such spray water shall have no harmful effects.
4	Protected against splash water	On the shell from all directions, no harmful effects shall be incurred.
5	Protected against jets of water.	
6	Protected against strong jets of water.	
7	Protected against the effects of temporary submersion in water.	Water may not ingress in a volume that would cause harmful effects when the shell is submerged in water for 30 min at a depth of 1 m.
8	Protected against the effects of continuous submersion in water.	Water may not ingress in a volume that would cause harmful effects when the shell is continuously submerged in water under conditions agreed between manufacturer and user. However, these conditions must be more stringent than those described under code figure 7.
9k	Protected against water from high-pressure or steam cleaning.	

Explanation to spray water protected (IP) systems and their environment.

This system, described in IEC 60529, was developed to represent standard values for respective protection:

- a) Contact with, and ingress of, fixed foreign objects
- b) The ingress of liquids to which the inside is to be exposed.

The first digit describes the level of protection for life, contacting objects and the intrusion of foreign bodies. The second digit describes the level of protection against the ingress of liquids. The larger the first and second digits are, the greater afforded protection is, e.g. IP55 must also meet the requirements of all lower protection levels, such as IP22, IP23, IP34 and IP54.

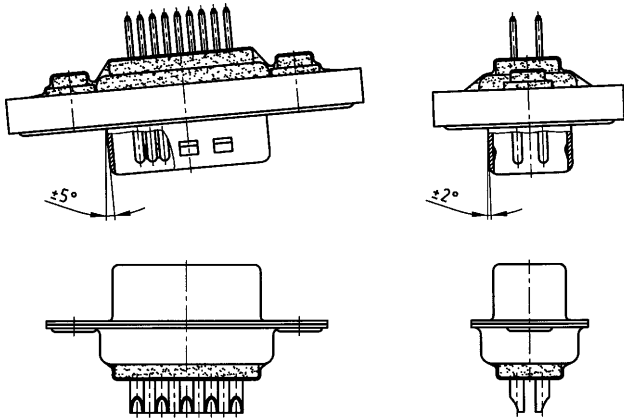
TECHNICAL DATA

Materials	D-Subminiature, Standard 9, 15, 25, 37 and 50 position	D-Subminiature, High Density 15, 26, 44, 62 and 78 position		
Insulator	Polyester GF UL94 V-0			
Contacts	CU alloy			
Contact plating	Gold plated over nickel			
Shell	Brass tin plated (Standard) Stainless steel on request			
Mechanical and electrical characteristics				
Test voltage U eff/NN	1000 V			
Working voltage	125 V ≈ 60 V ≈ depending on isolation coordination (refer to DIN VDE 0110/IEC 664-1)			
Current rating	7.5 A (UL) / 5 A (CSA,VDE)	3 A (UL,VDE) / 2.5 A (CSA)		
Contact resistance	max. 10 mΩ prior to stressing, Δ R max. 10 mΩ after stressing per DIN 41652, Part 2			
Insulation resistance	≥ 5 GΩ			
Clearance and creepage distance	contact – contact ≥ .04"/1.0 mm contact – earth ≥ .047"/1.2 mm	≥ .024"/0.6 mm		
Operating temperature	– 25 °C to + 105 °C			
Mating and unmating forces	9 pos. ≤ 30 N 15 pos. ≤ 50 N 25 pos. ≤ 83 N 37 pos. ≤ 123 N 50 pos. ≤ 167 N	15 pos. ≤ 50 N 26 pos. ≤ 84 N 44 pos. ≤ 120 N 62 pos. ≤ 170 N 78 pos. ≤ 200 N		
Quality class	A = Quality class 3 = 50 mating cycles B = Quality class 2 = 200 mating cycles C = Quality class 1 = 500 mating cycles			
Recommended wave-solder parameters	Preheating		Solder terminal dipping parameters	
	max. Temperature	Duration	max. Solder bath Temperature	max. Terminal Immersion Time
D-SUB Water Resistant	120°C	120s	240°C	5s
D-SUB Solid Body Type Water Resistant	150°C	180s	265°C	8s

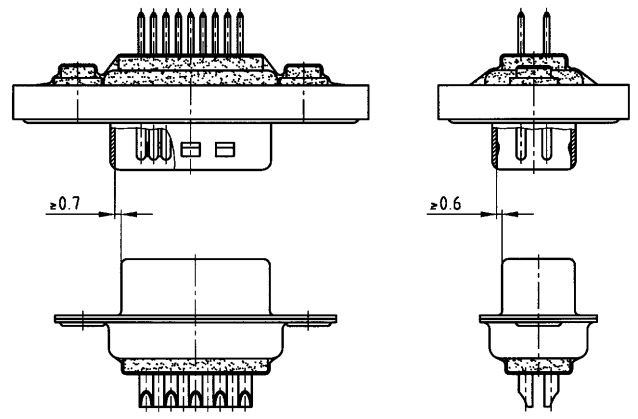
Technical specifications are subject to change without notice.

MATING CONDITIONS

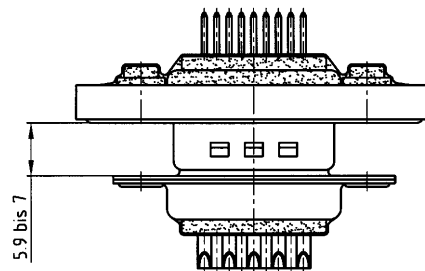
Float mount tolerance guide



Rigid mount tolerance guide



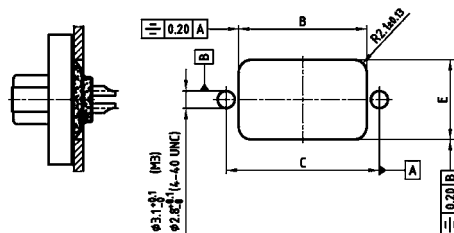
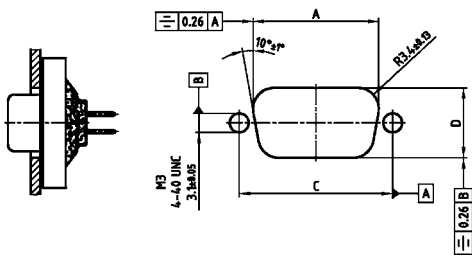
Rigid mount vertical to tolerance guide



PANEL CUT-OUT

Rear panel mounting IP67 D-SUB Connectors

Front panel mounting IP67 D-SUB Connectors

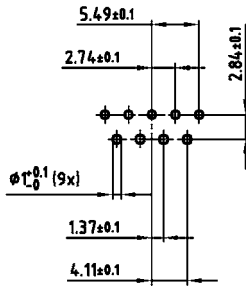


Shell size	A ±0.1	B ±0.1	C ±0.1	D ±0.1	E ±0.1
1	20.50	20.90	25.00	11.40	13.00
2	28.80	29.20	33.30	11.40	13.00
3	42.50	42.90	47.04	11.40	13.00
4	59.10	59.40	63.50	11.40	13.00
5	56.30	57.00	61.10	14.10	15.80

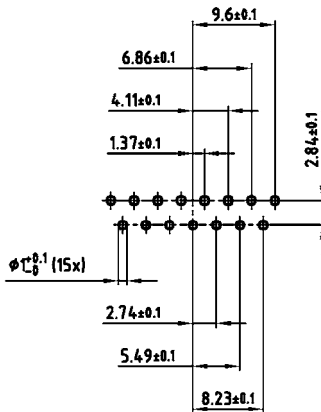
PCB LAYOUT D-SUB STANDARD

Solder pin, straight – without rear spacer PCB clip – Plug and Socket connector

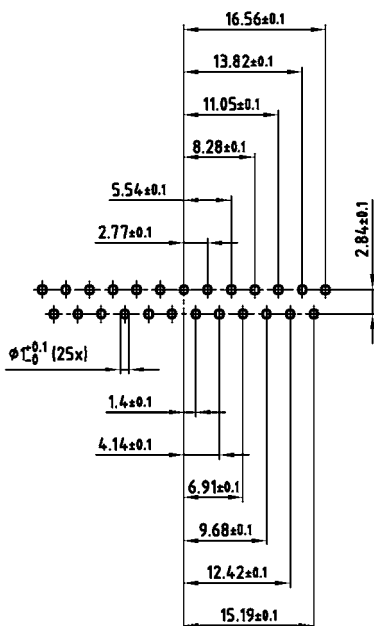
9 POS.



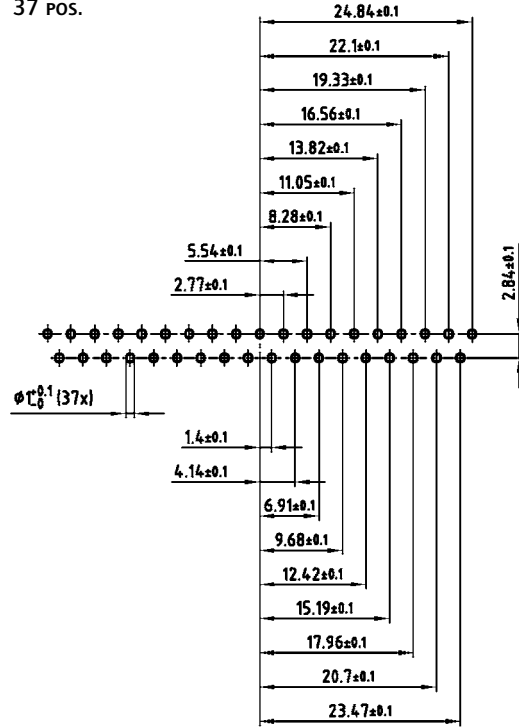
15 POS.



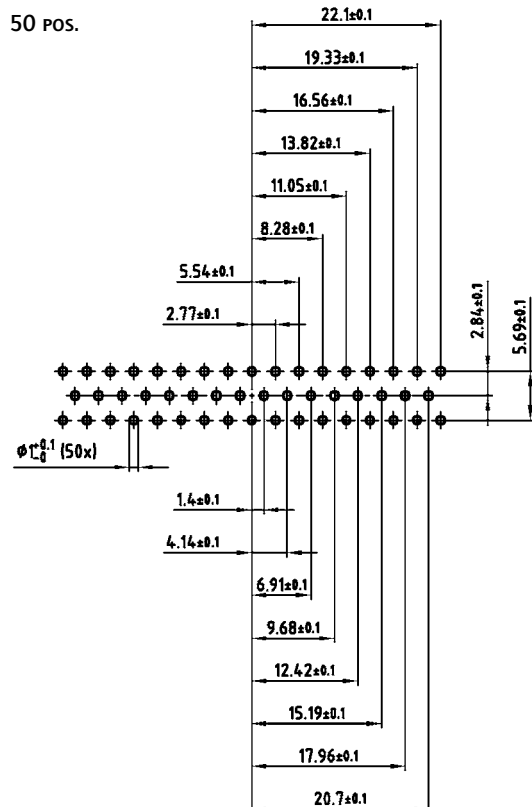
25 POS.



37 POS.



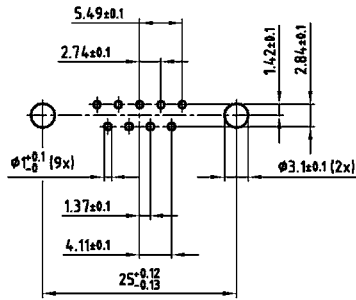
50 POS.



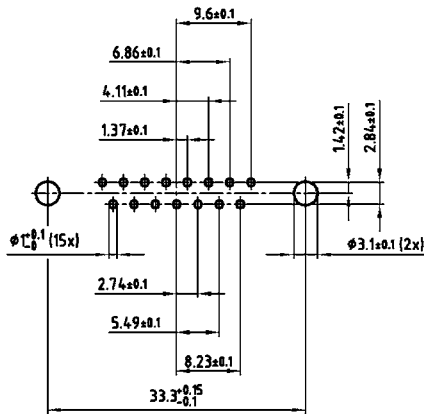
PCB LAYOUT D-SUB STANDARD

Solder pin, straight – With rear spacer PCB clip – Plug and Socket connector

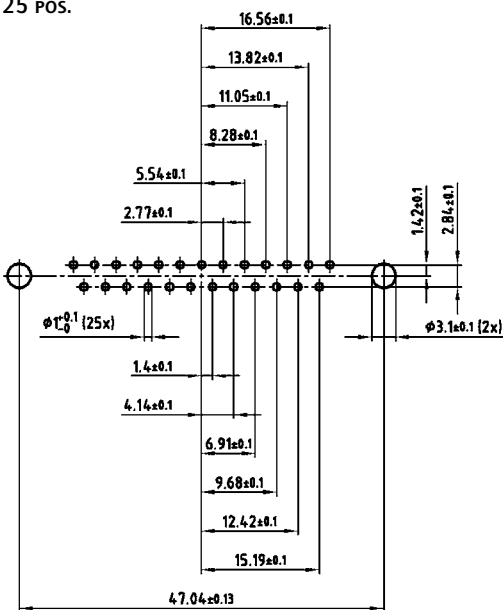
9 POS.



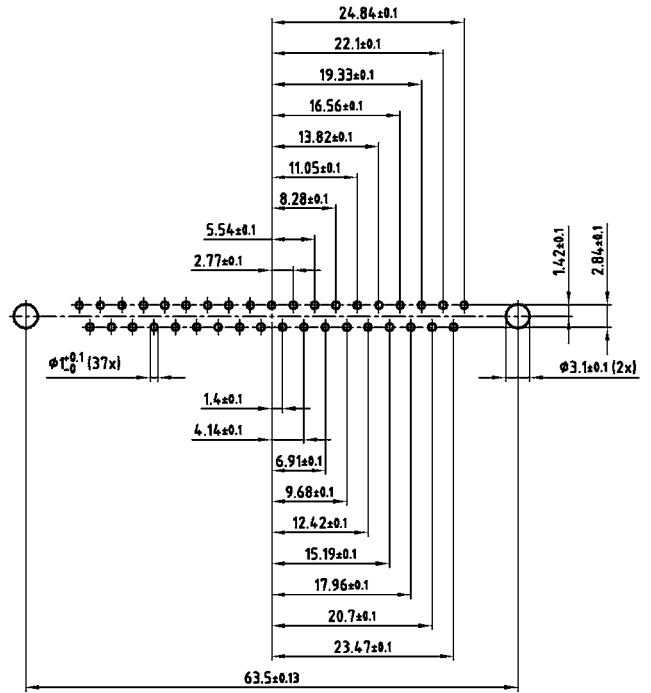
15 POS.



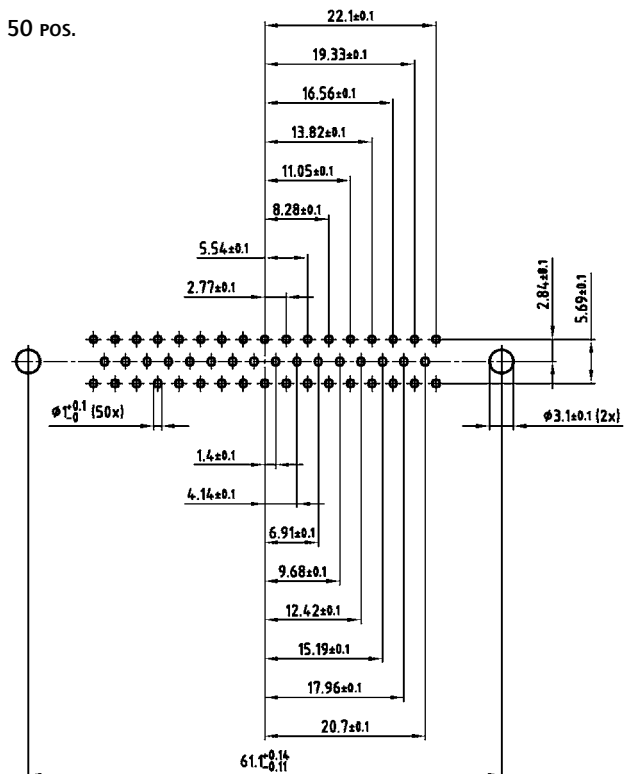
25 POS.



37 POS.



50 POS.

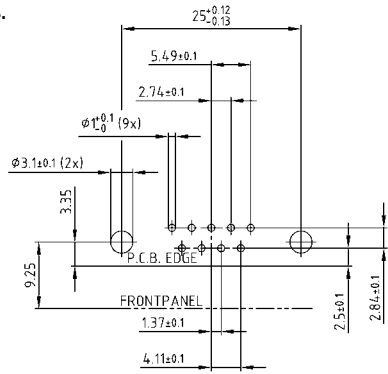


PCB layout Kat1kFUA (View: component side)

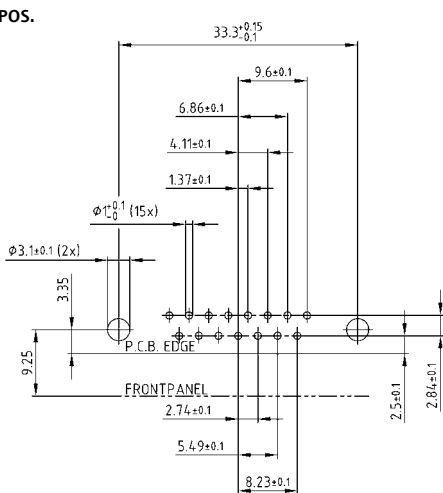
PCB LAYOUT D-SUB STANDARD

Solder pin, angled, .189" / 4.8 mm – Plug and Socket connector

9 POS.



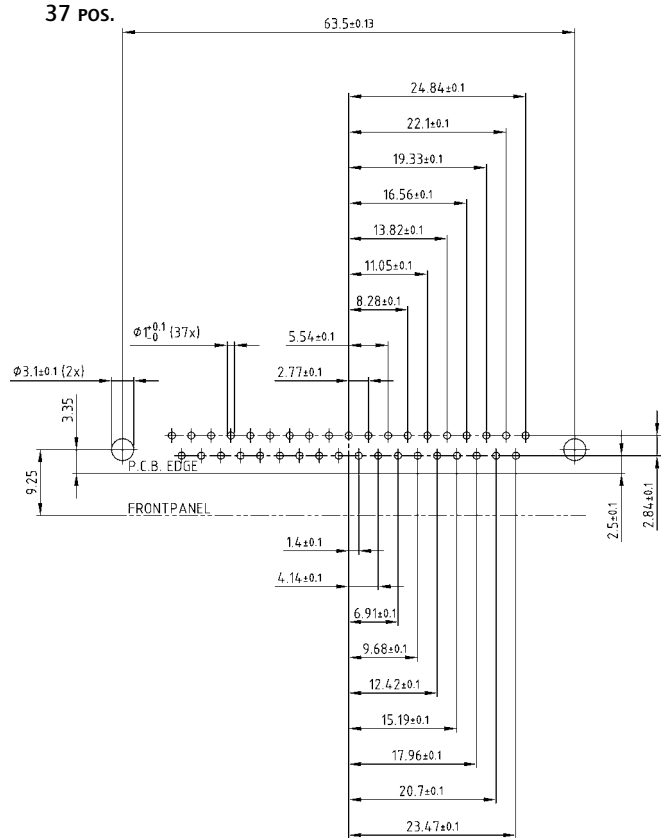
15 POS.



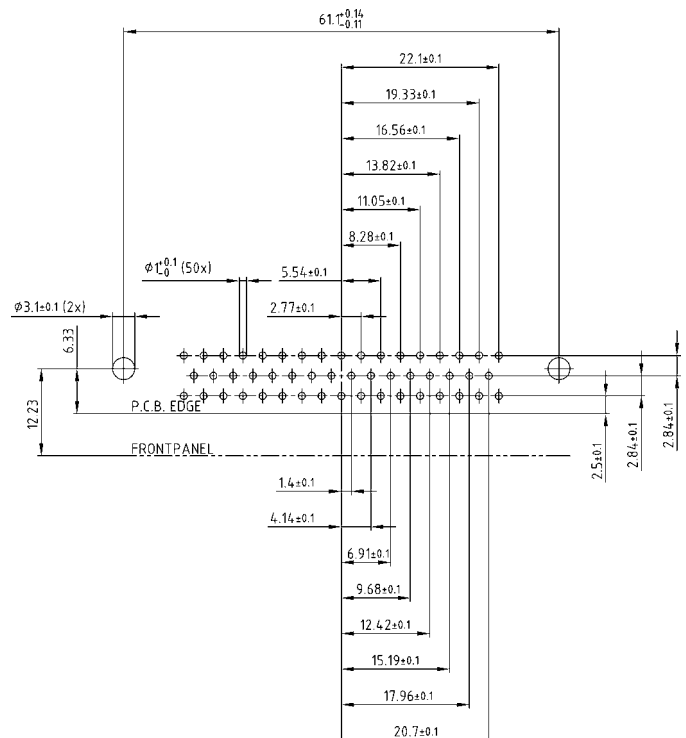
25 POS.



37 POS.



50 POS.

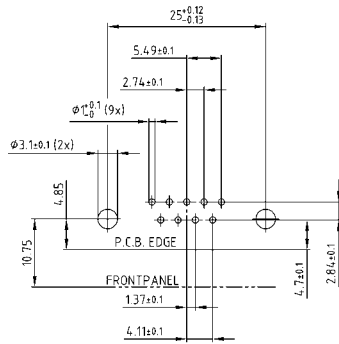


PCB layout Kat1kgSA (View: component side)

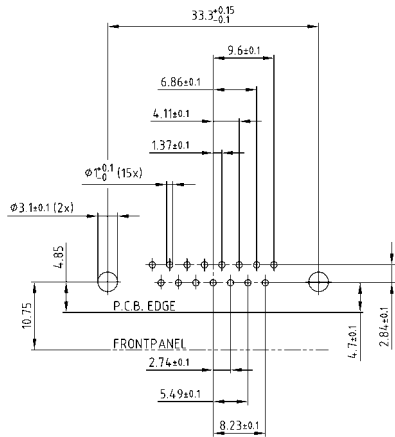
PCB LAYOUT D-SUB STANDARD

Solder pin, angled, .276" / 7.0 mm – Plug and Socket connector

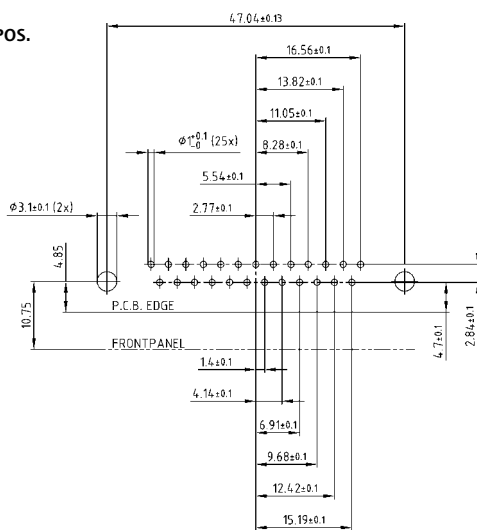
9 pos.



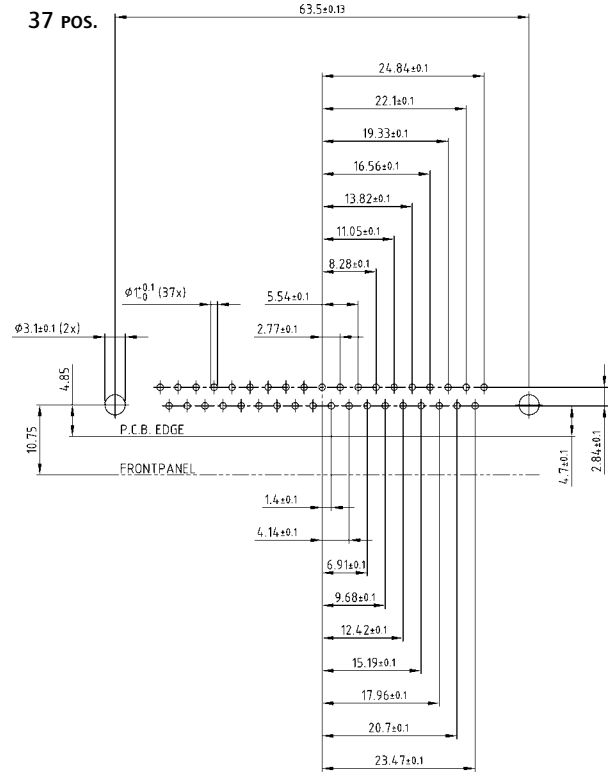
15 pos.



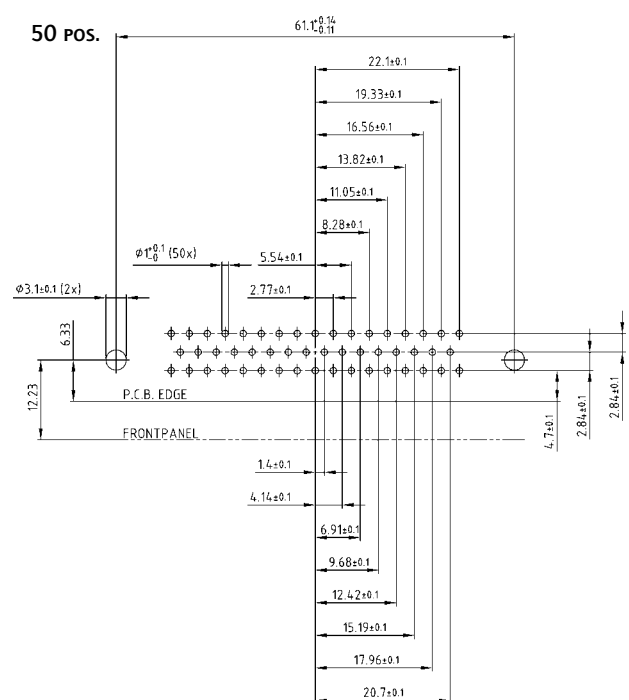
25 pos.



37 pos.



50 pos.

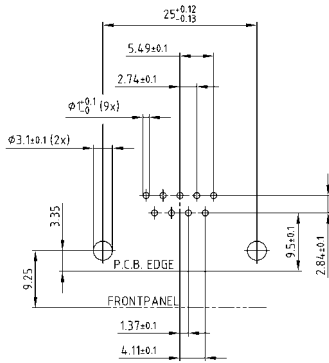


PCB layout Kat1kGTA (View: component side)

PCB LAYOUT D-SUB STANDARD

Solder pin, angled, .464" / 11.8 mm – Plug and Socket connector

9 pos.



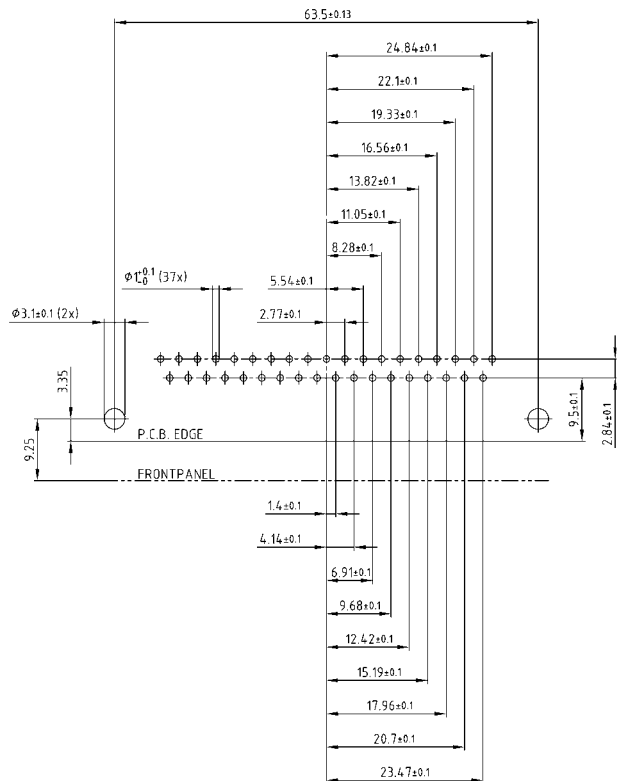
25 pos.



15 pos.



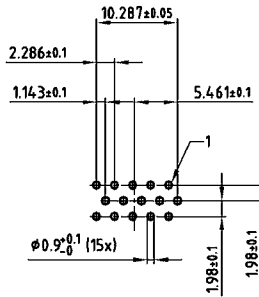
37 pos.



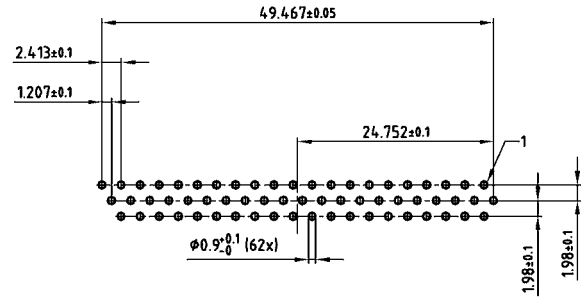
PCB LAYOUT D-SUB HIGH DENSITY

Solder pin, straight – without rear spacer PCB clip – Socket connector

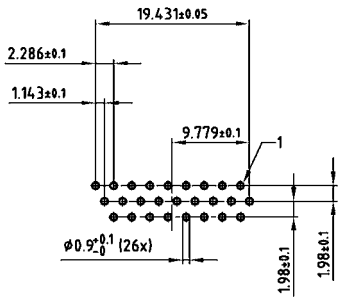
15 POS.



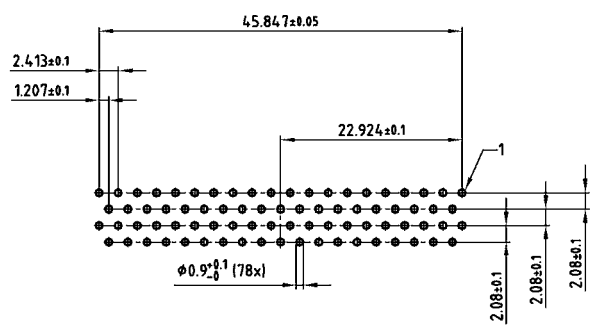
62 POS.



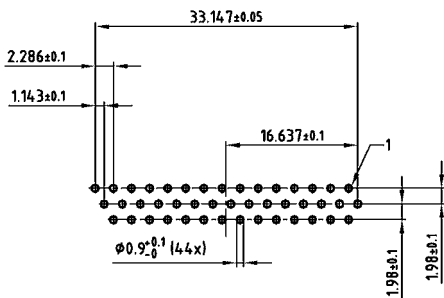
26 POS.



78 POS.



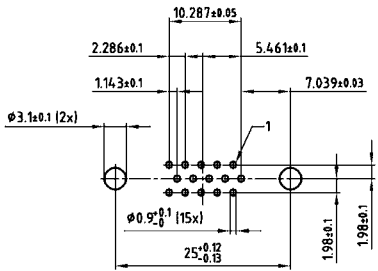
44 POS.



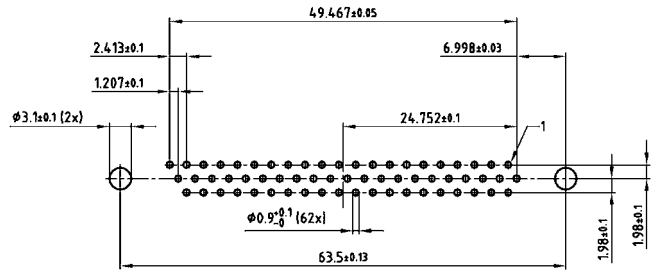
PCB LAYOUT D-SUB HIGH DENSITY

Solder pin, straight – With rear spacer PCB clip – Socket connector

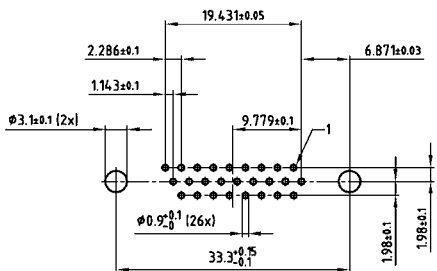
15 POS.



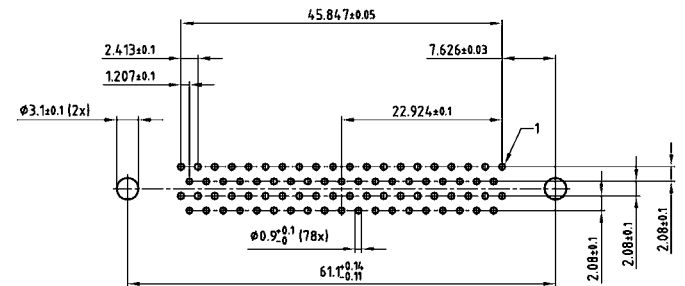
62 POS.



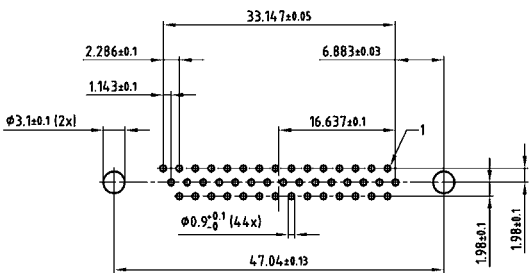
26 POS.



78 POS.



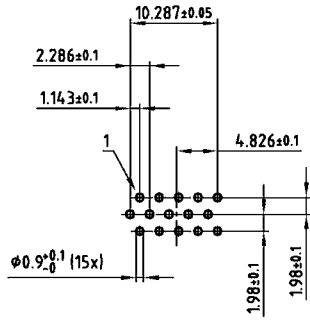
44 POS.



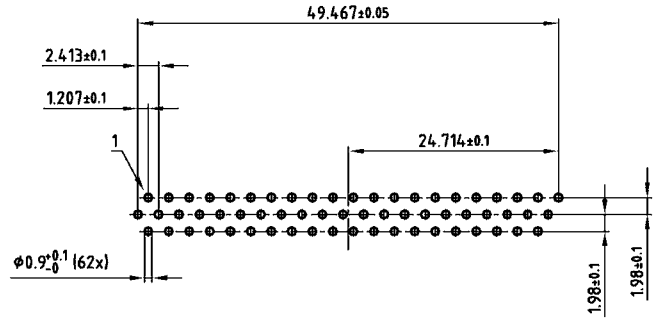
PCB LAYOUT D-SUB HIGH DENSITY

Solder pin, straight – Without rear spacer PCB clip – Plug connector

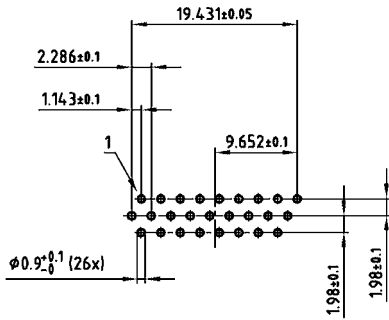
15 POS.



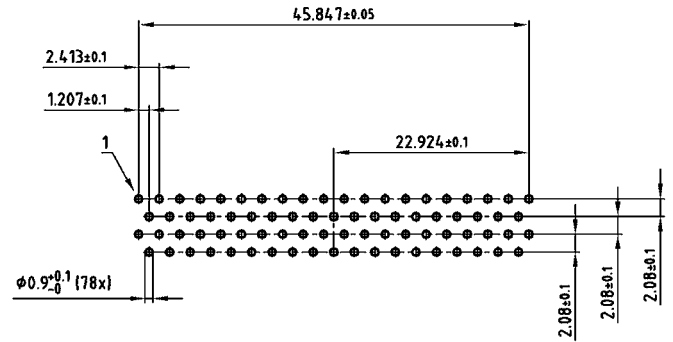
62 POS.



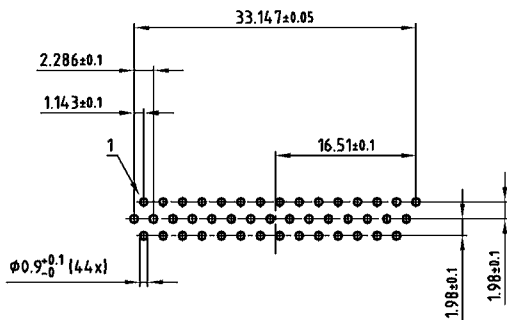
26 POS.



78 POS.



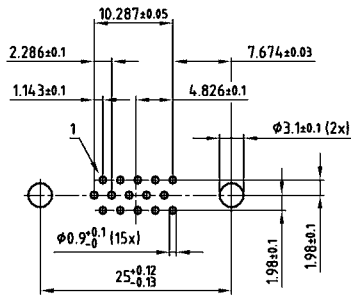
44 POS.



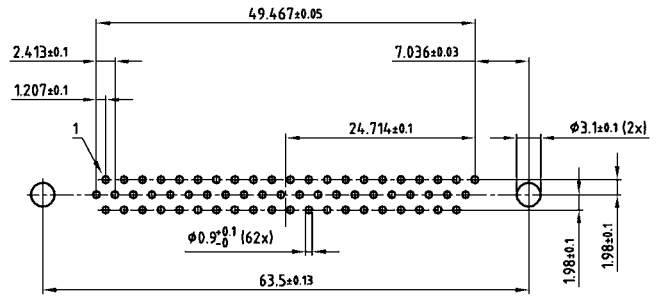
PCB LAYOUT D-SUB HIGH DENSITY

Solder pin, straight – With rear spacer PCB clip – Plug connector

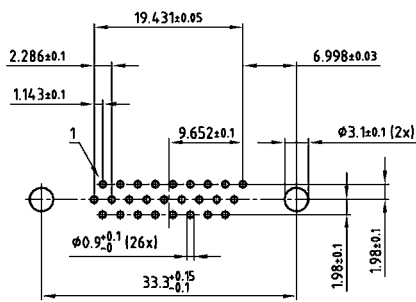
15 pos.



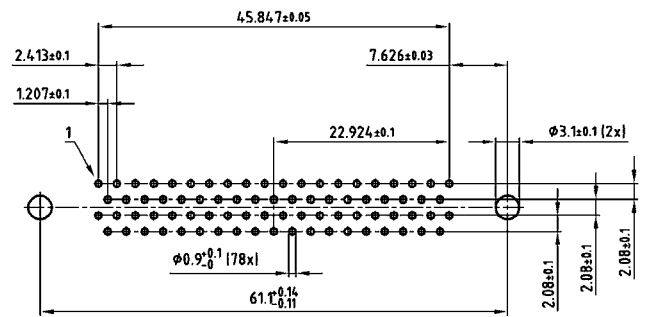
62 pos.



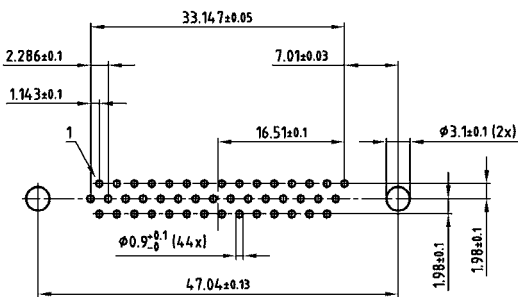
26 pos.



78 pos.



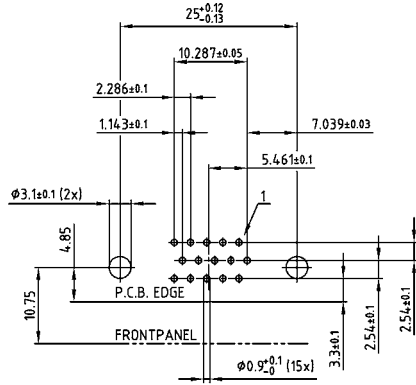
44 pos.



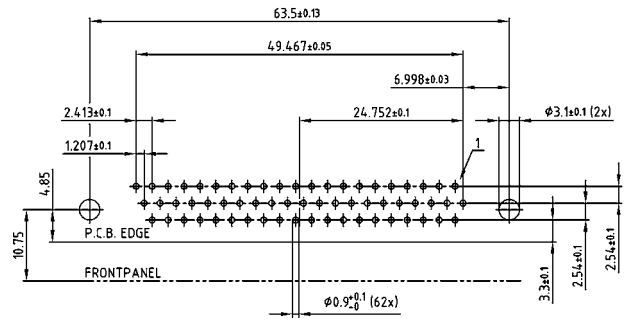
PCB LAYOUT D-SUB HIGH DENSITY

Solder pin, angled, .220" / 5.6 mm – Socket connector

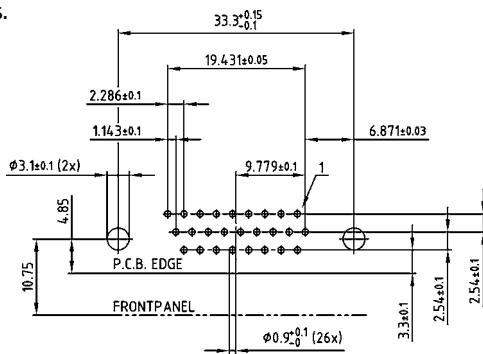
15 pos.



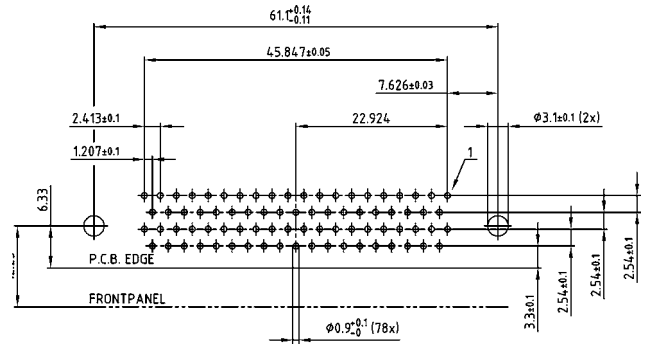
62 pos.



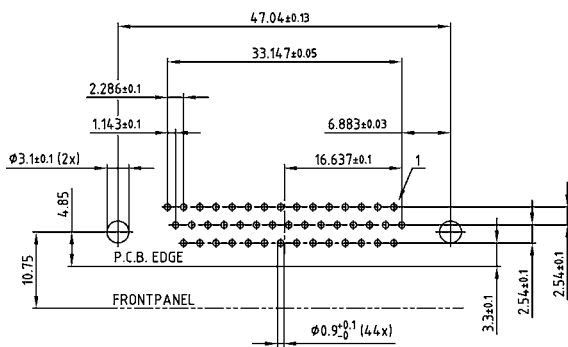
26 pos.



78 pos.

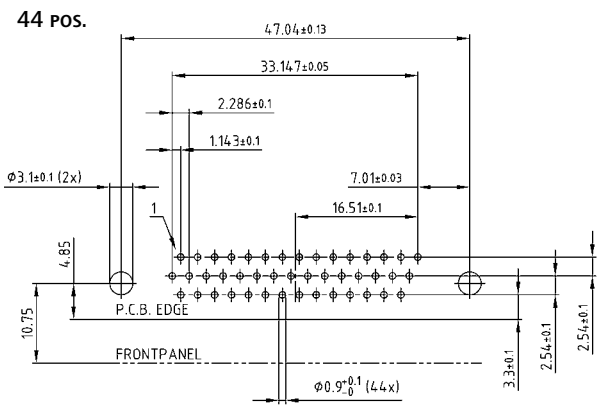
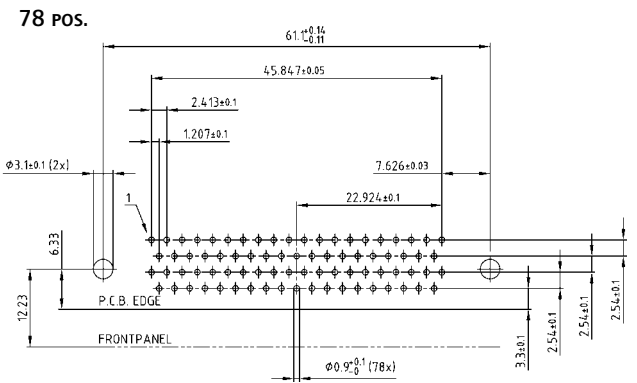
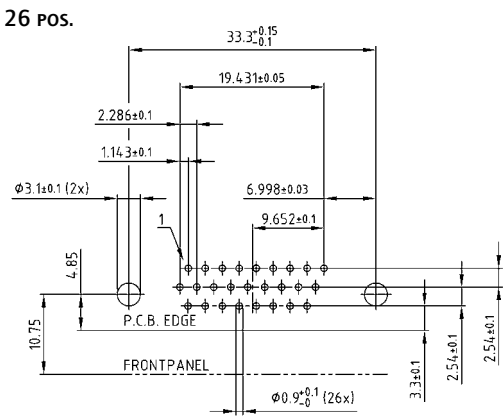
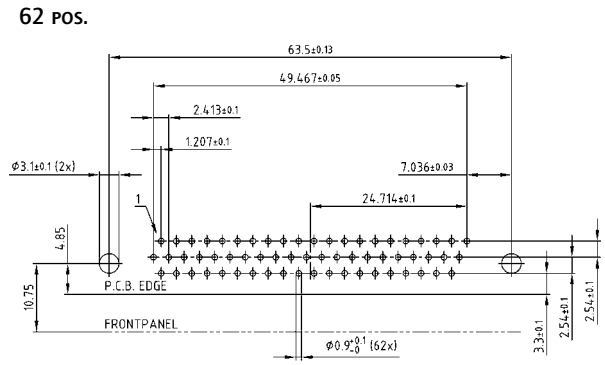
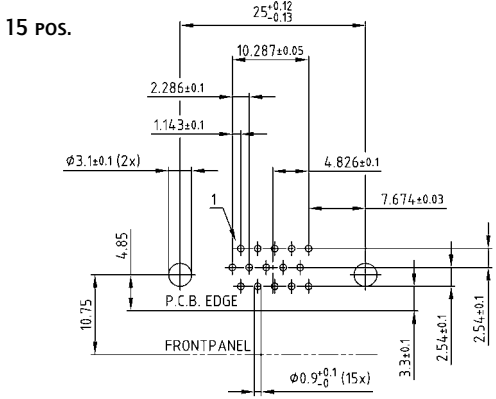


44 pos.



PCB LAYOUT D-SUB HIGH DENSITY

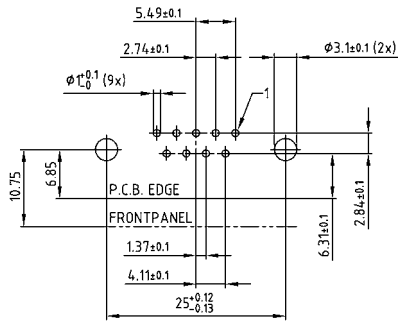
Solder pin, angled, .220" / 5.6 mm – Plug connector



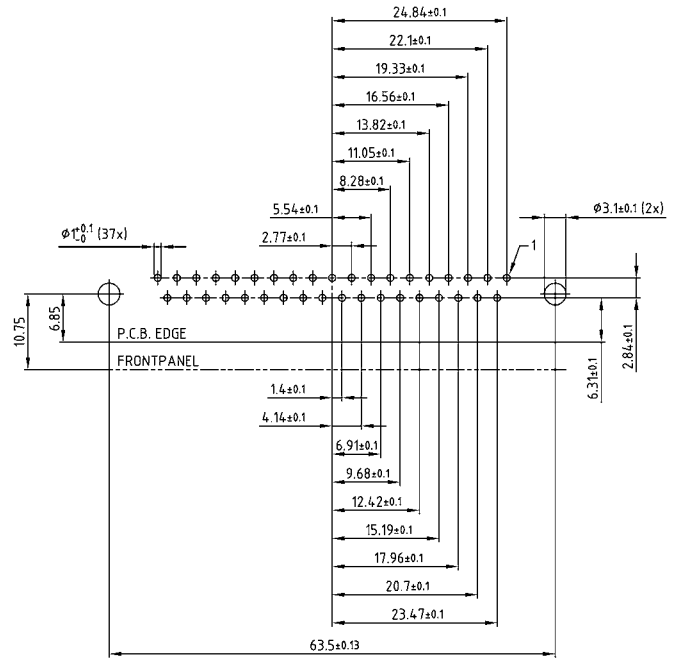
PCB LAYOUT D-SUB SOLID BODY

Solder pin, angled, .402" / 10.2 mm – Socket connector

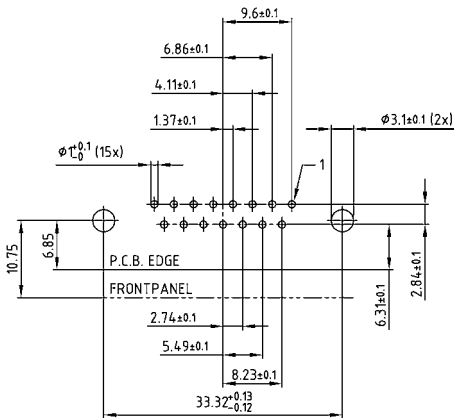
9 pos.



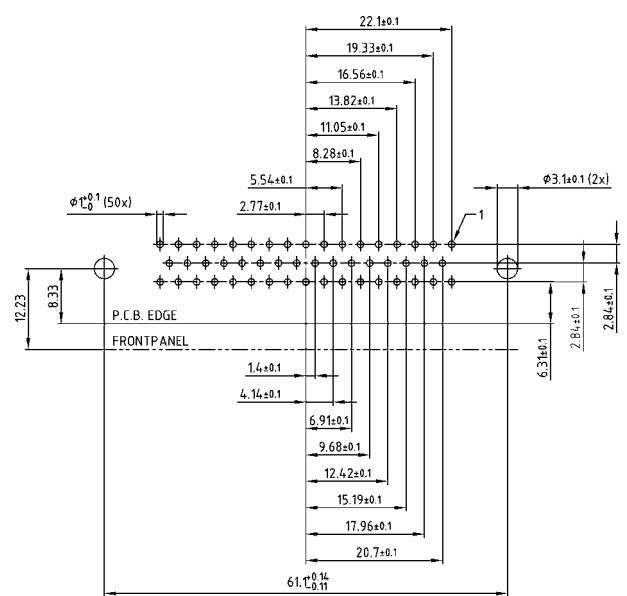
37 pos.



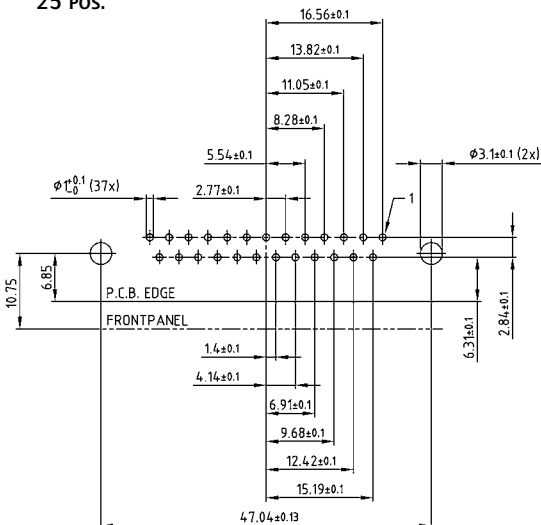
15 pos.



50 pos.



25 pos.

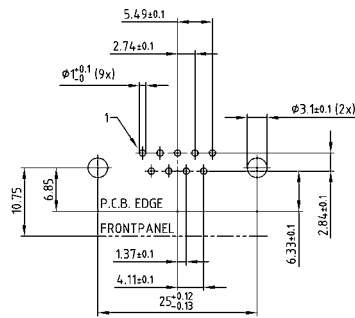


PCB layout Kat1 kgMA (View: component side)

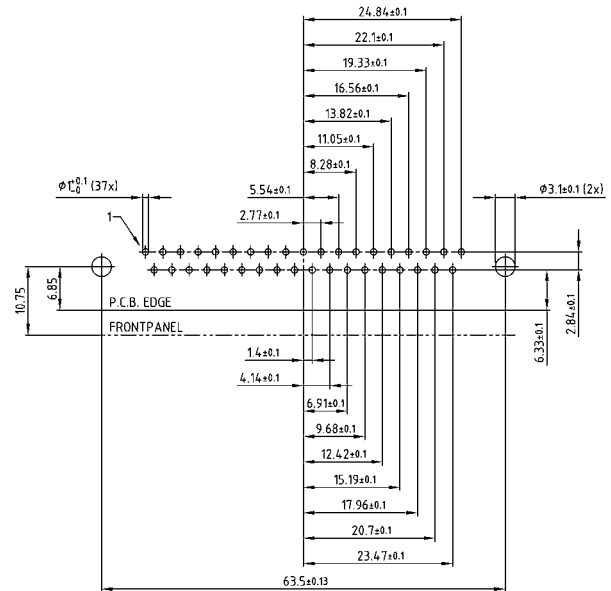
PCB LAYOUT D-SUB SOLID BODY

Solder pin, angled, .402" / 10.2 mm – Plug connector

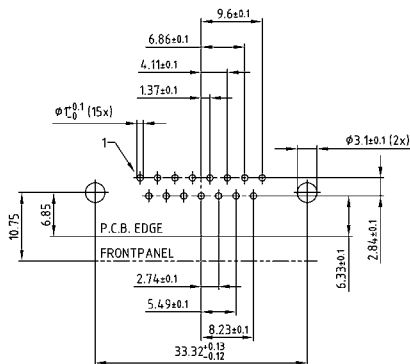
9 POS.



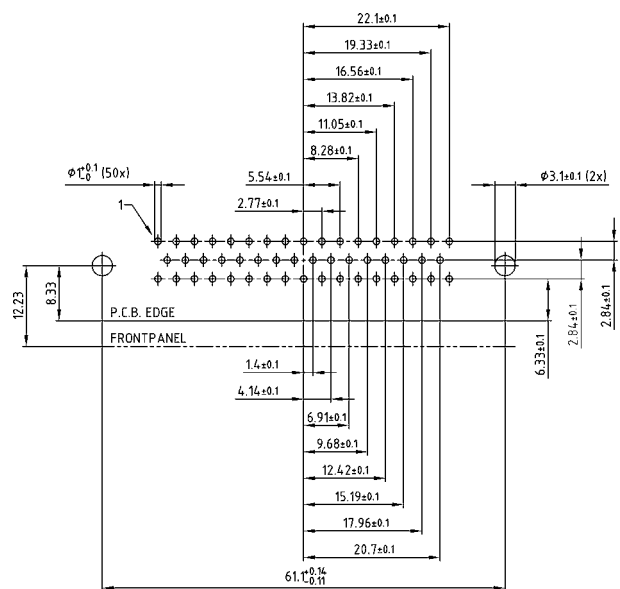
37 POS.



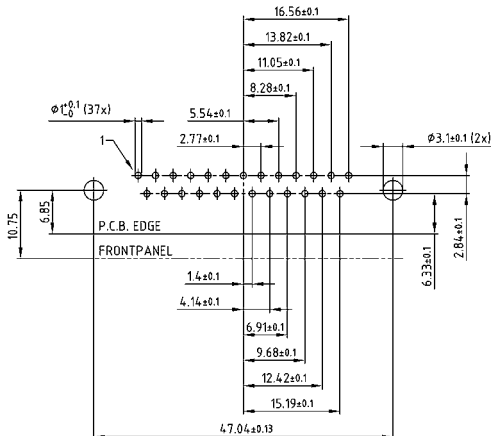
15 POS.



50 POS.



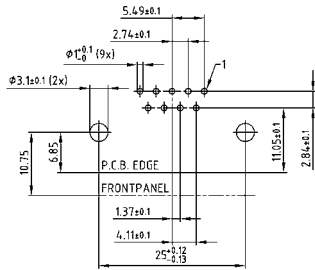
25 POS.



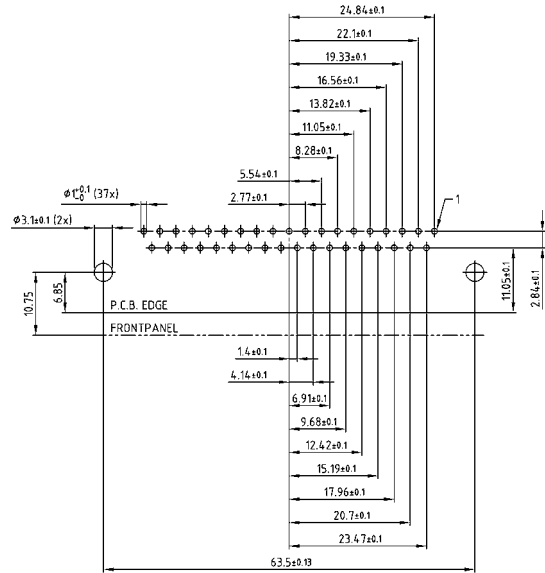
PCB LAYOUT D-SUB SOLID BODY

Solder pin, angled, .587" / 14.9 mm – Socket connector

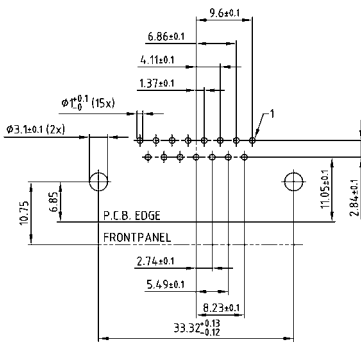
9 pos.



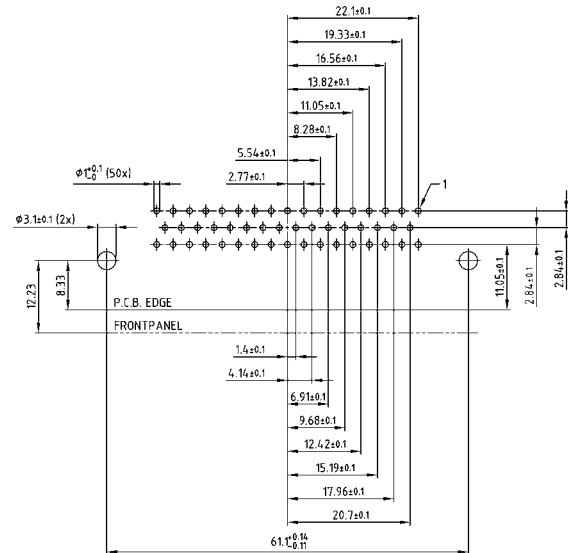
37 pos.



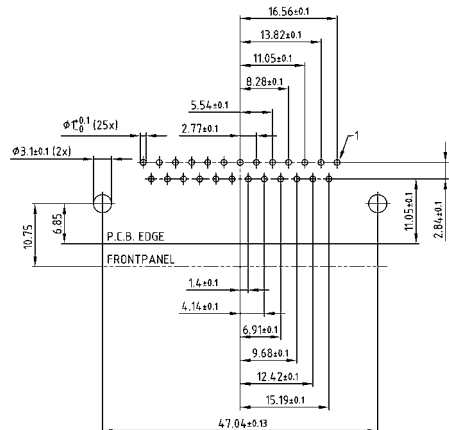
15 pos.



37 pos.



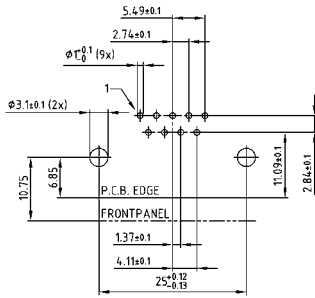
25 pos.



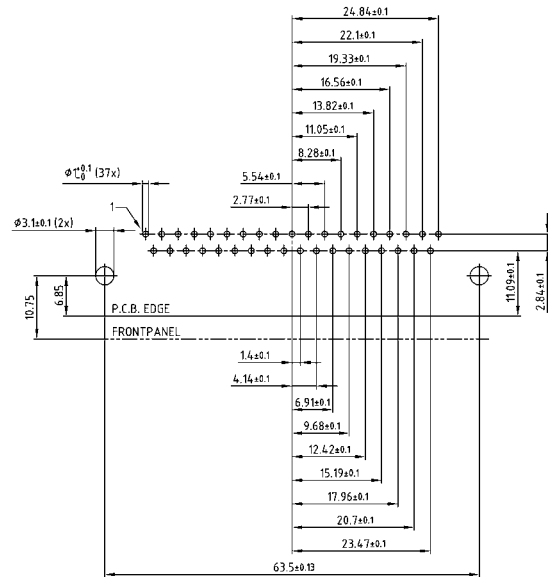
PCB LAYOUT D-SUB SOLID BODY

Solder pin, angled, .587" / 14.9 mm – Plug connector

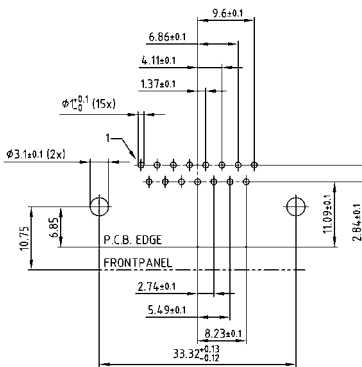
9 pos.



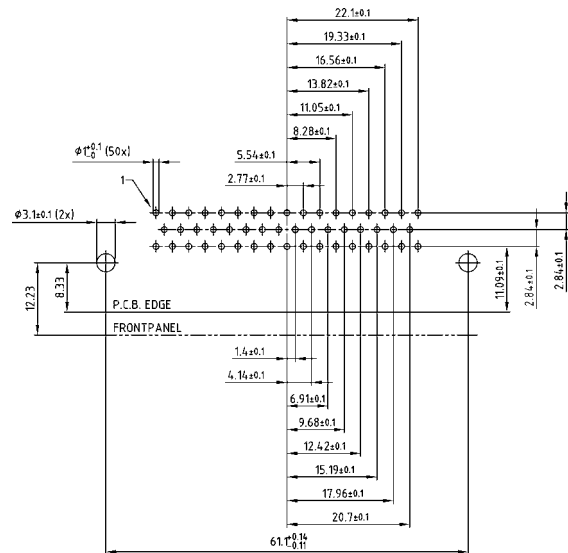
37 pos.



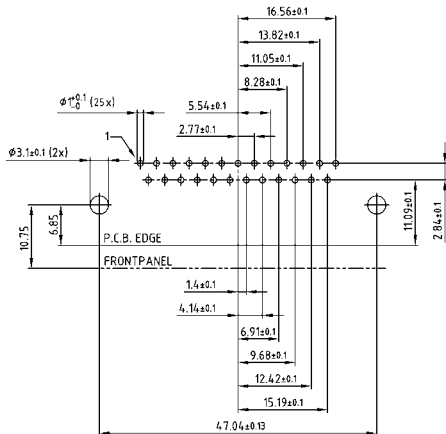
15 pos.



50 pos.



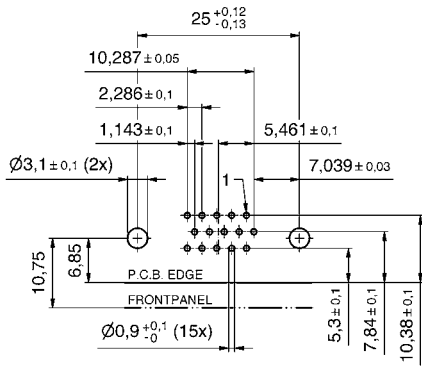
25 pos.



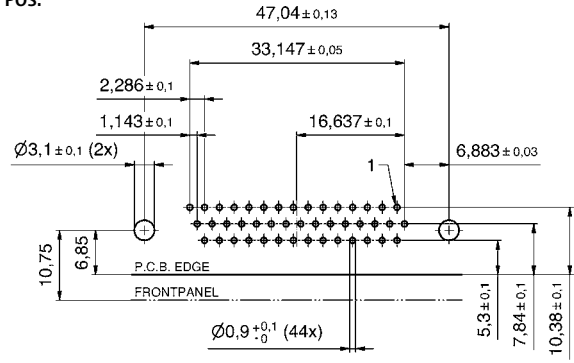
PCB LAYOUT D-SUB HIGH DENSITY SOLID BODY

Solder pin, angled, .484" / 12.3 mm – Socket connector

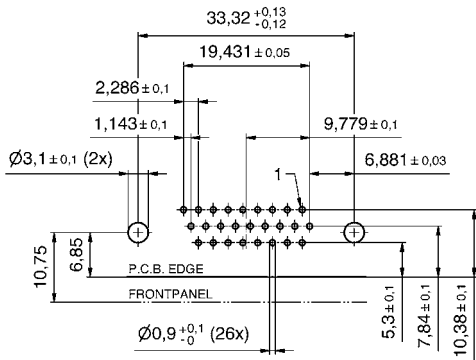
15 POS.



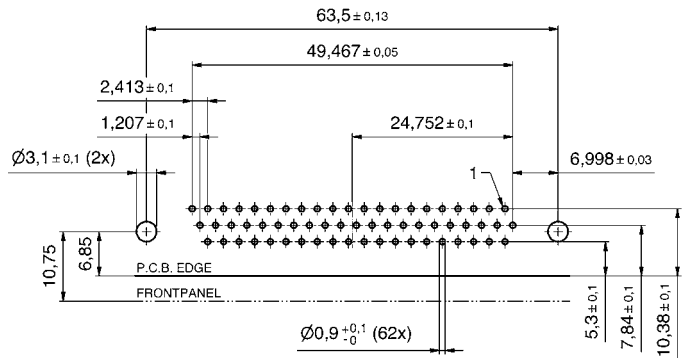
44 POS.



26 POS.



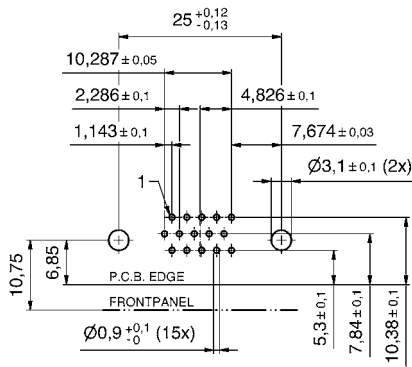
62 POS.



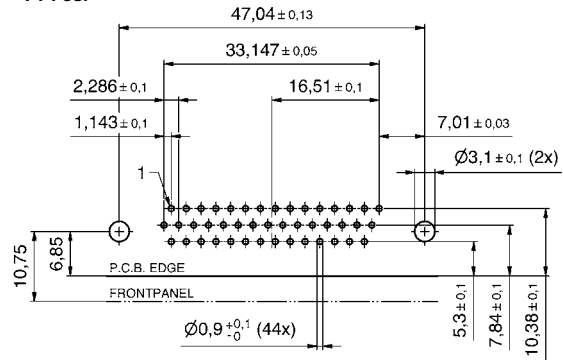
PCB LAYOUT D-SUB HIGH DENSITY SOLID BODY

Solder pin, angled, .484" / 12.3 mm – Plug connector

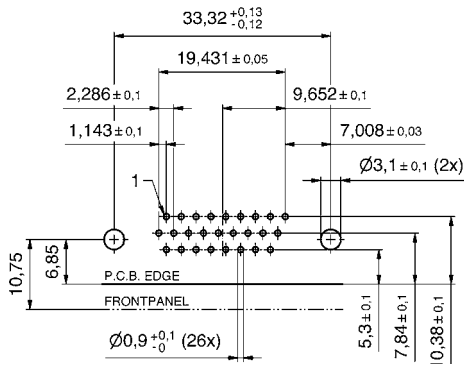
15 POS.



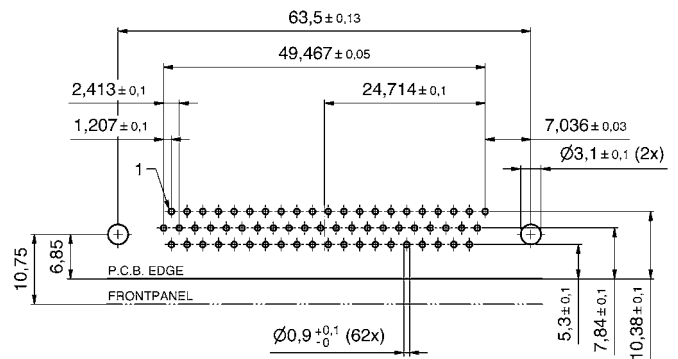
44 POS.



26 POS.



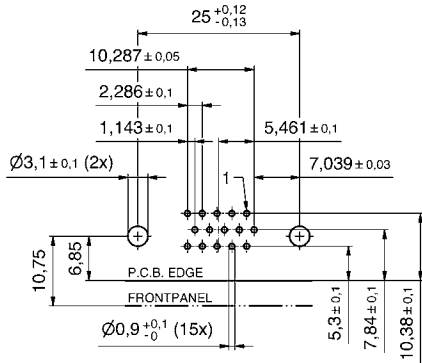
62 POS.



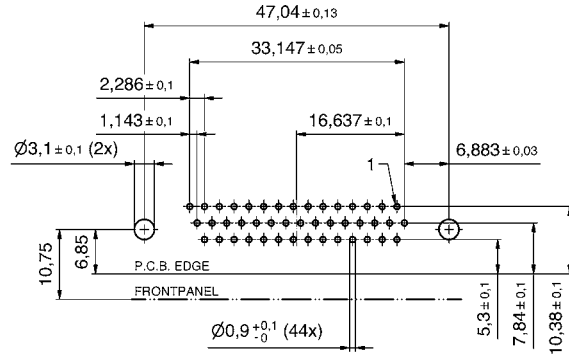
PCB LAYOUT D-SUB HIGH DENSITY SOLID BODY

Solder pin, angled, .362" / 9,2 mm – Socket connector

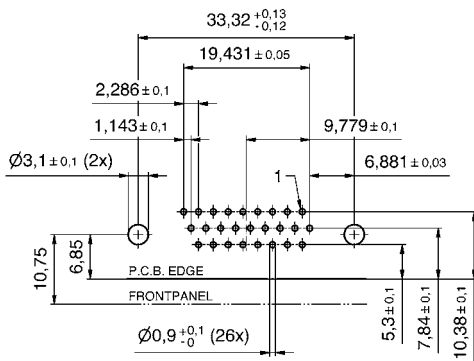
15 POS.



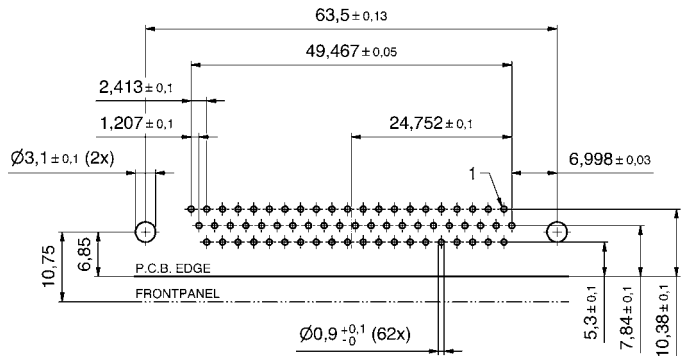
44 POS.



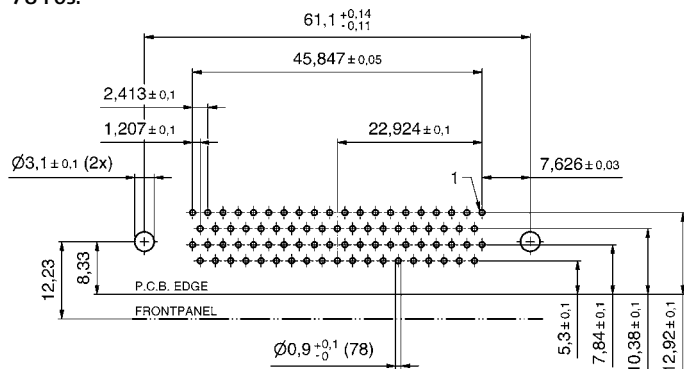
26 POS.



62 POS.



78 POS.

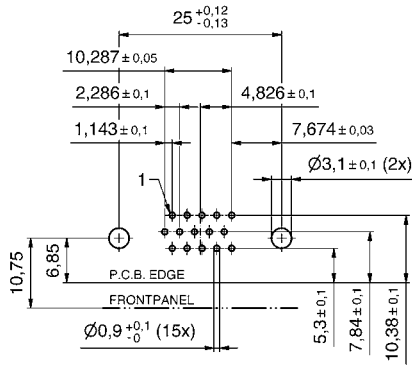


PCB layout Kat1 kHRA (View: component side)

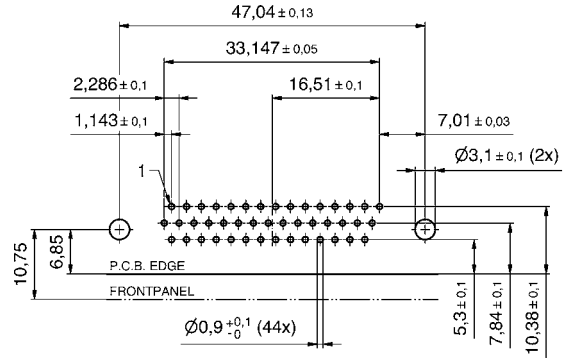
PCB LAYOUT D-SUB HIGH DENSITY SOLID BODY

Solder pin, angled, .362" / 9,2 mm – Plug connector

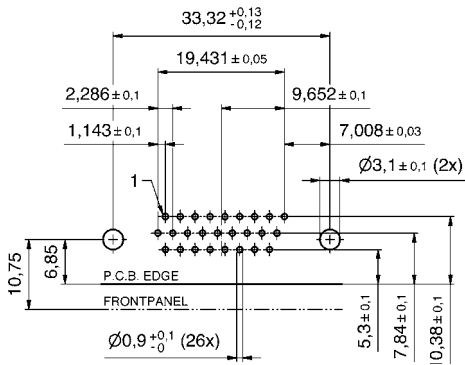
15 pos.



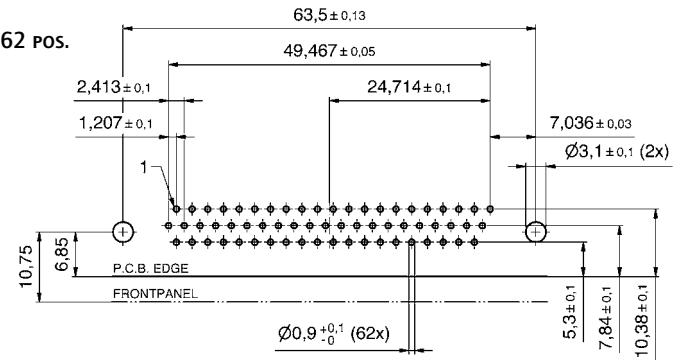
44 pos.



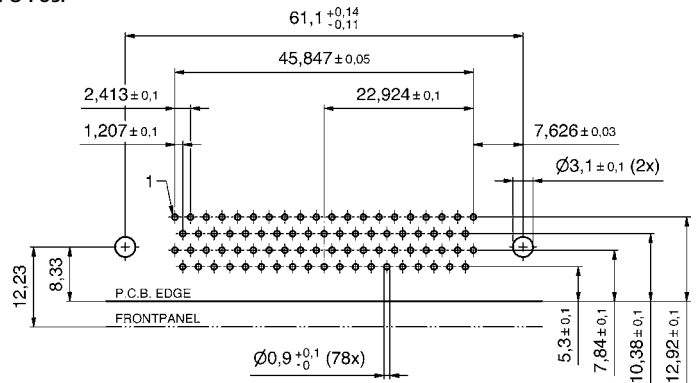
26 pos.



62 pos.



78 pos.

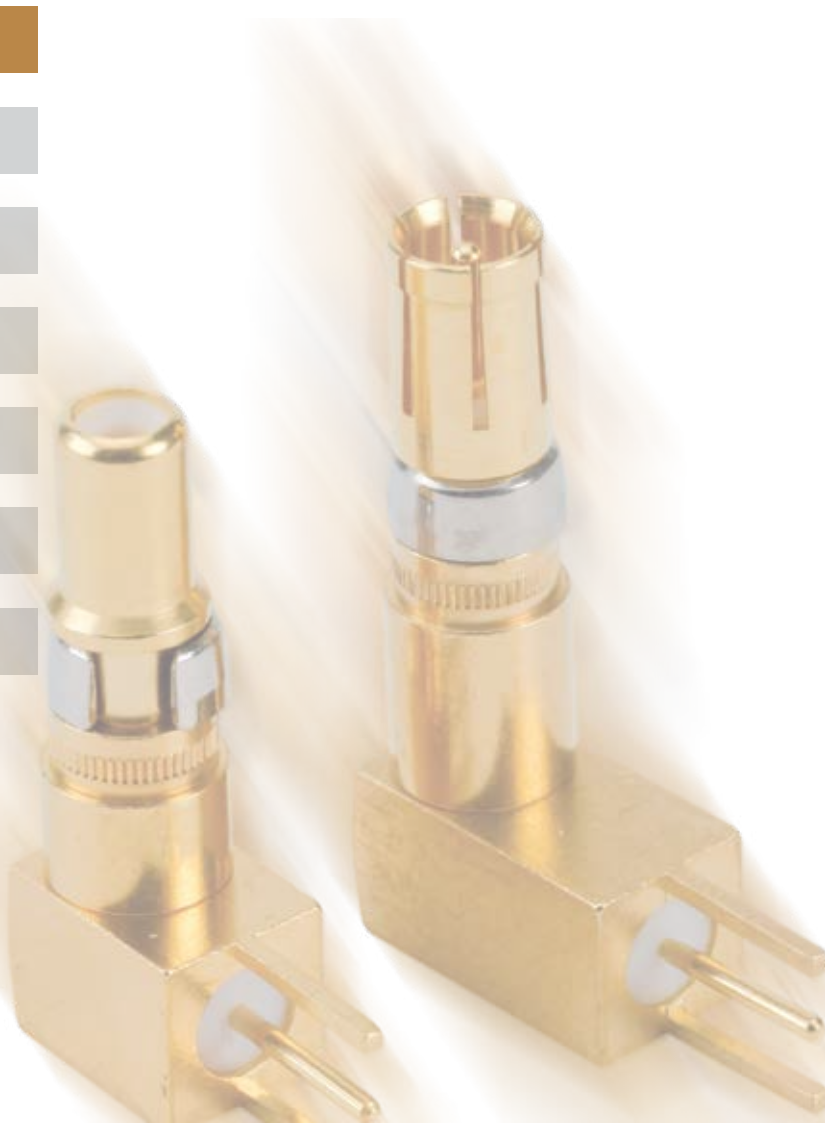


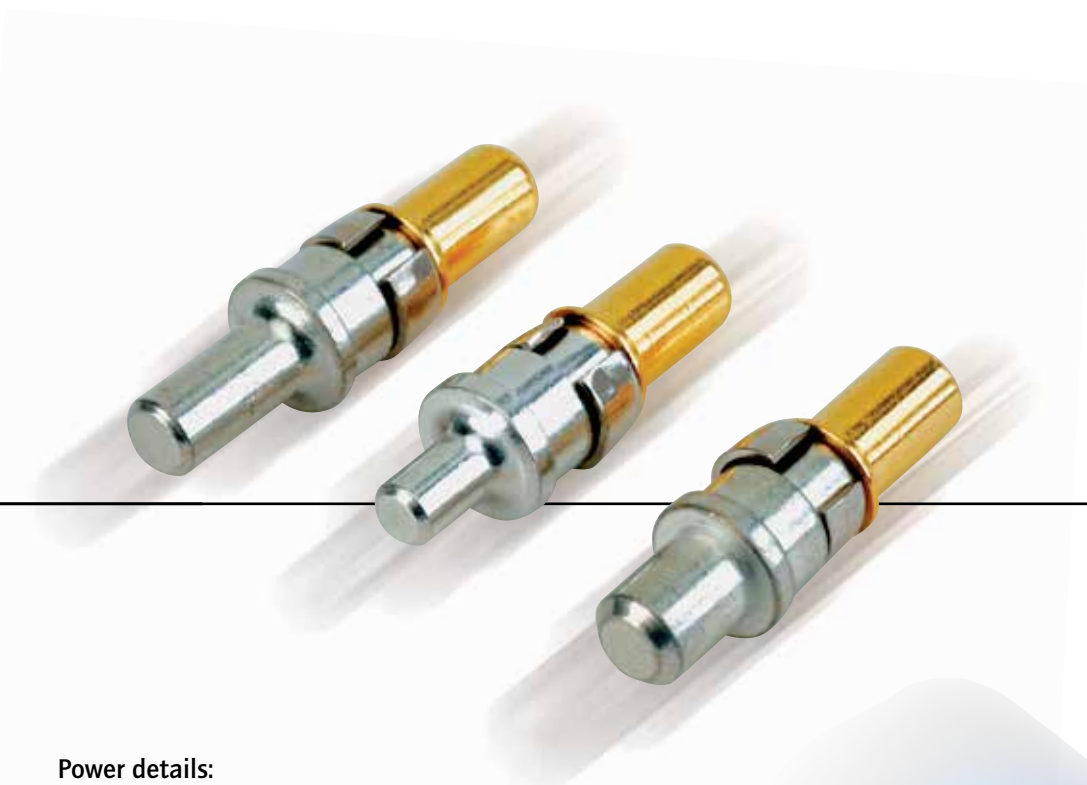
SECTION 9

IP67 COMBINATION D-SUB CONNECTORS

CONEC Combination D-SUB Connectors with IP67-rating are suitable for use in environments where increased protection against moisture and contamination is necessary. All IP67 protected Combination D-SUB Connectors are supplied already populated with signal, high voltage, high power or coaxial contacts. This is necessary to provide factory assurance that the connector is properly sealed thus ensuring its reliable protection in harsh environments.

The type of protection is defined by IEC 60529 which also specifies the suitability of electrical components for various ambient conditions. CONEC water resistant connectors ensure a continuously secure connection compliant with the IP67 rating. They are dustproof and protected against temporary submersion into water.





Power details:

- Standard design with metal frame and O-ring
- One piece "solid body" design available for increased mechanical stresses
- Inside seal in the connector plug - water cannot penetrate into the housing
- Available for front or rear panel mounting on the enclosure
- Connector without frame for cable mounting
- 4-40 UNC or M 3 threaded insert
- Plastic materials comply with UL 94 V0
- Machined precision contacts for heavy duty usage
- Various gold plating options available
- Basic connector dimensions - without frame - in compliance with DIN 41652 / MIL-C-24308
- Special accessories, including waterproof hoods and sealing caps



PART NUMBER CREATOR

6 0 0 7 W 2 S A M 6 2 B 3 O X

Product Line

- 6 = Shell: Brass tin plated with die-cast frame
- 4* = Shell: Brass tin plated with or without plastic frame
- 8* = Shell: Stainless steel with or without die-cast frame
- 9* = Shell: Stainless steel with plastic frame
- * on request

Variations

- Shellsize 1 = 5W1, 2W2C
- Shellsize 2 = 3W3, 7W2, 11W1, 3W3C
- Shellsize 3 = 5W5, 9W4, 13W3, 17W2, 21W1
- Shellsize 4 = 8W8, 13W6, 17W5, 21WA4, 25W3, 27W2
- Shellsize 5 = 24W7, 36W4, 43W2, 47W1
- Empty positions ADD „0“ for example 007W2

Contact type

- P = Plug connector
- S = Socket connector

Plating code/Quality class for signal contacts

- A = Quality class 3 = 50 mating cycles
- B* = Quality class 2 =200 mating cycles
- C = Quality class 1 =500 mating cycles
- X = without signal contact * on request

Termination applies to signal contacts only

- M = Solder cup
- R = Solder pin – Straight
- T = Solder pin – Angled, .189"/4.80 mm
- U = Solder pin – Angled, .276"/7.00 mm
- Z = Solder pin – Angled, .465"/11.80 mm
- X = 3W3, 5W5, 8W8, 2W2C, 3W3C

Termination for high power or coaxial contacts

Quality class 3 /Quality class 1

- 61 / 41 = Solder cup 10 A
- 62 / 42 = Solder cup 20 A
- 68 / 48 = Solder pin – Straight 20 A, D= .077"/1.95 mm
- 69 / 49 = Solder pin – Straight 20 A, D= .102"/2.60 mm
- 70 / 50 = Solder pin – Straight 20 A, D= .112"/2.85 mm
- 71 / 51 = Solder pin – Straight 30 A, D= .125"/3.18 mm
- 72 / 52 = Solder pin – Straight 40 A, D= .148"/3.75 mm
- 59 / 55 = Solder pin – Angled 15 A
- 73 / 56 = Solder pin – Angled 20 A
- 74 / 57 = Solder pin – Angled 30 A
- 75 / 58 = Solder pin – Angled 40 A
- 77 / 60 = Solder pin – Angled 40 A

Quality class 3 /Quality class 1

- 85 / 65 = Solder pin – Angled 30 A
- 81 / 66 = Solder pin – Angled 20 A
- 82 / 67 = Solder pin – Angled 30 A
- F9 / H4 = Cable connection straight 75 Ω
- G1 / H5 = Cable connection straight 75 Ω
- G2 / H6 = Cable connection straight 50 Ω
- G3 / H7 = Cable connection straight 50 Ω
- G4 / H8 = Cable connection straight 50 Ω
- G5 / H9 = Cable connection straight 50 Ω
- G6 / K1 = Cable connection straight 50 Ω
- G7 / 76 = 3 solder pins straight 50 Ω
- G8 / 86 = 3 solder pins straight 75 Ω

Quality class 3 /Quality class 1

- G9 / 78 = 3 solder pins angled 50 Ω
- H1 / 79 = 3 solder pins angled 50 Ω
- H2 / 88 = 3 solder pins angled 75 Ω
- H3 / 89 = 3 solder pins angled 75 Ω
- R1 = Screw/Crimp 10 A
- R2 = Screw/Crimp 20 A
- R3 = Screw/Crimp 30 A
- R4 = Screw/Crimp 40 A

Mounting style

- | | |
|-----------------------------------------------------------------------|-----------------------------------------------------------|
| A1 = Riveted through hole for hood assembly | S1 = Metal bracket, M3 threaded insert |
| B2 = M3 threaded insert | S2 = Metal bracket, 4-40 UNC threaded insert |
| B3 = 4-40 UNC threaded insert | S3 = Metal bracket, M3 threaded insert and PCB clip |
| B4 = M3 front spacer | S4 = Metal bracket, 4-40 UNC threaded insert and PCB clip |
| B5 = 4-40 UNC front spacer | R1 = Metal bracket, M3 threaded insert |
| E1 = M3 threaded rear spacer with PCB clip, PCB .063" / 1.60 mm | R2 = Metal bracket, 4-40 UNC threaded insert |
| E2 = 4-40 UNC threaded rear spacer with PCB clip, PCB .063" / 1.60 mm | R3 = Metal bracket, M3 threaded insert/PCB clip |
| | R4 = Metal bracket, 4-40 UNC threaded insert/PCB clip |

- OX = Standard

TECHNICAL DATA

Mechanical and electrical characteristics	Signal contacts	Coaxial contacts	High power contacts
Insulator	Polyester GF (UL 94V-0)	PTFE	
Shell	Brass tin plated		
Contact plating	Gold plated over nickel		
Contact material	CU alloy		
Retaining clip		CU alloy	CU alloy
Current rating	7.5 A (UL) / 5 A (CSA, VDE)		
Test voltage between 2 contacts shell and contact	1000 V, 50Hz 1 min.		
Resistance between mated contacts	≤ 2.7mΩ		
Insulation resistance	5GΩ	≤ 1GΩ	5GΩ
Volume resistivity	10 ¹⁶ Ωcm		
Dielectric with standing voltage	50KV/mm		
Impedance		50/75Ω	
Contact resistance inner- /outer conductor	≤ 2.7mΩ	≤ 2.7mΩ	≤ 1mΩ
VSWR-value at according MIL-C-39012			
1.2GHz		≤ 1.2	
1.5GHz		≤ 1.3	
2.0GHz		≤ 1.5	
Dielectric with standing voltage		750 V 50Hz	
Frequency range		0-2GHz	
Working voltage	250 V	250 V	
Temperature range	-25°C to +105°C		
Degree of protection	Requirements according to IEC 60529 – IP67		
Insertion force per signal contact	≤ 3.4N	≤ 7N	≤ 7N
Extraction force per signal contact	≤ 0.2N	≤ 7N	ca. 5N
Quality class	A = Quality class 3 = 50 mating cycles B = Quality class 2 = 200 mating cycles C = Quality class 1 = 500 mating cycles		

Solder parameter	Preheating		Solder terminal dipping parameters	
	max. Temperature	Duration	max. Solder bath Temperature	max. Terminal Immersion Time
Recommended wave-solder parameters	120°C	120s	240°C	5s

Technical specifications are subject to change without notice.

PANEL MOUNTING

Front panel mounting

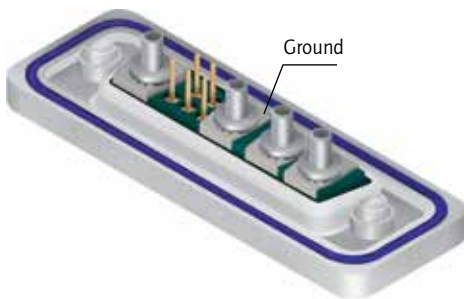


Rear panel mounting



Grounding for Coaxial contacts

To optimize a perfect ground connection from the coaxial outer conductor to the metal shell (Factory installed).



Hole plug

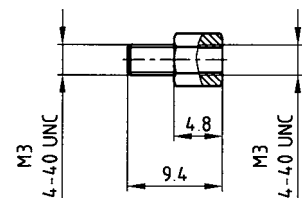
The hole plug can be used for both male and female connector. The assembly is implemented from the mating side. The hole plug is used to plug unwanted holes in the insulator. (Factory installed)



Threaded insert

Suitable hex bolts with either 4-40 UNC or M3 thread are supplied with the IP67 rated connectors.

Hex bolt material: Stainless steel



IP-CODE FIGURE DEFINITIONS

1. Code figure	Definition	Remark
0	Not protected	
1	Protected against access to hazardous parts by the back of the hand. Protected against fixed foreign objects $\varnothing \geq 1.969''/50$ mm.	
2	Protected against access to hazardous parts with a finger. Protected against fixed foreign objects $\varnothing \geq .492''/12.5$ mm.	
3	Protected against access to hazardous parts with a tool. Protected against fixed foreign objects $\varnothing \geq .098''/2.5$ mm.	
4	Protected against access to hazardous parts with a wire. Protected against fixed foreign objects $\varnothing \geq .039''/1$ mm.	
5	Protected against access to hazardous parts with a wire. Dust protected.	Ingress of dust is not completely blocked. But dust may not penetrate to the extent that satisfactory operation of the device or safety is impaired.
6	Protected against access to hazardous parts with a wire. Dustproof. No ingress of dust.	

2. Code figure	Definition	Remark
0	Not protected	
1	Protected against dropper.	
2	Protected against dropper when the shell is tipped as much as 15°.	
3	Protected against spray water	Up to 60° of either side of the vertical, such spray water shall have no harmful effects.
4	Protected against splash water	On the shell from all directions, no harmful effects shall be incurred.
5	Protected against jets of water.	
6	Protected against strong jets of water.	
7	Protected against the effects of temporary submersion in water.	Water may not ingress in a volume that would cause harmful effects when the shell is submerged in water for 30 min at a depth of 1 m.
8	Protected against the effects of continuous submersion in water.	Water may not ingress in a volume that would cause harmful effects when the shell is continuously submerged in water under conditions agreed between manufacturer and user. However, these conditions must be more stringent than those described under code figure 7.
9k	Protected against water from high-pressure or steam cleaning.	

Explanation to spray water protected (IP) systems and their environment.

This system, described in IEC 60529, was developed to represent standard values for respective protection:

- a) Contact with, and ingress of, fixed foreign objects
- b) The ingress of liquids to which the inside is to be exposed.

The first digit describes the level of protection for life, contacting objects and the intrusion of foreign bodies. The second digit describes the level of protection against the ingress of liquids. The larger the first and second digits are, the greater afforded protection is, e.g. IP55 must also meet the requirements of all lower protection levels, such as IP22, IP23, IP34 and IP54.

TECHNICAL INFORMATIONS

SKIN EFFECT

Alternating currents do not uniformly occupy the entire cross section of the conductor, rather inductance effect in the conductor deflects the current towards the surface of the conductor, whereby this deflection increases with the frequency. The resistive attenuation of a transmission line increases with the frequency as a result of this skin effect. The skin depth (equivalent thickness of the layer in which current flows) can be determined using

$$\delta = \frac{1}{\sqrt{f \pi \sigma \mu_0 \mu_r}}$$

f = frequency

σ = conductivity of the conductor material

σ_{Ag} = 62×10^6 S/m

σ_{Cu} = 58×10^6 S/m

μ_0 = $1,256 \cdot 10^{-6}$ Vs / Am

μ_r ... relative permeability constant for the employed material

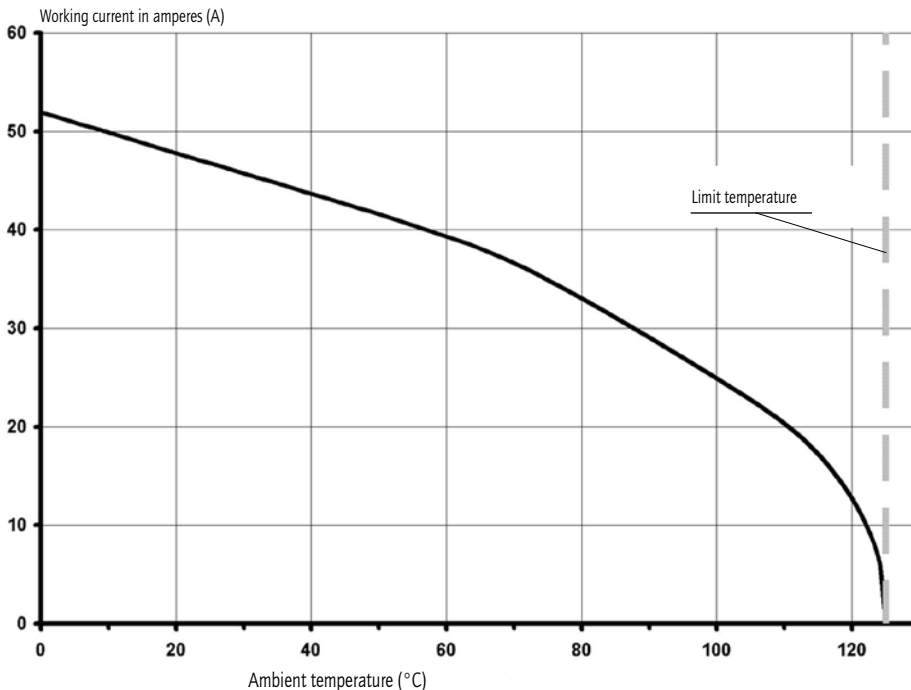
VSWR-VALUE

The ratio between the value of the largest and the smallest voltages on a loss-free line is known as the ripple or voltage standing wave ratio s (where $1 \leq s < \infty$). The reciprocal value of the VSWR is known as the inverse voltage standing wave ratio m (where $0 < m \leq 1$). (VSWR = Voltage standing wave ratio)

The value of s is linked with the → reflection coefficient r on s transmission line according to the equation

$$s = \frac{(1 + |r|)}{(1 - |r|)}$$

DERATING CURVE



All connectors in the Water Resistant Combination D-Subminiature series are fully loaded with contacts.

They are equipped with either signal, high voltage, high power or coaxial contacts according to requirements.

Our production standard requires that all connectors are fully loaded.

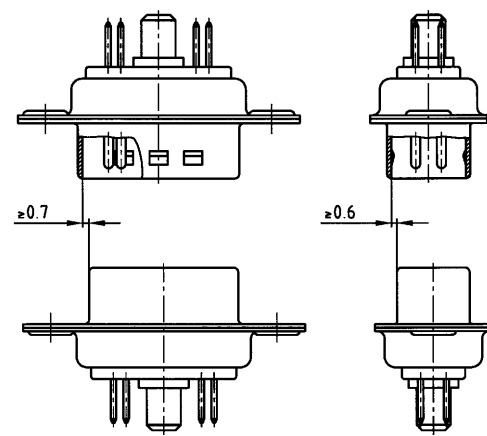
Connectors 3W3, 5W5 and 8W8 female: Socket contacts are fingerprobe safe according to UL1950 and CSA 22.2.950 specifications.

MATING CONDITIONS

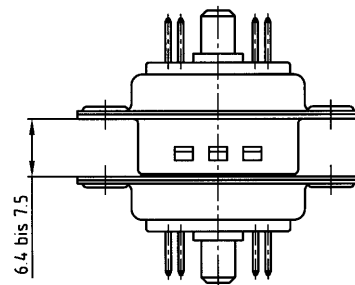
Float mount tolerance guide



Rigid mount tolerance guide



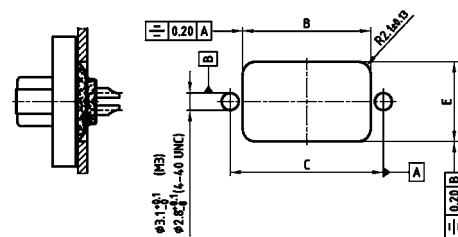
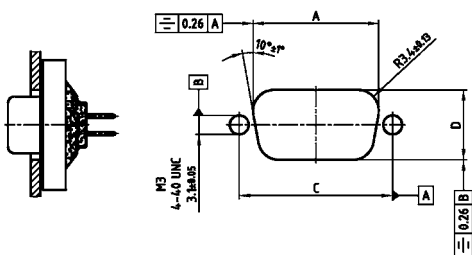
Rigid mount vertical to tolerance guide



PANEL CUT-OUT

Rear panel mounting

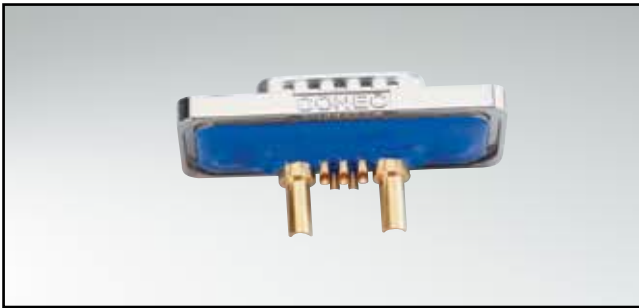
Front panel mounting



Shellsize	A ± 0.1	B ± 0.1	C ± 0.1	D ± 0.1	E ± 0.1
1	20.50	20.90	25.00	11.40	13.00
2	28.80	29.20	33.30	11.40	13.00
3	42.50	42.90	47.04	11.40	13.00
4	59.10	59.40	63.50	11.40	13.00
5	56.30	57.00	61.10	14.10	15.80

IP67 COMBINATION D-SUB

Solder cup – Precision machined contacts – For wire size AWG 20

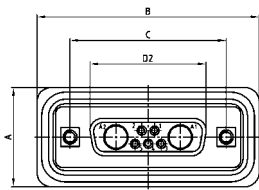


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

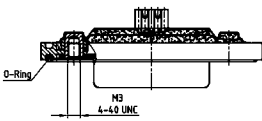
DESCRIPTION

- Signal contacts for wire size AWG 20
- Contacts: high power or coaxial contacts
- Mounting style: with 4-40 UNC or M3 threaded insert
- Quality class 3 (Also available in quality class 1)
- Shell: Brass tin plated (Stainless steel on request)
- Nickel plated die-cast frame (Black plastic frame on request)
- Stainless steel hex bolts are supplied loose

SOCKET CONNECTOR

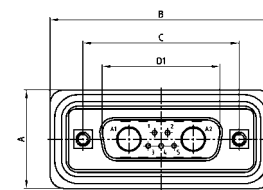


Shellsize	A +0.3	B +0.3	C	D2 +0.25
1	21.10	39.40	25.00 ^{+0.12/-0.13}	16.46
2	21.10	47.70	33.30 ^{+0.15/-0.10}	24.79
3	21.10	61.40	47.04 ^{+0.13}	38.50
4	21.10	77.90	63.50 ^{+0.13}	54.96
5	23.90	75.50	61.10 ^{+0.14/-0.11}	52.55

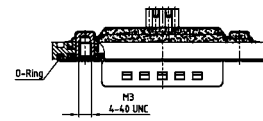


Shellsize 1-4

Shellsize 5

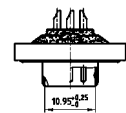
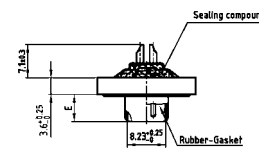
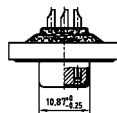
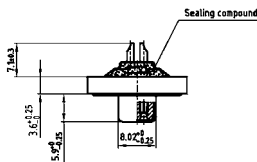


Shellsize	A +0.3	B +0.3	C	D1 +0.25	E -0.30
1	21.10	39.40	25.00 ^{+0.12/-0.13}	16.79	5.82
2	21.10	47.70	33.30 ^{+0.15/-0.10}	25.12	5.82
3	21.10	61.40	47.04 ^{+0.13}	38.84	5.69
4	21.10	77.90	63.50 ^{+0.13}	55.30	5.69
5	23.90	75.50	61.10 ^{+0.14/-0.11}	52.68	5.69



Shellsize 1-4

Shellsize 5



ORDER DATA

SOCKET CONNECTOR		High power contact	Part Number
Design	Mounting style 4-40 UNC		
5W1	Threaded insert	10 A	6005W1SAM 61 B30X
7W2	Threaded insert	10 A	6007W2SAM 61 B30X
11W1	Threaded insert	10 A	6011W1SAM 61 B30X
9W4	Threaded insert	10 A	6009W4SAM 61 B30X
13W3	Threaded insert	10 A	6013W3SAM 61 B30X
17W2	Threaded insert	10 A	6017W2SAM 61 B30X
21W1	Threaded insert	10 A	6021W1SAM 61 B30X
13W6	Threaded insert	10 A	6013W6SAM 61 B30X
17W5	Threaded insert	10 A	6017W5SAM 61 B30X
21WA4	Threaded insert	10 A	621WA4SAM 61 B30X
25W3	Threaded insert	10 A	6025W3SAM 61 B30X
27W2	Threaded insert	10 A	6027W2SAM 61 B30X
24W7	Threaded insert	10 A	6024W7SAM 61 B30X
36W4	Threaded insert	10 A	6036W4SAM 61 B30X
43W2	Threaded insert	10 A	6043W2SAM 61 B30X
47W1	Threaded insert	10 A	6047W1SAM 61 B30X

PLUG CONNECTOR		High power contact	Part Number
Design	Mounting style 4-40 UNC		
5W1	Threaded insert	10 A	6005W1PAM 61 B30X
7W2	Threaded insert	10 A	6007W2PAM 61 B30X
11W1	Threaded insert	10 A	6011W1PAM 61 B30X
9W4	Threaded insert	10 A	6009W4PAM 61 B30X
13W3	Threaded insert	10 A	6013W3PAM 61 B30X
17W2	Threaded insert	10 A	6017W2PAM 61 B30X
21W1	Threaded insert	10 A	6021W1PAM 61 B30X
13W6	Threaded insert	10 A	6013W6PAM 61 B30X
17W5	Threaded insert	10 A	6017W5PAM 61 B30X
21WA4	Threaded insert	10 A	621WA4PAM 61 B30X
25W3	Threaded insert	10 A	6025W3PAM 61 B30X
27W2	Threaded insert	10 A	6027W2PAM 61 B30X
24W7	Threaded insert	10 A	6024W7PAM 61 B30X
36W4	Threaded insert	10 A	6036W4PAM 61 B30X
43W2	Threaded insert	10 A	6043W2PAM 61 B30X
47W1	Threaded insert	10 A	6047W1PAM 61 B30X

For other contacts refer to page 6 | 32 to 6 | 37

Contact	Code
High power 10 A	= 61
High power 20 A	= 62

IP67 COMBINATION D-SUB

Solder pin – Straight – Precision machined contacts

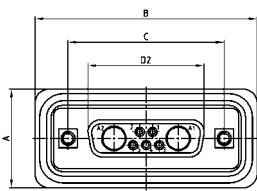


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

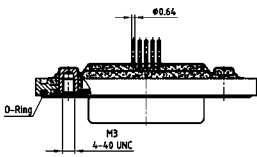
DESCRIPTION

- Contacts: high power or coaxial contacts
- Mounting style: with 4-40 UNC or M3 threaded insert
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (Stainless steel on request)
- Nickel plated die-cast frame (Black plastic frame on request)
- Stainless steel hex bolts are supplied loose

SOCKET CONNECTOR



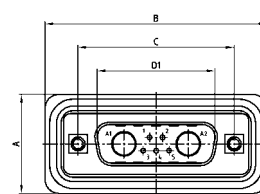
Shellsize	A +0.3	B +0.3	C	D2 ±0.25	D1 ±0.25
1	21.10	39.40	25.00 ^{+0.12/-0.13}	16.46	16.79
2	21.10	47.70	33.30 ^{+0.15/-0.10}	24.79	25.12
3	21.10	61.40	47.04 ^{+0.13/-0.11}	38.50	38.84
4	21.10	77.90	63.50 ^{+0.13/-0.14}	54.96	55.30
5	23.90	75.50	61.10 ^{+0.14/-0.11}	52.55	52.68



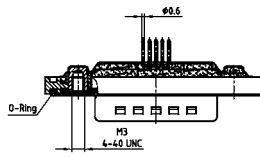
Shellsize 1-4

Shellsize 5

PLUG CONNECTOR

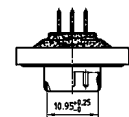
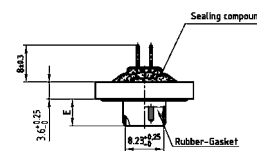
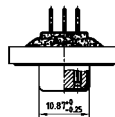
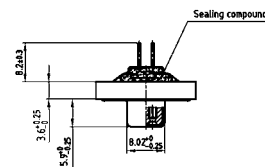


Shellsize	A +0.3	B +0.3	C	D1 ±0.25	D2 ±0.25
1	21.10	39.40	25.00 ^{+0.12/-0.13}	16.79	16.46
2	21.10	47.70	33.30 ^{+0.15/-0.10}	25.12	24.79
3	21.10	61.40	47.04 ^{+0.13/-0.11}	38.84	38.50
4	21.10	77.90	63.50 ^{+0.13/-0.14}	55.30	54.96
5	23.90	75.50	61.10 ^{+0.14/-0.11}	52.68	52.55



Shellsize 1-4

Shellsize 5



ORDER DATA

SOCKET CONNECTOR		High power contact	Bestellnummer
Design	Mounting style 4-40 UNC		
5W1	Threaded insert	20 A	6005W1SAR 68 B30X
7W2	Threaded insert	20 A	6007W2SAR 68 B30X
11W1	Threaded insert	20 A	6011W1SAR 68 B30X
9W4	Threaded insert	20 A	6009W4SAR 68 B30X
13W3	Threaded insert	20 A	6013W3SAR 68 B30X
17W2	Threaded insert	20 A	6017W2SAR 68 B30X
21W1	Threaded insert	20 A	6021W1SAR 68 B30X
13W6	Threaded insert	20 A	6013W6SAR 68 B30X
17W5	Threaded insert	20 A	6017W5SAR 68 B30X
21WA4	Threaded insert	20 A	621WA4SAR 68 B30X
25W3	Threaded insert	20 A	6025W3SAR 68 B30X
27W2	Threaded insert	20 A	6027W2SAR 68 B30X
24W7	Threaded insert	20 A	6024W7SAR 68 B30X
36W4	Threaded insert	20 A	6036W4SAR 68 B30X
43W2	Threaded insert	20 A	6043W2SAR 68 B30X
47W1	Threaded insert	20 A	6047W1SAR 68 B30X

PLUG CONNECTOR		High power contact	Part Number
Design	Mounting style 4-40 UNC		
5W1	Threaded insert	20 A	6005W1PAR 68 B30X
7W2	Threaded insert	20 A	6007W2PAR 68 B30X
11W1	Threaded insert	20 A	6011W1PAR 68 B30X
9W4	Threaded insert	20 A	6009W4PAR 68 B30X
13W3	Threaded insert	20 A	6013W3PAR 68 B30X
17W2	Threaded insert	20 A	6017W2PAR 68 B30X
21W1	Threaded insert	20 A	6021W1PAR 68 B30X
13W6	Threaded insert	20 A	6013W6PAR 68 B30X
17W5	Threaded insert	20 A	6017W5PAR 68 B30X
21WA4	Threaded insert	20 A	621WA4PAR 68 B30X
25W3	Threaded insert	20 A	6025W3PAR 68 B30X
27W2	Threaded insert	20 A	6027W2PAR 68 B30X
24W7	Threaded insert	20 A	6024W7PAR 68 B30X
36W4	Threaded insert	20 A	6036W4PAR 68 B30X
43W2	Threaded insert	20 A	6043W2PAR 68 B30X
47W1	Threaded insert	20 A	6047W1PAR 68 B30X

For other contacts refer to page 6|32 to 6|37

Contact	Code
High power 20 A; D=.080/1.95 mm =	68
High power 20 A; D=.102/2.60 mm =	69
High power 20 A; D=.110/2.85 mm =	70
High power 30 A; D=.130/3.18 mm =	71
High power 40 A; D=.150/3.75 mm =	72

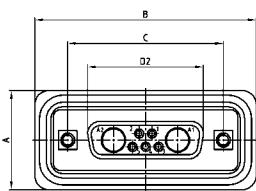
IP67 COMBINATION D-SUB

Solder pin – Straight – Precision machined contacts – Threaded rear spacer with PCB clip

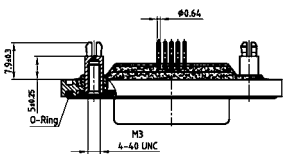


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

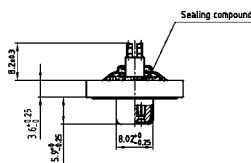
SOCKET CONNECTOR



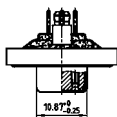
Shellsize	A +0.3	B +0.3	C	D2 +0.25
1	21.10	39.40	25.00 ^{+0.12/-0.13}	16.46
2	21.10	47.70	33.30 ^{+0.15/-0.10}	24.79
3	21.10	61.40	47.04 ^{+0.13}	38.50
4	21.10	77.90	63.50 ^{+0.13}	54.96
5	23.90	75.50	61.10 ^{+0.14/-0.11}	52.55



Shellsize 1-4



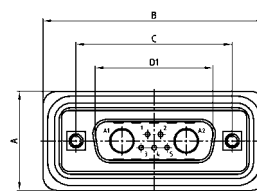
Shellsize 5



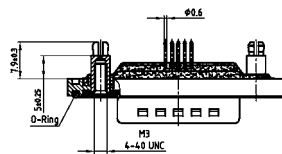
DESCRIPTION

- Contacts: high power or coaxial contacts
- Mounting style: with 4-40 UNC or M3 threaded rear spacer with PCB clip
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (Stainless steel on request)
- Nickel plated die-cast frame (Black plastic frame on request)
- Stainless steel hex bolts are supplied loose

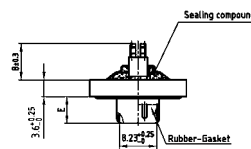
PLUG CONNECTOR



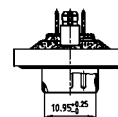
Shellsize	A +0.3	B +0.3	C	D1 +0.25	E -0.30
1	21.10	39.40	25.00 ^{+0.12/-0.13}	16.79	5.82
2	21.10	47.70	33.30 ^{+0.15/-0.10}	25.12	5.82
3	21.10	61.40	47.04 ^{+0.13}	38.84	5.69
4	21.10	77.90	63.50 ^{+0.13}	55.30	5.69
5	23.90	75.50	61.10 ^{+0.14/-0.11}	52.68	5.69



Shellsize 1-4



Shellsize 5



ORDER DATA

SOCKET CONNECTOR		High power contact	Part Number
5W1	Threaded rear spacer PCB clip	20 A	6005W1SAR 68 E20X
7W2	Threaded rear spacer PCB clip	20 A	6007W2SAR 68 E20X
11W1	Threaded rear spacer PCB clip	20 A	6011W1SAR 68 E20X
9W4	Threaded rear spacer PCB clip	20 A	6009W4SAR 68 E20X
13W3	Threaded rear spacer PCB clip	20 A	6013W3SAR 68 E20X
17W2	Threaded rear spacer PCB clip	20 A	6017W2SAR 68 E20X
21W1	Threaded rear spacer PCB clip	20 A	6021W1SAR 68 E20X
13W6	Threaded rear spacer PCB clip	20 A	6013W6SAR 68 E20X
17W5	Threaded rear spacer PCB clip	20 A	6017W5SAR 68 E20X
21WA4	Threaded rear spacer PCB clip	20 A	621WA4SAR 68 E20X
25W3	Threaded rear spacer PCB clip	20 A	6025W3SAR 68 E20X
27W2	Threaded rear spacer PCB clip	20 A	6027W2SAR 68 E20X
24W7	Threaded rear spacer PCB clip	20 A	6024W7SAR 68 E20X
36W4	Threaded rear spacer PCB clip	20 A	6036W4SAR 68 E20X
43W2	Threaded rear spacer PCB clip	20 A	6043W2SAR 68 E20X
47W1	Threaded rear spacer PCB clip	20 A	6047W1SAR 68 E20X

PLUG CONNECTOR		High power contact	Part Number
5W1	Threaded rear spacer PCB clip	20 A	6005W1PAR 68 E20X
7W2	Threaded rear spacer PCB clip	20 A	6007W2PAR 68 E20X
11W1	Threaded rear spacer PCB clip	20 A	6011W1PAR 68 E20X
9W4	Threaded rear spacer PCB clip	20 A	6009W4PAR 68 E20X
13W3	Threaded rear spacer PCB clip	20 A	6013W3PAR 68 E20X
17W2	Threaded rear spacer PCB clip	20 A	6017W2PAR 68 E20X
21W1	Threaded rear spacer PCB clip	20 A	6021W1PAR 68 E20X
13W6	Threaded rear spacer PCB clip	20 A	6013W6PAR 68 E20X
17W5	Threaded rear spacer PCB clip	20 A	6017W5PAR 68 E20X
21WA4	Threaded rear spacer PCB clip	20 A	621WA4PAR 68 E20X
25W3	Threaded rear spacer PCB clip	20 A	6025W3PAR 68 E20X
27W2	Threaded rear spacer PCB clip	20 A	6027W2PAR 68 E20X
24W7	Threaded rear spacer PCB clip	20 A	6024W7PAR 68 E20X
36W4	Threaded rear spacer PCB clip	20 A	6036W4PAR 68 E20X
43W2	Threaded rear spacer PCB clip	20 A	6043W2PAR 68 E20X
47W1	Threaded rear spacer PCB clip	20 A	6047W1PAR 68 E20X

PCB clip .122"/3.1 ± .004"/0.10 mm hole diameter and .063"/1.6 mm circuit board thickness.

For other contacts prefer to page 6|32 to 6|37

Contact	Code
High power 20 A; D=.080/1.95 mm	68
High power 20 A; D=.102/2.60 mm	69
High power 20 A; D=.110/2.85 mm	70
High power 30 A; D=.130/3.18 mm	71
High power 40 A; D=.150/3.75 mm	72

IP67 COMBINATION D-SUB

Solder pin – Angled – .189" / 4.8 mm – Precision machined contacts – Metal bracket

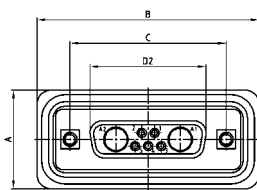


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

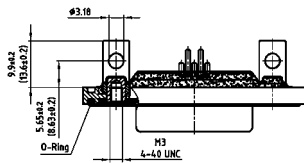
DESCRIPTION

- Contacts: high power or coaxial contacts
- Mounting style: metal bracket with 4-40 UNC or M3 threaded insert
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (Stainless steel on request)
- Nickel plated die-cast frame (Black plastic frame on request)
- Stainless steel hex bolts are supplied loose

SOCKET CONNECTOR

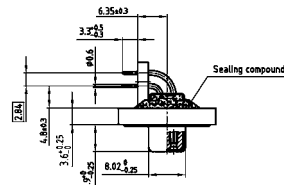


Shellsize	A +0.3	B +0.3	C	D2 +0.25
1	21.10	39.40	25.00 ^{+0.12} _{-0.13}	16.46
2	21.10	47.70	33.30 ^{+0.15} _{-0.10}	24.79
3	21.10	61.40	47.04 ^{+0.13}	38.50
4	21.10	77.90	63.50 ^{+0.13}	54.96
5	23.90	75.50	61.10 ^{+0.14} _{-0.11}	52.55

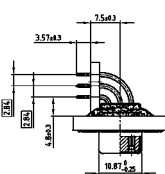


Dim. in () = Shellsize 5

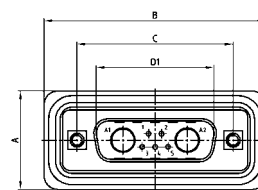
Shellsize 1-4



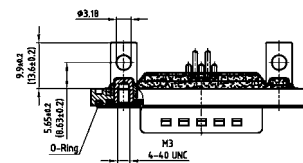
Shellsize 5



PLUG CONNECTOR

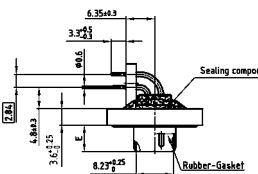


Shellsize	A +0.3	B +0.3	C	D1 +0.25	E -0.30
1	21.10	39.40	25.00 ^{+0.12} _{-0.13}	16.79	5.82
2	21.10	47.70	33.30 ^{+0.15} _{-0.10}	25.12	5.82
3	21.10	61.40	47.04 ^{+0.13}	38.84	5.69
4	21.10	77.90	63.50 ^{+0.13}	55.30	5.69
5	23.90	75.50	61.10 ^{+0.14} _{-0.11}	52.68	5.69

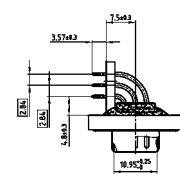


Dim. in () = Shellsize 5

Shellsize 1-4



Shellsize 5



ORDER DATA

SOCKET CONNECTOR		High power contact	Part Number
Design	Mounting style 4-40 UNC		
5W1	Threaded insert	15 A	6005W1SAT 59 S20X
7W2	Threaded insert	15 A	6007W2SAT 59 S20X
11W1	Threaded insert	15 A	6011W1SAT 59 S20X
9W4	Threaded insert	15 A	6009W4SAT 59 S20X
13W3	Threaded insert	15 A	6013W3SAT 59 S20X
17W2	Threaded insert	15 A	6017W2SAT 59 S20X
21W1	Threaded insert	15 A	6021W1SAT 59 S20X
13W6	Threaded insert	15 A	6013W6SAT 59 S20X
17W5	Threaded insert	15 A	6017W5SAT 59 S20X
21WA4	Threaded insert	15 A	621WA4SAT 59 S20X
25W3	Threaded insert	15 A	6025W3SAT 59 S20X
27W2	Threaded insert	15 A	6027W2SAT 59 S20X
24W7	Threaded insert	20 A	6024W7SAT 81 S20X
36W4	Threaded insert	20 A	6036W4SAT 81 S20X
43W2	Threaded insert	20 A	6043W2SAT 81 S20X
47W1	Threaded insert	20 A	6047W1SAT 81 S20X

PLUG CONNECTOR		High power contact	Part Number
Design	Mounting style 4-40 UNC		
5W1	Threaded insert	15 A	6005W1PAT 59 S20X
7W2	Threaded insert	15 A	6007W2PAT 59 S20X
11W1	Threaded insert	15 A	6011W1PAT 59 S20X
9W4	Threaded insert	15 A	6009W4PAT 59 S20X
13W3	Threaded insert	15 A	6013W3PAT 59 S20X
17W2	Threaded insert	15 A	6017W2PAT 59 S20X
21W1	Threaded insert	15 A	6021W1PAT 59 S20X
13W6	Threaded insert	15 A	6013W6PAT 59 S20X
17W5	Threaded insert	15 A	6017W5PAT 59 S20X
21WA4	Threaded insert	15 A	621WA4PAT 59 S20X
25W3	Threaded insert	15 A	6025W3PAT 59 S20X
27W2	Threaded insert	15 A	6027W2PAT 59 S20X
24W7	Threaded insert	20 A	6024W7PAT 81 S20X
36W4	Threaded insert	20 A	6036W4PAT 81 S20X
43W2	Threaded insert	20 A	6043W2PAT 81 S20X
47W1	Threaded insert	20 A	6047W1PAT 81 S20X

For other contacts refer to page 6 | 32 to 6 | 37

Contact for shellsize 1-4	Code	Contact for shellsize 5	Code
High power 15 A; E=.075/1.90 mm	= 59	High power 20 A; E=.110/2.85 mm	= 81
High power 20 A; E=.110/2.85 mm	= 73	High power 30 A; E=.150/3.75 mm	= 85
High power 30 A; E=.126/3.20 mm	= 74	High power 30 A; E=.126/3.20 mm	= 82
High power 40 A; E=.150/3.75 mm	= 75	High power 40 A; E=.150/3.75 mm	= 77

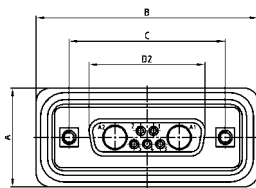
IP67 COMBINATION D-SUB

Solder pin – Angled – .189" / 4.8 mm – Precision machined contacts –
Metal bracket with PCB clip

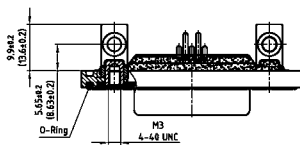


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

SOCKET CONNECTOR

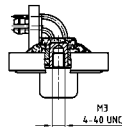


Shellsize	A +0.3	B +0.3	C	D2 +0.25
1	21.10	39.40	25.00 ^{+0.12/-0.13}	16.46
2	21.10	47.70	33.30 ^{+0.15/-0.10}	24.79
3	21.10	61.40	47.04 ^{+0.13}	38.50
4	21.10	77.90	63.50 ^{+0.13}	54.96
5	23.90	75.50	61.10 ^{+0.14/-0.11}	52.55

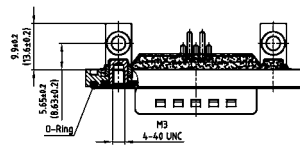


Dim. in () = Shellsize 5

Shellsize 1-4

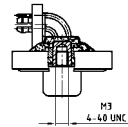


Shellsize 5

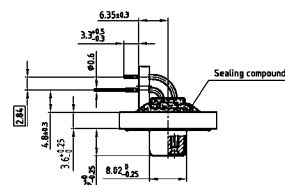


Dim. in () = Shellsize 5

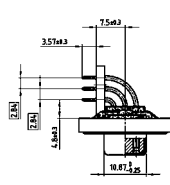
Shellsize 1-4



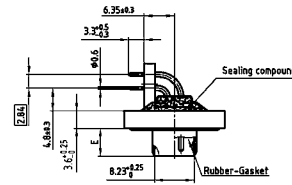
Shellsize 5



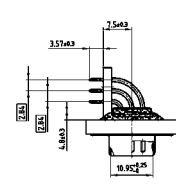
View without clip



View without clip



View without clip



View without clip

ORDER DATA

SOCKET CONNECTOR		High power contact	Part Number
5W1	PCB clip/Thread	15 A	6005W1SAT 59 S40X
7W2	PCB clip/Thread	15 A	6007W2SAT 59 S40X
11W1	PCB clip/Thread	15 A	6011W1SAT 59 S40X
9W4	PCB clip/Thread	15 A	6009W4SAT 59 S40X
13W3	PCB clip/Thread	15 A	6013W3SAT 59 S40X
17W2	PCB clip/Thread	15 A	6017W2SAT 59 S40X
21W1	PCB clip/Thread	15 A	6021W1SAT 59 S40X
13W6	PCB clip/Thread	15 A	6013W6SAT 59 S40X
17W5	PCB clip/Thread	15 A	6017W5SAT 59 S40X
21W4A	PCB clip/Thread	15 A	621WA4SAT 59 S40X
25W3	PCB clip/Thread	15 A	6025W3SAT 59 S40X
27W2	PCB clip/Thread	15 A	6027W2SAT 59 S40X
24W7	PCB clip/Thread	20 A	6024W7SAT 81 S40X
36W4	PCB clip/Thread	20 A	6036W4SAT 81 S40X
43W2	PCB clip/Thread	20 A	6043W2SAT 81 S40X
47W1	PCB clip/Thread	20 A	6047W1SAT 81 S40X

PLUG CONNECTOR		High power contact	Part Number
5W1	PCB clip/Thread	15 A	6005W1PAT 59 S40X
7W2	PCB clip/Thread	15 A	6007W2PAT 59 S40X
11W1	PCB clip/Thread	15 A	6011W1PAT 59 S40X
9W4	PCB clip/Thread	15 A	6009W4PAT 59 S40X
13W3	PCB clip/Thread	15 A	6013W3PAT 59 S40X
17W2	PCB clip/Thread	15 A	6017W2PAT 59 S40X
21W1	PCB clip/Thread	15 A	6021W1PAT 59 S40X
13W6	PCB clip/Thread	15 A	6013W6PAT 59 S40X
17W5	PCB clip/Thread	15 A	6017W5PAT 59 S40X
21W4A	PCB clip/Thread	15 A	621WA4PAT 59 S40X
25W3	PCB clip/Thread	15 A	6025W3PAT 59 S40X
27W2	PCB clip/Thread	15 A	6027W2PAT 59 S40X
24W7	PCB clip/Thread	20 A	6024W7PAT 81 S40X
36W4	PCB clip/Thread	20 A	6036W4PAT 81 S40X
43W2	PCB clip/Thread	20 A	6043W2PAT 81 S40X
47W1	PCB clip/Thread	20 A	6047W1PAT 81 S40X

PCB clip .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness.

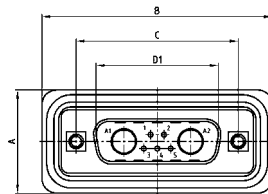
For other contacts refer to page 6|32 to 6|37

Contact for shellsize 1-4	Code	Contact for shellsize 5	Code
High power 15 A; E=.075/1.90 mm =	59	High power 20 A; E=.110/2.85 mm =	81
High power 20 A; E=.110/2.85 mm =	73	High power 30 A; E=.150/3.75 mm =	85
High power 30 A; E=.126/3.20 mm =	74	High power 30 A; E=.126/3.20 mm =	82
High power 40 A; E=.150/3.75 mm =	75	High power 40 A; E=.150/3.75 mm =	77

DESCRIPTION

- Contacts: high power or coaxial contacts
- Mounting style:
metal bracket, threaded insert and 4-40 UNC or M3 PCB clip
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (Stainless steel on request)
- Nickel plated die-cast frame
(Black plastic frame on request)
- Stainless steel hex bolts are supplied loose

PLUG CONNECTOR



Shellsize	A +0.3	B +0.3	C	D1 +0.25	E -0.30
1	21.10	39.40	25.00 ^{+0.12/-0.13}	16.79	5.82
2	21.10	47.70	33.30 ^{+0.15/-0.10}	25.12	5.82
3	21.10	61.40	47.04 ^{+0.13}	38.84	5.69
4	21.10	77.90	63.50 ^{+0.13}	55.30	5.69
5	23.90	75.50	61.10 ^{+0.14/-0.11}	52.68	5.69

IP67 COMBINATION D-SUB

Solder pin – Angled – .276"/7.0 mm – Precision machined contacts – Metal bracket

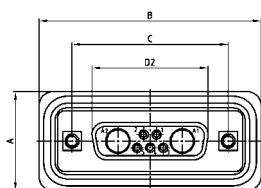


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

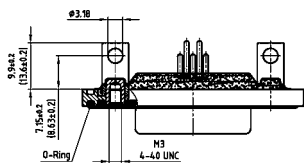
DESCRIPTION

- Contacts: high power or coaxial contacts
- Mounting style:
Metal bracket with 4-40 UNC threaded insert (M3 on request)
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (Stainless steel on request)
- Nickel plated die-cast frame (Black plastic frame on request)
- Stainless steel hex bolts are supplied loose

SOCKET CONNECTOR

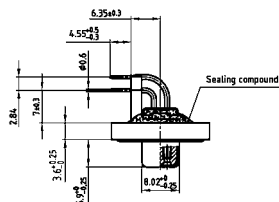


Shellsize	A +0.3	B +0.3	C	D2 +0.25
1	21.10	39.40	25.00 ^{+0.12/-0.13}	16.46
2	21.10	47.70	33.30 ^{+0.15/-0.10}	24.79
3	21.10	61.40	47.04 ^{+0.13}	38.50
4	21.10	77.90	63.50 ^{+0.13}	54.96
5	23.90	75.50	61.10 ^{+0.14/-0.11}	52.55

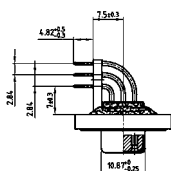


Dim. in () = Shellsize 5

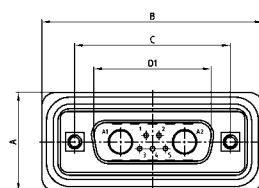
Shellsize 1-4



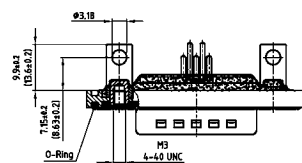
Shellsize 5



PLUG CONNECTOR

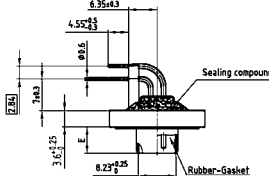


Shellsize	A +0.3	B +0.3	C	D1 +0.25	E -0.30
1	21.10	39.40	25.00 ^{+0.12/-0.13}	16.79	5.82
2	21.10	47.70	33.30 ^{+0.15/-0.10}	25.12	5.82
3	21.10	61.40	47.04 ^{+0.13}	38.84	5.69
4	21.10	77.90	63.50 ^{+0.13}	55.30	5.69
5	23.90	75.50	61.10 ^{+0.14/-0.11}	52.68	5.69

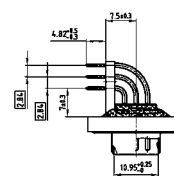


Dim. in () = Shellsize 5

Shellsize 1-4



Shellsize 5



ORDER DATA

SOCKET CONNECTOR		High power contact		Part Number
Design	Mounting style 4-40 UNC	15 A	20 A	
5W1	PCB clip/Threaded insert	15 A	20 A	6005W1SAU 59 R20X
7W2	PCB clip/Threaded insert	15 A	20 A	6007W2SAU 59 R20X
11W1	PCB clip/Threaded insert	15 A	20 A	6011W1SAU 59 R20X
9W4	PCB clip/Threaded insert	15 A	20 A	6009W4SAU 59 R20X
13W3	PCB clip/Threaded insert	15 A	20 A	6013W3SAU 59 R20X
17W2	PCB clip/Threaded insert	15 A	20 A	6017W2SAU 59 R20X
21W1	PCB clip/Threaded insert	15 A	20 A	6021W1SAU 59 R20X
13W6	PCB clip/Threaded insert	15 A	20 A	6013W6SAU 59 R20X
17W5	PCB clip/Threaded insert	15 A	20 A	6017W5SAU 59 R20X
21WA4	PCB clip/Threaded insert	15 A	20 A	621WA4SAU 59 R20X
25W3	PCB clip/Threaded insert	15 A	20 A	6025W3SAU 59 R20X
27W2	PCB clip/Threaded insert	15 A	20 A	6027W2SAU 59 R20X
24W7	PCB clip/Threaded insert	20 A	20 A	6024W7SAU 81 R20X
36W4	PCB clip/Threaded insert	20 A	20 A	6036W4SAU 81 R20X
43W2	PCB clip/Threaded insert	20 A	20 A	6043W2SAU 81 R20X
47W1	PCB clip/Threaded insert	20 A	20 A	6047W1SAU 81 R20X

PLUG CONNECTOR		High power contact		Part Number
Design	Mounting style 4-40 UNC	15 A	20 A	
5W1	PCB clip/Threaded insert	15 A	20 A	6005W1PAU 59 R20X
7W2	PCB clip/Threaded insert	15 A	20 A	6007W2PAU 59 R20X
11W1	PCB clip/Threaded insert	15 A	20 A	6011W1PAU 59 R20X
9W4	PCB clip/Threaded insert	15 A	20 A	6009W4PAU 59 R20X
13W3	PCB clip/Threaded insert	15 A	20 A	6013W3PAU 59 R20X
17W2	PCB clip/Threaded insert	15 A	20 A	6017W2PAU 59 R20X
21W1	PCB clip/Threaded insert	15 A	20 A	6021W1PAU 59 R20X
13W6	PCB clip/Threaded insert	15 A	20 A	6013W6PAU 59 R20X
17W5	PCB clip/Threaded insert	15 A	20 A	6017W5PAU 59 R20X
21WA4	PCB clip/Threaded insert	15 A	20 A	621WA4PAU 59 R20X
25W3	PCB clip/Threaded insert	15 A	20 A	6025W3PAU 59 R20X
27W2	PCB clip/Threaded insert	15 A	20 A	6027W2PAU 59 R20X
24W7	PCB clip/Threaded insert	20 A	20 A	6024W7PAU 81 R20X
36W4	PCB clip/Threaded insert	20 A	20 A	6036W4PAU 81 R20X
43W2	PCB clip/Threaded insert	20 A	20 A	6043W2PAU 81 R20X
47W1	PCB clip/Threaded insert	20 A	20 A	6047W1PAU 81 R20X

For other contacts prefer to page 6 | 32 to 6 | 37

Contact for shellsize 1-4	Code	Contact for shellsize 5	Code
High power 15 A; E=.075/1.90 mm	= 59	High power 20 A; E=.110/2.85 mm	= 81
High power 20 A; E=.110/2.85 mm	= 73	High power 30 A; E=.150/3.75 mm	= 85
High power 30 A; E=.126/3.20 mm	= 74	High power 30 A; E=.126/3.20 mm	= 82
High power 40 A; E=.150/3.75 mm	= 75	High power 40 A; E=.150/3.75 mm	= 77

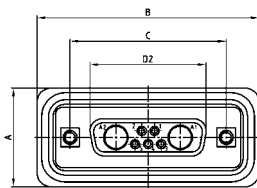
IP67 COMBINATION D-SUB

Solder pin – Angled – .276"/7.0 mm – Precision machined contacts –
Metal bracket with PCB clip

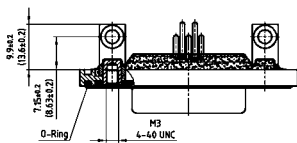


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

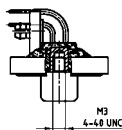
SOCKET CONNECTOR



Shellsize	A +0.3	B +0.3	C	D2 ±0.25
1	21.10	39.40	25.00 ^{+0.12/-0.13}	16.46
2	21.10	47.70	33.30 ^{+0.15/-0.10}	24.79
3	21.10	61.40	47.04 ^{+0.13}	38.50
4	21.10	77.90	63.50 ^{+0.13}	54.96
5	23.90	75.50	61.10 ^{+0.14/-0.11}	52.55

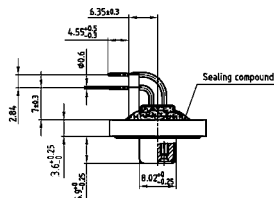


Dim. in () = Shellsize 5



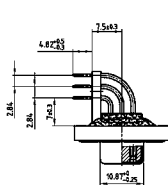
Shellsize 5

Shellsize 1-4



View without clip

Shellsize 5

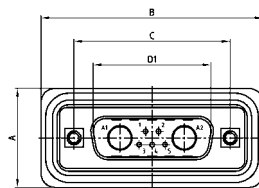


View without clip

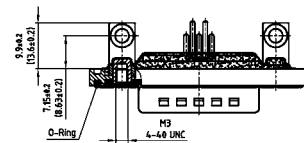
DESCRIPTION

- Contacts: high power or coaxial contacts
- Mounting style: metal bracket, threaded insert and 4-40 UNC or M3 PCB clip
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (Stainless steel on request)
- Nickel plated die-cast frame (Black plastic frame on request)
- Stainless steel hex bolts are supplied loose

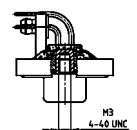
PLUG CONNECTOR



Shellsize	A +0.3	B +0.3	C	D1 ±0.25	E ±0.30
1	21.10	39.40	25.00 ^{+0.12/-0.13}	16.79	5.82
2	21.10	47.70	33.30 ^{+0.15/-0.10}	25.12	5.82
3	21.10	61.40	47.04 ^{+0.13}	38.84	5.69
4	21.10	77.90	63.50 ^{+0.13}	55.30	5.69
5	23.90	75.50	61.10 ^{+0.14/-0.11}	52.68	5.69

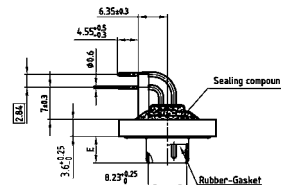


Dim. in () = Shellsize 5



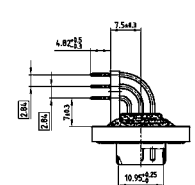
Shellsize 5

Shellsize 1-4



View without clip

Shellsize 5



View without clip

ORDER DATA

SOCKET CONNECTOR		High power contact	Part Number
Design	Mounting style 4-40 UNC		
5W1	PCB clip/Thread	15 A	6005W1SAU 59 R40X
7W2	PCB clip/Thread	15 A	6007W2SAU 59 R40X
11W1	PCB clip/Thread	15 A	6011W1SAU 59 R40X
9W4	PCB clip/Thread	15 A	6009W4SAU 59 R40X
13W3	PCB clip/Thread	15 A	6013W3SAU 59 R40X
17W2	PCB clip/Thread	15 A	6017W2SAU 59 R40X
21W1	PCB clip/Thread	15 A	6021W1SAU 59 R40X
13W6	PCB clip/Thread	15 A	6013W6SAU 59 R40X
17W5	PCB clip/Thread	15 A	6017W5SAU 59 R40X
21WA4	PCB clip/Thread	15 A	621WA4SAU 59 R40X
25W3	PCB clip/Thread	15 A	6025W3SAU 59 R40X
27W2	PCB clip/Thread	15 A	6027W2SAU 59 R40X
24W7	PCB clip/Thread	20 A	6024W7SAU 81 R40X
36W4	PCB clip/Thread	20 A	6036W4SAU 81 R40X
43W2	PCB clip/Thread	20 A	6043W2SAU 81 R40X
47W1	PCB clip/Thread	20 A	6047W1SAU 81 R40X

PLUG CONNECTOR		High power contact	Part Number
Design	Mounting style 4-40 UNC		
5W1	PCB clip/Thread	15 A	6005W1PAU 59 R40X
7W2	PCB clip/Thread	15 A	6007W2PAU 59 R40X
11W1	PCB clip/Thread	15 A	6011W1PAU 59 R40X
9W4	PCB clip/Thread	15 A	6009W4PAU 59 R40X
13W3	PCB clip/Thread	15 A	6013W3PAU 59 R40X
17W2	PCB clip/Thread	15 A	6017W2PAU 59 R40X
21W1	PCB clip/Thread	15 A	6021W1PAU 59 R40X
13W6	PCB clip/Thread	15 A	6013W6PAU 59 R40X
17W5	PCB clip/Thread	15 A	6017W5PAU 59 R40X
21WA4	PCB clip/Thread	15 A	621WA4PAU 59 R40X
25W3	PCB clip/Thread	15 A	6025W3PAU 59 R40X
27W2	PCB clip/Thread	15 A	6027W2PAU 59 R40X
24W7	PCB clip/Thread	20 A	6024W7PAU 81 R40X
36W4	PCB clip/Thread	20 A	6036W4PAU 81 R40X
43W2	PCB clip/Thread	20 A	6043W2PAU 81 R40X
47W1	PCB clip/Thread	20 A	6047W1PAU 81 R40X

PCB clip .122"/3.1 ± .004"/0.10 mm hole diameter and .063"/1.6 mm circuit board thickness.

For other contacts refer to page 6|32 to 6|37

Contact for shellsize 1-4	Code	Contact for shellsize 5	Code
High power 15 A; E=.075/1.90 mm	= 59	High power 20 A; E=.110/2.85 mm	= 81
High power 20 A; E=.110/2.85 mm	= 73	High power 30 A; E=.150/3.75 mm	= 85
High power 30 A; E=.126/3.20 mm	= 74	High power 30 A; E=.126/3.20 mm	= 82
High power 40 A; E=.150/3.75 mm	= 75	High power 40 A; E=.150/3.75 mm	= 77

IP67 COMBINATION D-SUB

Solder pin – Angled – .465" / 11.8 mm – Precision machined contacts – Metal bracket

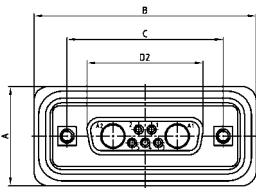


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

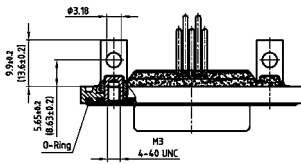
DESCRIPTION

- Contacts: high power or coaxial contacts
- Mounting style: metal bracket with 4-40 UNC or M3 threaded insert
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (Stainless steel on request)
- Nickel plated die-cast frame (Black plastic frame on request)
- Shellsize 5 on request
- Stainless steel hex bolts are supplied loose

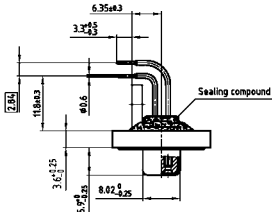
SOCKET CONNECTOR



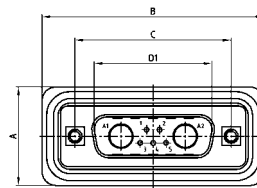
Shellsize	A +0.3	B +0.3	C	D2 +0.25
1	21.10	39.40	25.00 ^{+0.12/-0.13}	16.46
2	21.10	47.70	33.30 ^{+0.15/-0.10}	24.79
3	21.10	61.40	47.04 ^{+0.13}	38.50
4	21.10	77.90	63.50 ^{+0.13}	54.96



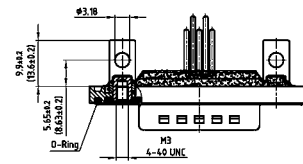
Shellsize 1-4



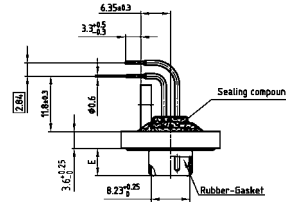
PLUG CONNECTOR



Shellsize	A +0.3	B +0.3	C	D1 +0.25	E -0.30
1	21.10	39.40	25.00 ^{+0.12/-0.13}	16.79	5.82
2	21.10	47.70	33.30 ^{+0.15/-0.10}	25.12	5.82
3	21.10	61.40	47.04 ^{+0.13}	38.84	5.69
4	21.10	77.90	63.50 ^{+0.13}	55.30	5.69



Shellsize 1-4



ORDER DATA

SOCKET CONNECTOR		High power contact	Part Number
Design	Mounting style 4-40 UNC		
5W1	Threaded insert	15 A	6005W1SAZ 59 S20X
7W2	Threaded insert	15 A	6007W2SAZ 59 S20X
11W1	Threaded insert	15 A	6011W1SAZ 59 S20X
9W4	Threaded insert	15 A	6009W4SAZ 59 S20X
13W3	Threaded insert	15 A	6013W3SAZ 59 S20X
17W2	Threaded insert	15 A	6017W2SAZ 59 S20X
21W1	Threaded insert	15 A	6021W1SAZ 59 S20X
13W6	Threaded insert	15 A	6013W6SAZ 59 S20X
17W5	Threaded insert	15 A	6017W5SAZ 59 S20X
21WA4	Threaded insert	15 A	621WA4SAZ 59 S20X
25W3	Threaded insert	15 A	6025W3SAZ 59 S20X
27W2	Threaded insert	15 A	6027W2SAZ 59 S20X

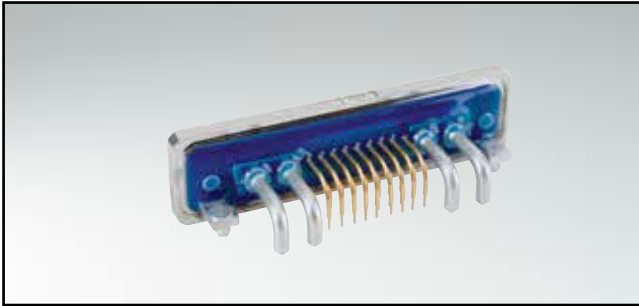
PLUG CONNECTOR		High power contact	Part Number
Design	Mounting style 4-40 UNC		
5W1	Threaded insert	15 A	6005W1PAZ 59 S20X
7W2	Threaded insert	15 A	6007W2PAZ 59 S20X
11W1	Threaded insert	15 A	6011W1PAZ 59 S20X
9W4	Threaded insert	15 A	6009W4PAZ 59 S20X
13W3	Threaded insert	15 A	6013W3PAZ 59 S20X
17W2	Threaded insert	15 A	6017W2PAZ 59 S20X
21W1	Threaded insert	15 A	6021W1PAZ 59 S20X
13W6	Threaded insert	15 A	6013W6PAZ 59 S20X
17W5	Threaded insert	15 A	6017W5PAZ 59 S20X
21WA4	Threaded insert	15 A	621WA4PAZ 59 S20X
25W3	Threaded insert	15 A	6025W3PAZ 59 S20X
27W2	Threaded insert	15 A	6027W2PAZ 59 S20X

For other contacts refer to page 6 | 32 to 6 | 37

Contact	Code
High power 15 A ; E= .075" / 1.90 mm =	59
High power 20 A ; E= .110" / 2.85 mm =	73
High power 30 A ; E= .126" / 3.20 mm =	74
High power 40 A ; E= .150" / 3.75 mm =	75

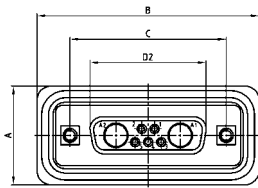
IP67 COMBINATION D-SUB

Solder pin – Angled – .465" / 11.8 mm – Precision machined contacts – Metal bracket with PCB clip

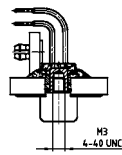
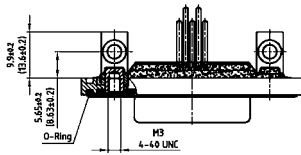


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

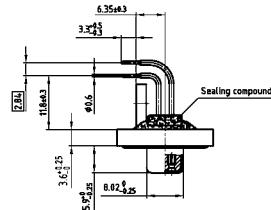
SOCKET CONNECTOR



Shellsize	A +0.3	B +0.3	C	D2 ±0.25
1	21.10	39.40	25.00 ^{+0.12} _{-0.13}	16.46
2	21.10	47.70	33.30 ^{+0.15} _{-0.10}	24.79
3	21.10	61.40	47.04 ^{+0.13}	38.50
4	21.10	77.90	63.50 ±0.13	54.96



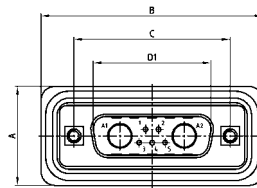
Shellsize 1-4



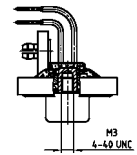
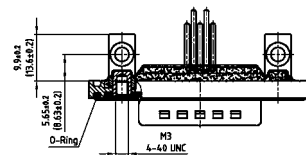
DESCRIPTION

- Contacts: high power or coaxial contacts
- Mounting style: metal bracket, threaded insert and 4-40 UNC or M3 PCB clip
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (Stainless steel on request)
- Nickel plated die-cast frame (Black plastic frame on request)
- Shellsize 5 on request
- Stainless steel hex bolts are supplied loose

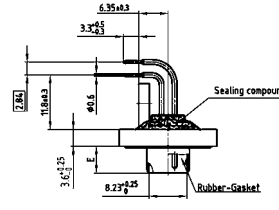
PLUG CONNECTOR



Shellsize	A +0.3	B +0.3	C	D1 ±0.25	E -0.30
1	21.10	39.40	25.00 ^{+0.12} _{-0.13}	16.79	5.82
2	21.10	47.70	33.30 ^{+0.15} _{-0.10}	25.12	5.82
3	21.10	61.40	47.04 ^{+0.13}	38.84	5.69
4	21.10	77.90	63.50 ±0.13	55.30	5.69



Shellsize 1-4



ORDER DATA

SOCKET CONNECTOR		High power contact	Part Number
Design	Mounting style 4-40 UNC		
5W1	PCB clip/Threaded insert	15 A	6005W1SAZ 59 S40X
7W2	PCB clip/Threaded insert	15 A	6007W2SAZ 59 S40X
11W1	PCB clip/Threaded insert	15 A	6011W1SAZ 59 S40X
9W4	PCB clip/Threaded insert	15 A	6009W4SAZ 59 S40X
13W3	PCB clip/Threaded insert	15 A	6013W3SAZ 59 S40X
17W2	PCB clip/Threaded insert	15 A	6017W2SAZ 59 S40X
21W1	PCB clip/Threaded insert	15 A	6021W1SAZ 59 S40X
13W6	PCB clip/Threaded insert	15 A	6013W6SAZ 59 S40X
17W5	PCB clip/Threaded insert	15 A	6017W5SAZ 59 S40X
21WA4	PCB clip/Threaded insert	15 A	621WA4SAZ 59 S40X
25W3	PCB clip/Threaded insert	15 A	6025W3SAZ 59 S40X
27W2	PCB clip/Threaded insert	15 A	6027W2SAZ 59 S40X

PLUG CONNECTOR		High power contact	Part Number
Design	Mounting style 4-40 UNC		
5W1	PCB clip/Threaded insert	15 A	6005W1PAZ 59 S40X
7W2	PCB clip/Threaded insert	15 A	6007W2PAZ 59 S40X
11W1	PCB clip/Threaded insert	15 A	6011W1PAZ 59 S40X
9W4	PCB clip/Threaded insert	15 A	6009W4PAZ 59 S40X
13W3	PCB clip/Threaded insert	15 A	6013W3PAZ 59 S40X
17W2	PCB clip/Threaded insert	15 A	6017W2PAZ 59 S40X
21W1	PCB clip/Threaded insert	15 A	6021W1PAZ 59 S40X
13W6	PCB clip/Threaded insert	15 A	6013W6PAZ 59 S40X
17W5	PCB clip/Threaded insert	15 A	6017W5PAZ 59 S40X
21WA4	PCB clip/Threaded insert	15 A	621WA4PAZ 59 S40X
25W3	PCB clip/Threaded insert	15 A	6025W3PAZ 59 S40X
27W2	PCB clip/Threaded insert	15 A	6027W2PAZ 59 S40X

PCB clip .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness.
For other contacts prefer to page 6|32 to 6|37

Contact	Code
High power 15 A ; E= .075" / 1.90 mm =	59
High power 20 A ; E= .110" / 2.85 mm =	73
High power 30 A ; E= .126" / 3.20 mm =	74
High power 40 A ; E= .150" / 3.75 mm =	75

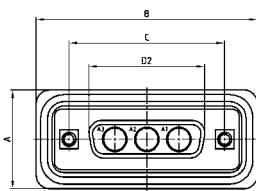
IP67 COMBINATION D-SUB

Solder cup – Solder pin – Straight – With power or coaxial contacts – Precision machined contacts



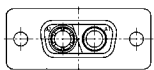
RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

SOCKET CONNECTOR

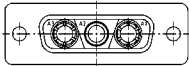


Shellsize	A +0.3	B +0.3	C	D2 +0.25
1	21.10	39.40	25.00 ^{+0.12} _{-0.13}	16.46
2	21.10	47.70	33.30 ^{+0.15} _{-0.10}	24.79
3	21.10	61.40	47.04 ^{+0.13}	38.50
4	21.10	77.90	63.50 ^{+0.13}	54.96

Coded socket connectors

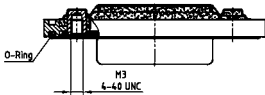


2W2C = 1 Socket – 1 Plug

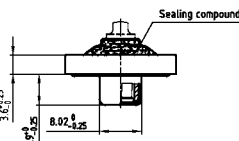
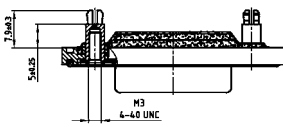


3W3C = 2 Sockets – 1 Plug

Mounting style: Threaded insert (Solder cup)



Mounting style: Threaded rear spacer with PCB clip (Solder pin)



ORDER DATA

SOCKET CONNECTOR			
Design	Mounting style / Solder cup	Contact	Part Number
2W2C	Threaded insert 4-40 UNC	High power 10A	602W2CSXX 61 B30X
3W3	Threaded insert 4-40 UNC	High power 10A	6003W3SXX 61 B30X
3W3C	Threaded insert 4-40 UNC	High power 10A	603W3CSXX 61 B30X
5W5	Threaded insert 4-40 UNC	High power 10A	6005W5SXX 61 B30X
8W8	Threaded insert 4-40 UNC	High power 10A	6008W8SXX 61 B30X
Design	Mounting style / Solder pin	Contact	Part Number
2W2C	Rear spacer with clip 4-40 UNC	High power 10A	602W2CSXX 68 E20X
3W3	Rear spacer with clip 4-40 UNC	High power 10A	6003W3SXX 68 E20X
3W3C	Rear spacer with clip 4-40 UNC	High power 10A	603W3CSXX 68 E20X
5W5	Rear spacer with clip 4-40 UNC	High power 10A	6005W5SXX 68 E20X
8W8	Rear spacer with clip 4-40 UNC	High power 10A	6008W8SXX 68 E20X

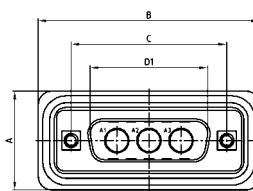
PCB clip .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness.

For other contacts refer to page 6|32 to 6|37

DESCRIPTION

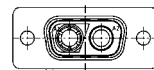
- Designs: 2W2C; 3W3; 3W3C; 5W5; 8W8
- Contacts: high power or coaxial contacts
- Mounting styles:
 - with 4-40 UNC or M3 threaded insert
 - with 4-40 UNC or M3 threaded rear spacer with PCB clip
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (Stainless steel on request)
- Nickel plated die-cast frame (Black plastic frame on request)
- Stainless steel hex bolts are supplied loose

PLUG CONNECTOR

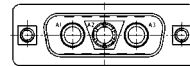


Shellsize	A +0.3	B +0.3	C	D1 +0.25	E -0.30
1	21.10	39.40	25.00 ^{+0.12} _{-0.13}	16.79	5.82
2	21.10	47.70	33.30 ^{+0.15} _{-0.10}	25.12	5.82
3	21.10	61.40	47.04 ^{+0.13}	38.84	5.69
4	21.10	77.90	63.50 ^{+0.13}	55.30	5.69

Coded plug connectors

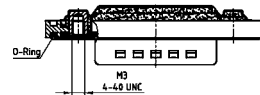


2W2C = 1 Plug – 1 Socket

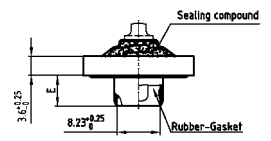
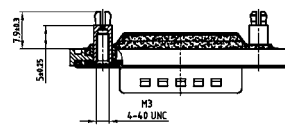


3W3C = 2 Plugs – 1 Socket

Mounting style: Threaded insert (Solder cup)



Mounting style: Threaded rear spacer with PCB clip (Solder pin)



PLUG CONNECTOR			
Design	Mounting style / Solder cup	Contact	Part Number
2W2C	Threaded insert 4-40 UNC	High power 10A	602W2CPXX 61 B30X
3W3	Threaded insert 4-40 UNC	High power 10A	6003W3PXX 61 B30X
3W3C	Threaded insert 4-40 UNC	High power 10A	603W3CPXX 61 B30X
5W5	Threaded insert 4-40 UNC	High power 10A	6005W5PXX 61 B30X
8W8	Threaded insert 4-40 UNC	High power 10A	6008W8PXX 61 B30X
Design	Mounting style / Solder pin	Contact	Part Number
2W2C	Rear spacer with clip 4-40 UNC	High power 10A	602W2CPXX 68 E20X
3W3	Rear spacer with clip 4-40 UNC	High power 10A	6003W3PXX 68 E20X
3W3C	Rear spacer with clip 4-40 UNC	High power 10A	603W3CPXX 68 E20X
5W5	Rear spacer with clip 4-40 UNC	High power 10A	6005W5PXX 68 E20X
8W8	Rear spacer with clip 4-40 UNC	High power 10A	6008W8PXX 68 E20X

*Contact solder cup	Code
High power 10A	= 61
High power 20A	= 62

Contact solder pin straight	Code
High power 20A, D=1,95	= 68
High power 20A, D=2,60	= 69
High power 20A, D=2,85	= 70
High power 30A, D=3,18	= 71
High power 40A, D=3,75	= 72

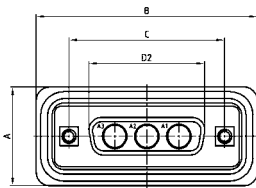
IP67 COMBINATION D-SUB

Solder pin – Angled – With power or coaxial contacts –
Precision machined contacts – Metal bracket



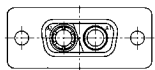
RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

SOCKET CONNECTOR

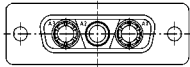


Shellsize	A +0.3	B +0.3	C	D2 +0.25
1	21.10	39.40	25.00 ^{+0.12/-0.13}	16.46
2	21.10	47.70	33.30 ^{+0.15/-0.10}	24.79
3	21.10	61.40	47.04 ^{+0.13}	38.50
4	21.10	77.90	63.50 ^{+0.13}	54.96

Coded socket connectors

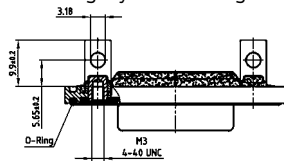


2W2C = 1 Socket – 1 Plug

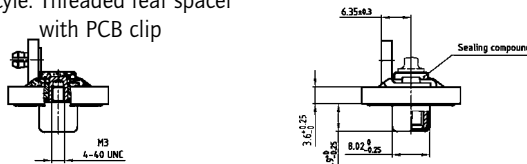


3W3C = 2 Sockets – 1 Plug

Mounting style: Mounting bracket, threaded insert



Mounting style: Threaded rear spacer with PCB clip



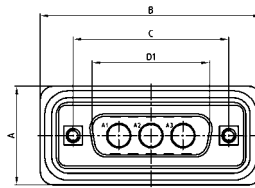
ORDER DATA

SOCKET CONNECTOR		High	Part Number
Design	Mounting style 4-40 UNC	power contact	
2W2C	Threaded insert	15 A	602W2CSXX 59 S20X
3W3	Threaded insert	15 A	6003W3SXX 59 S20X
3W3C	Threaded insert	15 A	603W3CSXX 59 S20X
5W5	Threaded insert	15 A	6005W5SXX 59 S20X
8W8	Threaded insert	15 A	6008W8SXX 59 S20X
2W2C	Threaded rear spacer / PCB clip	15 A	602W2CSXX 59 S40X
3W3	Threaded rear spacer / PCB clip	15 A	6003W3SXX 59 S40X
3W3C	Threaded rear spacer / PCB clip	15 A	603W3CSXX 59 S40X
5W5	Threaded rear spacer / PCB clip	15 A	6005W5SXX 59 S40X
8W8	Threaded rear spacer / PCB clip	15 A	6008W8SXX 59 S40X

DESCRIPTION

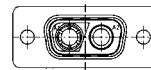
- Designs: 2W2C; 3W3; 3W3C; 5W5; 8W8
- Contacts: high power or coaxial contacts
- Mounting styles:
 - with 4-40 UNC or M3 threaded insert
 - with 4-40 UNC or M3 threaded rear spacer with PCB clip
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (Stainless steel on request)
- Nickel plated die-cast frame (Black plastic frame on request)
- Stainless steel hex bolts are supplied loose

PLUG CONNECTOR

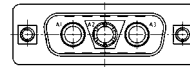


Shellsize	A +0.3	B +0.3	C	D1 +0.25	E -0.30
1	21.10	39.40	25.00 ^{+0.12/-0.13}	16.79	5.82
2	21.10	47.70	33.30 ^{+0.15/-0.10}	25.12	5.82
3	21.10	61.40	47.04 ^{+0.13}	38.84	5.69
4	21.10	77.90	63.50 ^{+0.13}	55.30	5.69

Coded plug connectors

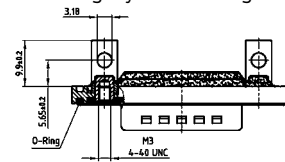


2W2C = 1 Plug – 1 Socket

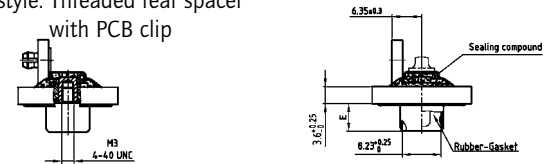


3W3C = 2 Plugs – 1 Socket

Mounting style: Mounting bracket, threaded insert



Mounting style: Threaded rear spacer with PCB clip



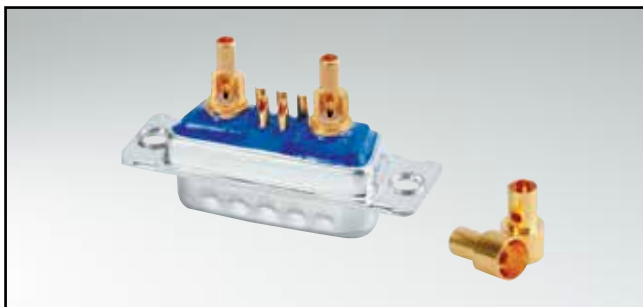
PCB clip .122"/.31 ± .004"/.10 mm hole diameter and .063"/.16 mm circuit board thickness.

For other contacts prefer to page 6|32 to 6|37

Contact	Code
High power 15 A	= 59
High power 20 A	= 73
High power 30 A	= 74
High power 40 A	= 75

IP67 COMBINATION D-SUB – WITHOUT FRAME

Solder cup – Precision machined contacts – Design for use with hood –
For wire size AWG20

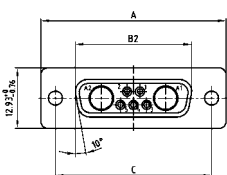


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

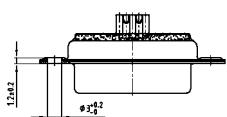
DESCRIPTION

- Signal contacts for wire size AWG 20
- Contacts: high power or coaxial contacts
- Mounting style:
through-hole Ø .118" / 3.0 mm
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (Stainless steel on request)

SOCKET CONNECTOR

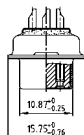
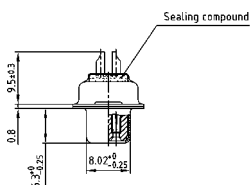


Shellsize	A -0.76	B2 -0.25	C
1	31.19	16.46	25.00 ^{+0.12} _{-0.13}
2	39.52	24.79	33.30 ^{+0.15} _{-0.10}
3	53.42	38.50	47.04 ^{+0.13}
4	69.70	54.96	63.50 ^{+0.13}
5	67.31	52.55	61.10 ^{+0.14} _{-0.11}

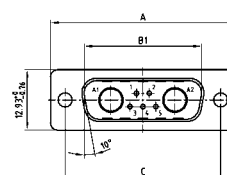


Shellsize 1-4

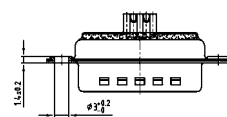
Shellsize 5



PLUG CONNECTOR

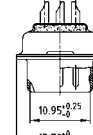
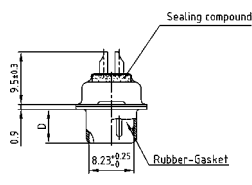


Shellsize	A -0.76	B1 +0.25	C	D -0.30
1	31.19	16.79	25.00 ^{+0.12} _{-0.13}	6.12
2	39.52	25.12	33.30 ^{+0.15} _{-0.10}	6.12
3	53.42	38.84	47.04 ^{+0.13}	5.99
4	69.70	55.30	63.50 ^{+0.13}	5.99
5	67.31	52.68	61.10 ^{+0.14} _{-0.11}	5.99



Shellsize 1-4

Shellsize 5



ORDER DATA

SOCKET CONNECTOR		High power contact	Part Number
5W1	Through-hole	10 A	4005W1SAM 61 A10X
7W2	Through-hole	10 A	4007W2SAM 61 A10X
11W1	Through-hole	10 A	4011W1SAM 61 A10X
9W4	Through-hole	10 A	4009W4SAM 61 A10X
13W3	Through-hole	10 A	4013W3SAM 61 A10X
17W2	Through-hole	10 A	4017W2SAM 61 A10X
21W1	Through-hole	10 A	4021W1SAM 61 A10X
13W6	Through-hole	10 A	4013W6SAM 61 A10X
17W5	Through-hole	10 A	4017W5SAM 61 A10X
21WA4	Through-hole	10 A	421WA4SAM 61 A10X
25W3	Through-hole	10 A	4025W3SAM 61 A10X
27W2	Through-hole	10 A	4027W2SAM 61 A10X
24W7	Through-hole	10 A	4024W7SAM 61 A10X
36W4	Through-hole	10 A	4036W4SAM 61 A10X
43W2	Through-hole	10 A	4043W2SAM 61 A10X
47W1	Through-hole	10 A	4047W1SAM 61 A10X

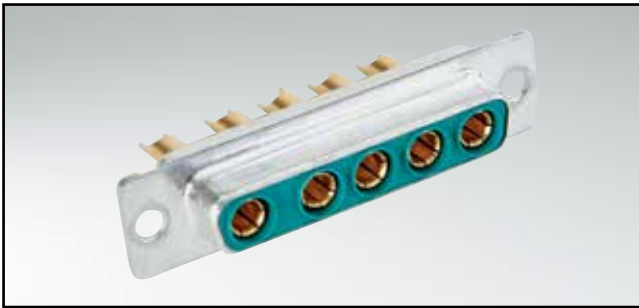
PLUG CONNECTOR		High power contact	Part Number
5W1	Through-hole	10 A	4005W1PAM 61 A10X
7W2	Through-hole	10 A	4007W2PAM 61 A10X
11W1	Through-hole	10 A	4011W1PAM 61 A10X
9W4	Through-hole	10 A	4009W4PAM 61 A10X
13W3	Through-hole	10 A	4013W3PAM 61 A10X
17W2	Through-hole	10 A	4017W2PAM 61 A10X
21W1	Through-hole	10 A	4021W1PAM 61 A10X
13W6	Through-hole	10 A	4013W6PAM 61 A10X
17W5	Through-hole	10 A	4017W5PAM 61 A10X
21WA4	Through-hole	10 A	421WA4PAM 61 A10X
25W3	Through-hole	10 A	4025W3PAM 61 A10X
27W2	Through-hole	10 A	4027W2PAM 61 A10X
24W7	Through-hole	10 A	4024W7PAM 61 A10X
36W4	Through-hole	10 A	4036W4PAM 61 A10X
43W2	Through-hole	10 A	4043W2PAM 61 A10X
47W1	Through-hole	10 A	4047W1PAM 61 A10X

For other contacts refer to page 7 | 24 up to 7 | 29.

Contact	Code
High power 10 A	= 61
High power 20 A	= 62

IP67 COMBINATION D-SUB – WITHOUT FRAME

Solder cup – Precision machined contacts – Design for use with hood

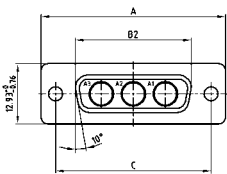


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

DESCRIPTION

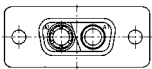
- Designs: 2W2C; 3W3; 3W3C; 5W5; 8W8
- Contacts: high power or coaxial contacts
- Mounting style: through-hole Ø .118" / 3.0 mm
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (Stainless steel on request)

SOCKET CONNECTOR

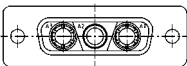


Shellsize	A -0.76	B2 -0.25	C
1	31.19	16.46	25.00 ^{+0.12} _{-0.13}
2	39.52	24.79	33.30 ^{+0.15} _{-0.10}
3	53.42	38.50	47.04 ^{+0.13} _{-0.10}
4	69.70	54.96	63.50 ^{+0.13} _{-0.10}

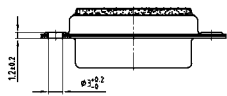
Coded socket connectors



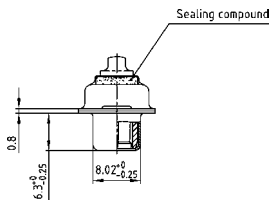
2W2C = 1 Socket – 1 Plug



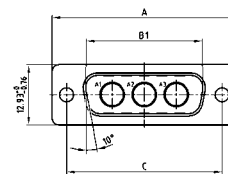
3W3C = 2 Sockets – 1 Plug



Shellsize 1-4

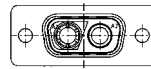


PLUG CONNECTOR

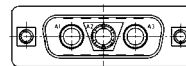


Shellsize	A -0.76	B1 +0.25	C	D -0.30
1	31.19	16.79	25.00 ^{+0.12} _{-0.13}	6.12
2	39.52	25.12	33.30 ^{+0.15} _{-0.10}	6.12
3	53.42	38.84	47.04 ^{+0.13} _{-0.10}	5.99
4	69.70	55.30	63.50 ^{+0.13} _{-0.10}	5.99

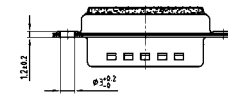
Coded plug connectors



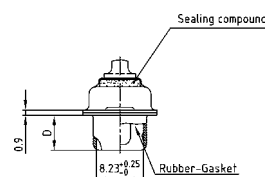
2W2C = 1 Plug – 1 Socket



3W3C = 2 Plugs – 2 Socket



Shellsize 1-4



ORDER DATA

SOCKET CONNECTOR		High power contact	Part Number
2W2C	Through-hole	10 A	402W2CSXX 61 A10X
3W3	Through-hole	10 A	4003W3SXX 61 A10X
3W3C	Through-hole	10 A	403W3CSXX 61 A10X
5W5	Through-hole	10 A	4005W5SXX 61 A10X
8W8	Through-hole	10 A	4008W8SXX 61 A10X

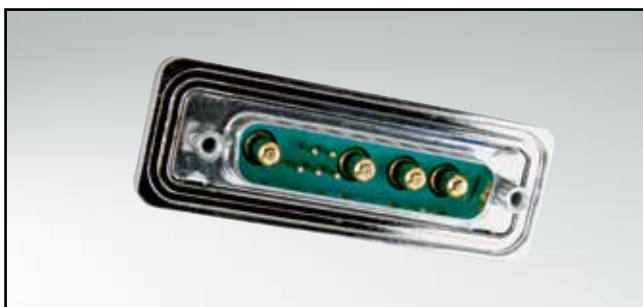
PLUG CONNECTOR		High power contact	Part Number
2W2C	Through-hole	10 A	402W2CPXX 61 A10X
3W3	Through-hole	10 A	4003W3PXX 61 A10X
3W3C	Through-hole	10 A	403W3CPXX 61 A10X
5W5	Through-hole	10 A	4005W5PXX 61 A10X
8W8	Through-hole	10 A	4008W8PXX 61 A10X

For other contacts refer to page 7 | 24 up to 7 | 29.

Contact solder cup	Code
High power 10 A	= 61
High power 20 A	= 62

IP67 COMBINATION D-SUB – FRONT PANEL MOUNTING

Solder cup – Precision machined contacts

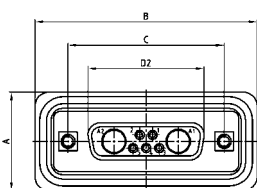


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

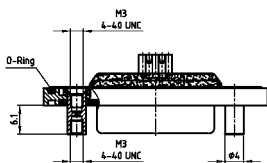
DESCRIPTION

- Signal contacts for wire size AWG 20
- Contacts: high power or coaxial contacts
- Mounting style: with 4-40 UNC or M3 front spacer
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated (Stainless steel on request)
- Nickel plated die-cast frame (Black plastic frame on request)
- Stainless steel hex bolts are supplied loose

SOCKET CONNECTOR



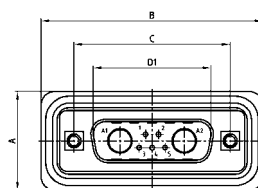
Shellsize	A +0.3	B +0.3	C	D2 ±0.25
1	21.10	39.40	25.00 ^{+0.12} _{-0.13}	16.46
2	21.10	47.70	33.30 ^{+0.15} _{-0.10}	24.79
3	21.10	61.40	47.04 ^{+0.13}	38.50
4	21.10	77.90	63.50 ^{+0.13}	54.96
5	23.90	75.50	61.10 ^{+0.14} _{-0.11}	52.55



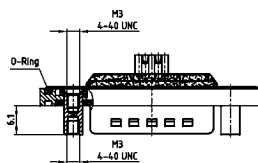
Shellsize 1-4

Shellsize 5

PLUG CONNECTOR

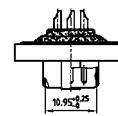
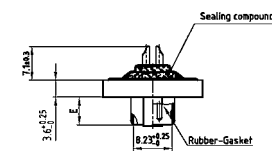
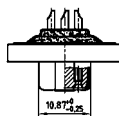
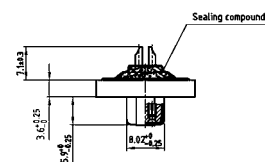


Shellsize	A +0.3	B +0.3	C	D1 ±0.25	E ±0.30
1	21.10	39.40	25.00 ^{+0.12} _{-0.13}	16.79	5.82
2	21.10	47.70	33.30 ^{+0.15} _{-0.10}	25.12	5.82
3	21.10	61.40	47.04 ^{+0.13}	38.84	5.69
4	21.10	77.90	63.50 ^{+0.13}	55.30	5.69
5	23.90	75.50	61.10 ^{+0.14} _{-0.11}	52.68	5.69



Shellsize 1-4

Shellsize 5



ORDER DATA

SOCKET CONNECTOR		High power contact	Part Number
Design	Mounting style 4-40 UNC		
5W1	Front spacer	10 A	6005W1SAM 61 B50X
7W2	Front spacer	10 A	6007W2SAM 61 B50X
11W1	Front spacer	10 A	6011W1SAM 61 B50X
9W4	Front spacer	10 A	6009W4SAM 61 B50X
13W3	Front spacer	10 A	6013W3SAM 61 B50X
17W2	Front spacer	10 A	6017W2SAM 61 B50X
21W1	Front spacer	10 A	6021W1SAM 61 B50X
13W6	Front spacer	10 A	6013W6SAM 61 B50X
17W5	Front spacer	10 A	6017W5SAM 61 B50X
21WA4	Front spacer	10 A	621WA4SAM 61 B50X
25W3	Front spacer	10 A	6025W3SAM 61 B50X
27W2	Front spacer	10 A	6027W2SAM 61 B50X
24W7	Front spacer	10 A	6024W7SAM 61 B50X
36W4	Front spacer	10 A	6036W4SAM 61 B50X
43W2	Front spacer	10 A	6043W2SAM 61 B50X
47W1	Front spacer	10 A	6047W1SAM 61 B50X

PLUG CONNECTOR		High power contact	Part Number
Design	Mounting style 4-40 UNC		
5W1	Front spacer	10 A	6005W1PAM 61 B50X
7W2	Front spacer	10 A	6007W2PAM 61 B50X
11W1	Front spacer	10 A	6011W1PAM 61 B50X
9W4	Front spacer	10 A	6009W4PAM 61 B50X
13W3	Front spacer	10 A	6013W3PAM 61 B50X
17W2	Front spacer	10 A	6017W2PAM 61 B50X
21W1	Front spacer	10 A	6021W1PAM 61 B50X
13W6	Front spacer	10 A	6013W6PAM 61 B50X
17W5	Front spacer	10 A	6017W5PAM 61 B50X
21WA4	Front spacer	10 A	621WA4PAM 61 B50X
25W3	Front spacer	10 A	6025W3PAM 61 B50X
27W2	Front spacer	10 A	6027W2PAM 61 B50X
24W7	Front spacer	10 A	6024W7PAM 61 B50X
36W4	Front spacer	10 A	6036W4PAM 61 B50X
43W2	Front spacer	10 A	6043W2PAM 61 B50X
47W1	Front spacer	10 A	6047W1PAM 61 B50X

For other contacts refer to page 7 | 24 up to 7 | 29.

Contact	Code
High power 10 A	= 61
High power 20 A	= 62

IP67 COMBINATION D-SUB – FRONT PANEL MOUNTING

Solder cup – With power or coaxial contacts – Precision machined contacts

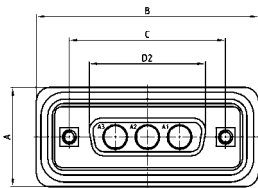


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

DESCRIPTION

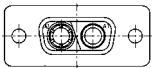
- Designs: 2W2C; 3W3; 3W3C; 5W5; 8W8
- Contacts: high power or coaxial contacts
- Mounting styles: with 4-40 UNC or M3 front spacer
- Quality class 3 (also available in quality class 1)
- Shell: Brass tin plated
- Nickel plated die-cast frame (Black plastic frame on request)
- Stainless steel hex bolts are supplied loose

SOCKET CONNECTOR

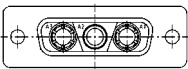


Dimensions in mm				
Shellsize	A +0.3	B +0.3	C	D2 +0.25
1	39.40	16.46	24.99 ^{+0.13} _{-0.12}	16.79
2	47.70	24.79	33.32 ^{+0.13} _{-0.12}	25.12
3	61.40	38.50	47.04 ^{+0.13}	38.84
4	77.90	54.96	63.50 ^{+0.13}	55.30

Coded socket connectors

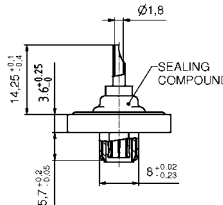
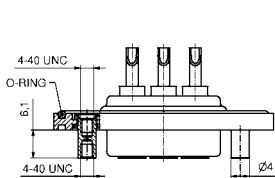


2W2C = 1 Socket – 1 Plug

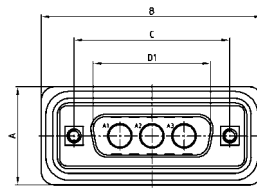


3W3C = 2 Sockets – 1 Plug

Shellsize 1-4

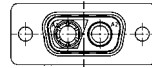


PLUG CONNECTOR

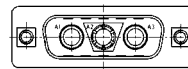


Dimensions in mm					
Shellsize	A +0.3	B +0.3	C	D1 +0.25	E -0.30
1	39.40	16.46	24.99 ^{+0.13} _{-0.12}	16.46	5.82
2	47.70	24.79	33.32 ^{+0.13} _{-0.12}	24.79	5.82
3	61.40	38.50	47.04 ^{+0.13}	38.50	5.69
4	77.90	54.96	63.50 ^{+0.13}	54.96	5.69

Coded plug connectors

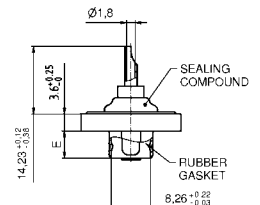
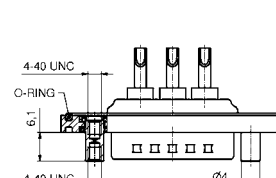


2W2C = 1 Plug – 1 Socket



3W3C = 2 Plugs – 1 Socket

Shellsize 1-4



ORDER DATA

SOCKET CONNECTOR		High	Part Number
Design	Mounting style 4-40 UNC	power contact	
2W2C	Front spacer	10 A	602W2CSXX 61 B50X
3W3	Front spacer	10 A	6003W3SXX 61 B50X
3W3C	Front spacer	10 A	603W3CSXX 61 B50X
5W5	Front spacer	10 A	6005W5SXX 61 B50X
8W8	Front spacer	10 A	6008W8SXX 61 B50X

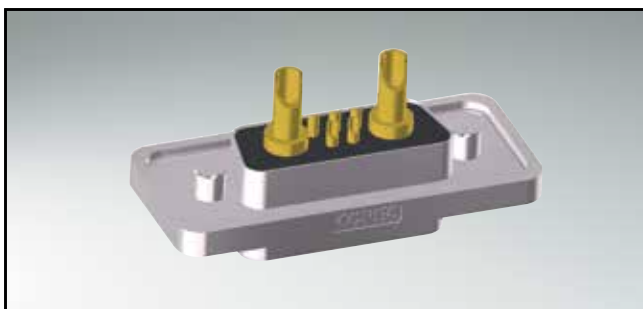
PLUG CONNECTOR		High	Part Number
Design	Mounting style 4-40 UNC	power contact	
2W2C	Front spacer	10 A	602W2CPXX 61 B50X
3W3	Front spacer	10 A	6003W3PXX 61 B50X
3W3C	Front spacer	10 A	603W3CPXX 61 B50X
5W5	Front spacer	10 A	6005W5PXX 61 B50X
8W8	Front spacer	10 A	6008W8PXX 61 B50X

For other contacts refer to page 7 | 24 up to 7 | 29.

Contact	Code
High power 10 A	= 61
High power 20 A	= 62

IP67 COMBINATION D-SUB SOLID BODY

Solder cup – Precision machined contacts – For wire size AWG 20 and AWG 12 - 14

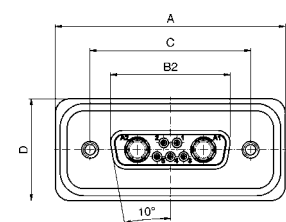


RoHS compliant – UL listed, File No.: E202784

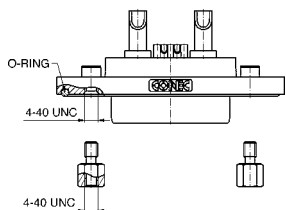
DESCRIPTION

- Signal contacts for wire size AWG 20
- High power contacts 20A for cable AWG 12 - 14
- Mounting style:
with 4-40 UNC threaded insert
- Quality class 3 (also available in quality class 1)
- One-piece zinc die-cast nickel plated shell
- IP67 for harsh environments, pressure-proof up to 1.45 PSI
- Stainless steel hex bolts are supplied loose

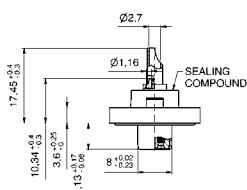
SOCKET CONNECTOR



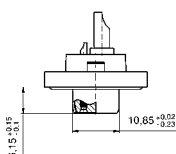
Shellsize	A	B2 -0.25	C	D
1	39.40 ^{+0.3} ₋₀	16.46	25.00 ^{+0.12} _{-0.13}	21.10 ^{+0.3}
2	47.70 ^{+0.3} ₋₀	24.79	33.32 ^{+0.13} _{-0.12}	21.10 ^{+0.3}
3	61.40 ^{+0.3} ₋₀	38.50	47.04 ^{+0.13}	21.10 ^{+0.3}
4	78.00 ^{+0.3} ₋₀	54.96	63.50 ^{+0.13}	21.10 ^{+0.3}
5	75.60 ^{+0.3} _{-0.1}	52.55	61.10 ^{+0.14} _{-0.11}	23.90 ^{+0.3} _{-0.1}



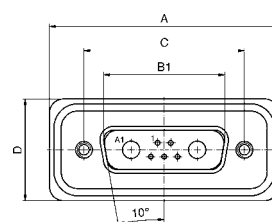
Shellsize 1-4



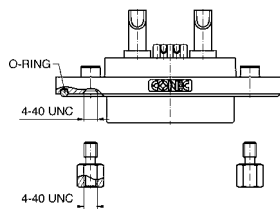
Shellsize 5



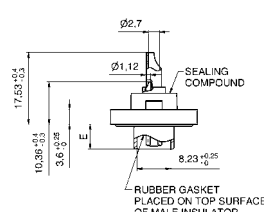
PLUG CONNECTOR



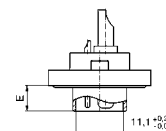
Shellsize	A	B1	C	D	E
1	39.40 ^{+0.3} ₋₀	16.81 ^{+0.23} _{-0.02}	25.00 ^{+0.12} _{-0.13}	21.10 ^{+0.3}	6.00 ^{+0.12} _{-0.18}
2	47.70 ^{+0.3} ₋₀	25.14 ^{+0.23} _{-0.02}	33.32 ^{+0.13} _{-0.12}	21.10 ^{+0.3}	6.00 ^{+0.12} _{-0.18}
3	61.40 ^{+0.3} ₋₀	38.86 ^{+0.23} _{-0.02}	47.04 ^{+0.13}	21.10 ^{+0.3}	5.99 ^{+0.3}
4	78.00 ^{+0.3} ₋₀	55.32 ^{+0.23} _{-0.02}	63.50 ^{+0.13}	21.10 ^{+0.3}	5.99 ^{+0.3}
5	75.60 ^{+0.3} _{-0.1}	52.80 ^{+0.13} _{-0.12}	61.10 ^{+0.14} _{-0.11}	23.90 ^{+0.3} _{-0.1}	5.99 ^{+0.3}



Shellsize 1-4



Shellsize 5



ORDER DATA

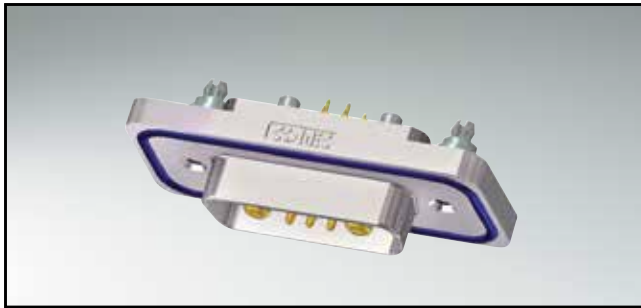
SOCKET CONNECTOR			
Design	Mounting style	Power contact	Part Number
5W1	Threaded insert 4-40 UNC	High power 20A	15-005063
7W2	Threaded insert 4-40 UNC	High power 20A	15-001103
11W1	Threaded insert 4-40 UNC	High power 20A	15-005073
9W4	Threaded insert 4-40 UNC	High power 20A	15-005083
13W3	Threaded insert 4-40 UNC	High power 20A	15-004563
17W2	Threaded insert 4-40 UNC	High power 20A	15-004453
21W1	Threaded insert 4-40 UNC	High power 20A	15-005093
13W6	Threaded insert 4-40 UNC	High power 20A	15-005103
17W5	Threaded insert 4-40 UNC	High power 20A	15-005113
21WA4	Threaded insert 4-40 UNC	High power 20A	15-005123
25W3	Threaded insert 4-40 UNC	High power 20A	15-005133
27W2	Threaded insert 4-40 UNC	High power 20A	15-005143
24W7	Threaded insert 4-40 UNC	High power 20A	15-005153
36W4	Threaded insert 4-40 UNC	High power 20A	15-005163
43W2	Threaded insert 4-40 UNC	High power 20A	15-004593
47W1	Threaded insert 4-40 UNC	High power 20A	15-005183

PLUG CONNECTOR			
Design	Mounting style	Power contact	Part Number
5W1	Threaded insert 4-40 UNC	High power 20A	15-005193
7W2	Threaded insert 4-40 UNC	High power 20A	15-004643
11W1	Threaded insert 4-40 UNC	High power 20A	15-005203
9W4	Threaded insert 4-40 UNC	High power 20A	15-005213
13W3	Threaded insert 4-40 UNC	High power 20A	15-004553
17W2	Threaded insert 4-40 UNC	High power 20A	15-004543
21W1	Threaded insert 4-40 UNC	High power 20A	15-005223
13W6	Threaded insert 4-40 UNC	High power 20A	15-005233
17W5	Threaded insert 4-40 UNC	High power 20A	15-005243
21WA4	Threaded insert 4-40 UNC	High power 20A	15-005253
25W3	Threaded insert 4-40 UNC	High power 20A	15-005263
27W2	Threaded insert 4-40 UNC	High power 20A	15-005273
24W7	Threaded insert 4-40 UNC	High power 20A	15-005283
36W4	Threaded insert 4-40 UNC	High power 20A	15-005293
43W2	Threaded insert 4-40 UNC	High power 20A	15-005303
47W1	Threaded insert 4-40 UNC	High power 20A	15-005313

Other high power or coaxial contacts on request.

IP67 COMBINATION D-SUB SOLID BODY

Solder pin – straight – Precision machined contacts

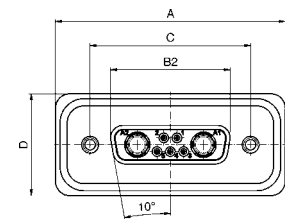


RoHS compliant – UL listed, File No.: E202784

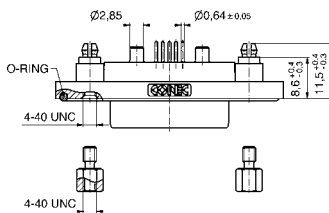
DESCRIPTION

- High power contacts 20A
- Mounting style:
4-40 UNC threaded rear spacer with PCB clip
- Quality class 3 (Also available in quality class 1)
- One-piece zinc die-cast nickel plated shell
- IP67 for harsh environments, pressure-proof up to 1.45 PSI
- Stainless steel hex bolts are supplied loose

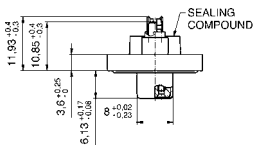
SOCKET CONNECTOR



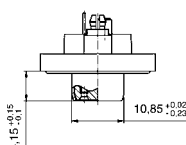
Shellsize	A	B2 -0.25	C	D2
1	39.40 ^{+0.3} ₀	16.46	25.00 ^{+0.12} _{-0.13}	21.10 ^{+0.3}
2	47.70 ^{+0.3} ₀	24.79	33.32 ^{+0.13} _{-0.12}	21.10 ^{+0.3}
3	61.40 ^{+0.3} ₀	38.50	47.04 ^{+0.13} _{-0.12}	21.10 ^{+0.3}
4	78.00 ^{+0.3} ₀	54.96	63.50 ^{+0.13} _{-0.14}	21.10 ^{+0.3}
5	75.60 ^{+0.3} _{-0.1}	52.55	61.10 ^{+0.11} _{-0.11}	23.90 ^{+0.3} _{-0.1}



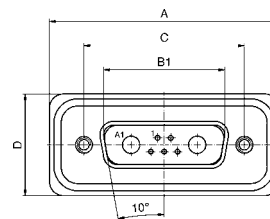
Shellsize 1-4



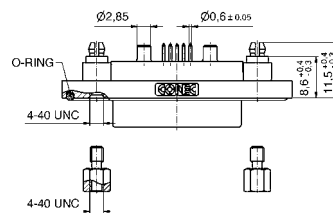
Shellsize 5



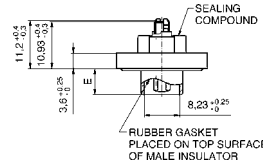
PLUG CONNECTOR



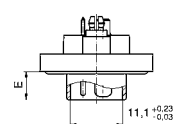
Shellsize	A	B1	C	D	E
1	39.40 ^{+0.3} ₀	16.81 ^{+0.23} _{0.02}	25.00 ^{+0.12} _{-0.13}	21.10 ^{+0.3}	6.00 ^{+0.12} _{-0.18}
2	47.70 ^{+0.3} ₀	25.14 ^{+0.23} _{0.02}	33.32 ^{+0.13} _{-0.12}	21.10 ^{+0.3}	6.00 ^{+0.12} _{-0.18}
3	61.40 ^{+0.3} ₀	38.86 ^{+0.23} _{0.02}	47.04 ^{+0.13} _{-0.12}	21.10 ^{+0.3}	5.99 ^{+0.3}
4	78.00 ^{+0.3} ₀	55.32 ^{+0.23} _{0.02}	63.50 ^{+0.13} _{-0.14}	21.10 ^{+0.3}	5.99 ^{+0.3}
5	75.60 ^{+0.3} _{-0.1}	52.80 ^{+0.13} _{-0.12}	61.10 ^{+0.11} _{-0.11}	23.90 ^{+0.3} _{-0.1}	5.99 ^{+0.3}



Shellsize 1-4



Shellsize 5



ORDER DATA

SOCKET CONNECTOR

Design	Mounting style 4-40 UNC	Power contact	Part Number
5W1	Threaded rear spacer PCB clip	High power 20A	15-005323
7W2	Threaded rear spacer PCB clip	High power 20A	15-001823
11W1	Threaded rear spacer PCB clip	High power 20A	15-005333
9W4	Threaded rear spacer PCB clip	High power 20A	15-005343
13W3	Threaded rear spacer PCB clip	High power 20A	15-005353
17W2	Threaded rear spacer PCB clip	High power 20A	15-005363
21W1	Threaded rear spacer PCB clip	High power 20A	15-005373
13W6	Threaded rear spacer PCB clip	High power 20A	15-005383
17W5	Threaded rear spacer PCB clip	High power 20A	15-005393
21WA4	Threaded rear spacer PCB clip	High power 20A	15-005403
25W3	Threaded rear spacer PCB clip	High power 20A	15-005413
27W2	Threaded rear spacer PCB clip	High power 20A	15-005423
24W7	Threaded rear spacer PCB clip	High power 20A	15-005433
36W4	Threaded rear spacer PCB clip	High power 20A	15-005443
43W2	Threaded rear spacer PCB clip	High power 20A	15-005453
47W1	Threaded rear spacer PCB clip	High power 20A	15-005463

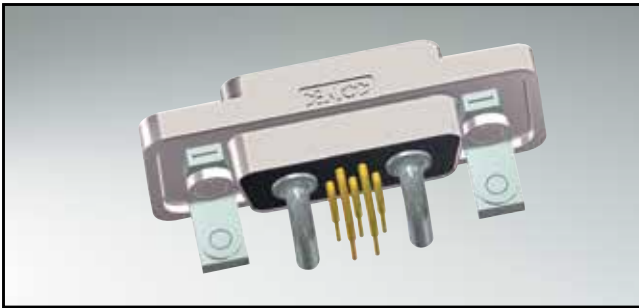
PLUG CONNECTOR

Design	Mounting style 4-40 UNC	Power contact	Part Number
5W1	Threaded rear spacer PCB clip	High power 20A	15-005473
7W2	Threaded rear spacer PCB clip	High power 20A	15-001863
11W1	Threaded rear spacer PCB clip	High power 20A	15-005483
9W4	Threaded rear spacer PCB clip	High power 20A	15-005493
13W3	Threaded rear spacer PCB clip	High power 20A	15-005503
17W2	Threaded rear spacer PCB clip	High power 20A	15-005513
21W1	Threaded rear spacer PCB clip	High power 20A	15-005523
13W6	Threaded rear spacer PCB clip	High power 20A	15-005533
17W5	Threaded rear spacer PCB clip	High power 20A	15-005543
21WA4	Threaded rear spacer PCB clip	High power 20A	15-005553
25W3	Threaded rear spacer PCB clip	High power 20A	15-005563
27W2	Threaded rear spacer PCB clip	High power 20A	15-005573
24W7	Threaded rear spacer PCB clip	High power 20A	15-005583
36W4	Threaded rear spacer PCB clip	High power 20A	15-005593
43W2	Threaded rear spacer PCB clip	High power 20A	15-005603
47W1	Threaded rear spacer PCB clip	High power 20A	15-005613

Other high power or coaxial contacts on request.

IP67 COMBINATION D-SUB SOLID BODY

Solder pin – Angled – .402" / 10.2 mm – Precision machined contacts – Metal bracket

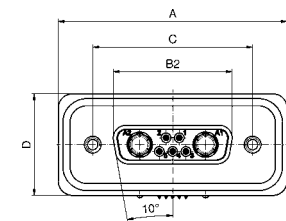


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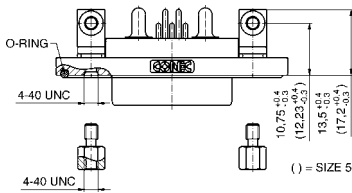
DESCRIPTION

- High power contacts 20A
- Mounting style: mounting bracket, 4-40 UNC PCB clip
- Quality class 3 (also available in quality class 1)
- One-piece zinc die-cast nickel plated shell
- IP67 for harsh environments, pressure-proof up to 1.45 PSI
- Stainless steel hex bolts are supplied loose

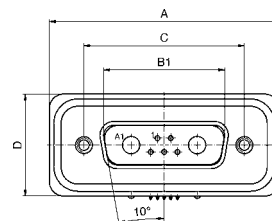
SOCKET CONNECTOR



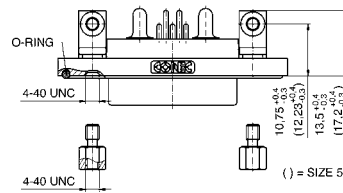
Shellsize	A	B2 -0.25	C	D
1	39.40 ^{+0.3} ₋₀	16.46	25.00 ^{+0.12} _{-0.13}	21.10 ^{+0.3}
2	47.70 ^{+0.3} ₋₀	24.79	33.32 ^{+0.13} _{-0.12}	21.10 ^{+0.3}
3	61.40 ^{+0.3} ₋₀	38.50	47.04 ^{+0.13} _{-0.13}	21.10 ^{+0.3}
4	78.00 ^{+0.3} ₋₀	54.96	63.50 ^{+0.13} _{-0.13}	21.10 ^{+0.3}
5	75.60 ^{+0.3} _{-0.1}	52.55	61.10 ^{+0.14} _{-0.11}	23.90 ^{+0.3} _{-0.1}



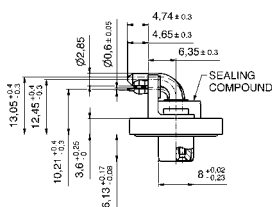
PLUG CONNECTOR



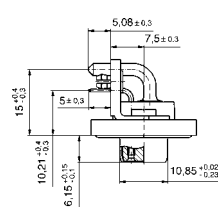
Shellsize	A	B1	C	D	E
1	39.40 ^{+0.3} ₋₀	16.81 ^{+0.23} _{-0.22}	25.00 ^{+0.12} _{-0.13}	21.10 ^{+0.3}	6.00 ^{+0.12} _{-0.18}
2	47.70 ^{+0.3} ₋₀	25.14 ^{+0.23} _{-0.22}	33.32 ^{+0.13} _{-0.12}	21.10 ^{+0.3}	6.00 ^{+0.12} _{-0.18}
3	61.40 ^{+0.3} ₋₀	38.86 ^{+0.23} _{-0.22}	47.04 ^{+0.13} _{-0.13}	21.10 ^{+0.3}	5.99 ^{+0.3}
4	78.00 ^{+0.3} ₋₀	55.32 ^{+0.23} _{-0.22}	63.50 ^{+0.13} _{-0.13}	21.10 ^{+0.3}	5.99 ^{+0.3}
5	75.60 ^{+0.3} _{-0.1}	52.80 ^{+0.13} _{-0.12}	61.10 ^{+0.14} _{-0.11}	23.90 ^{+0.3} _{-0.1}	5.99 ^{+0.3}



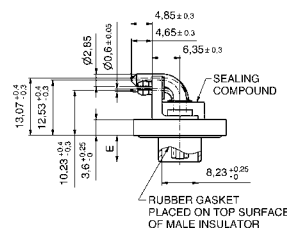
Shellsize 1-4



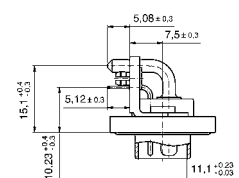
Shellsize 5



Shellsize 1-4



Shellsize 5



ORDER DATA

SOCKET CONNECTOR

Design	Mounting style 4-40 UNC	Power contact	Part number
5W1	Mounting bracket PCB clip	High power 20A	15-005623
7W2	Mounting bracket PCB clip	High power 20A	15-001463
11W1	Mounting bracket PCB clip	High power 20A	15-005633
9W4	Mounting bracket PCB clip	High power 20A	15-005643
13W3	Mounting bracket PCB clip	High power 20A	15-005653
17W2	Mounting bracket PCB clip	High power 20A	15-005663
21W1	Mounting bracket PCB clip	High power 20A	15-005673
13W6	Mounting bracket PCB clip	High power 20A	15-005683
17W5	Mounting bracket PCB clip	High power 20A	15-005693
21W4A	Mounting bracket PCB clip	High power 20A	15-005703
25W3	Mounting bracket PCB clip	High power 20A	15-005713
27W2	Mounting bracket PCB clip	High power 20A	15-005723
24W7	Mounting bracket PCB clip	High power 20A	15-005733
36W4	Mounting bracket PCB clip	High power 20A	15-005743
43W2	Mounting bracket PCB clip	High power 20A	15-004593
47W1	Mounting bracket PCB clip	High power 20A	15-005753

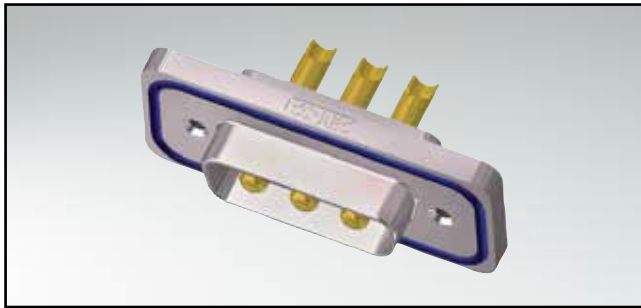
PLUG CONNECTOR

Design	Mounting style 4-40 UNC	Power contact	Part number
5W1	Mounting bracket PCB clip	High power 20A	15-005763
7W2	Mounting bracket PCB clip	High power 20A	15-001503
11W1	Mounting bracket PCB clip	High power 20A	15-005773
9W4	Mounting bracket PCB clip	High power 20A	15-005783
13W3	Mounting bracket PCB clip	High power 20A	15-005793
17W2	Mounting bracket PCB clip	High power 20A	15-002323
21W1	Mounting bracket PCB clip	High power 20A	15-005803
13W6	Mounting bracket PCB clip	High power 20A	15-005813
17W5	Mounting bracket PCB clip	High power 20A	15-005823
21W4A	Mounting bracket PCB clip	High power 20A	15-005833
25W3	Mounting bracket PCB clip	High power 20A	15-002333
27W2	Mounting bracket PCB clip	High power 20A	15-005843
24W7	Mounting bracket PCB clip	High power 20A	15-005853
36W4	Mounting bracket PCB clip	High power 20A	15-002293
43W2	Mounting bracket PCB clip	High power 20A	15-005863
47W1	Mounting bracket PCB clip	High power 20A	15-005873

Other high power or coaxial contacts on request.

IP67 COMBINATION D-SUB SOLID BODY

Solder cup – Precision machined contacts – For wire size AWG 12 - 14

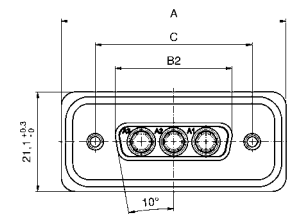


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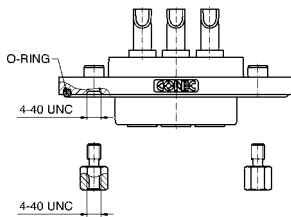
DESCRIPTION

- High power contacts 20A for wire size AWG 12 - 14
- Mounting style: with 4-40 UNC threaded insert
- Quality class 3 (Also available in quality class 1)
- One-piece zinc die-cast nickel plated shell
- IP67 for harsh environments, pressure-proof up to 1.45 PSI
- Stainless steel hex bolts are supplied loose

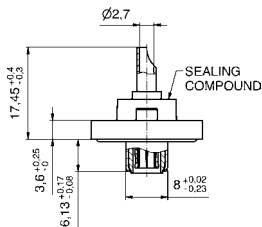
SOCKET CONNECTOR



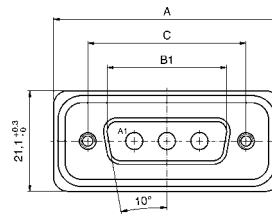
Shellsize	A	B2 ±0.25	C
1	39.40 ^{+0.3} ₀	16.46	25.00 ^{+0.12} _{-0.13}
2	47.70 ^{+0.3} ₀	24.79	33.32 ^{+0.13} _{-0.12}
3	61.40 ^{+0.3} ₀	38.50	47.04 ^{+0.13} ₀
4	78.00 ^{+0.3} ₀	54.96	63.50 ^{+0.13} ₀



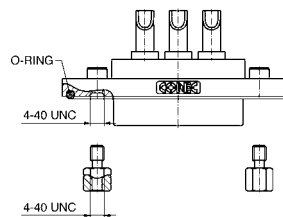
Shellsize 1-4



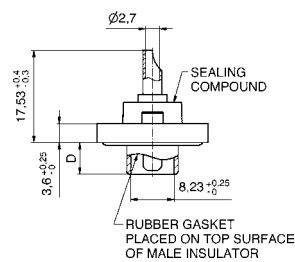
PLUG CONNECTOR



Shellsize	A	B1	C	D
1	39.40 ^{+0.3} ₀	16.81 ^{+0.23} _{-0.02}	25.00 ^{+0.12} _{-0.13}	6.00 ^{+0.12} _{-0.18}
2	47.70 ^{+0.3} ₀	25.14 ^{+0.23} _{-0.02}	33.32 ^{+0.13} _{-0.12}	6.00 ^{+0.12} _{-0.18}
3	61.40 ^{+0.3} ₀	38.86 ^{+0.23} _{-0.02}	47.04 ^{+0.13} ₀	5.99 ^{+0.3} ₀
4	78.00 ^{+0.3} ₀	55.32 ^{+0.23} _{-0.02}	63.50 ^{+0.13} ₀	5.99 ^{+0.3} ₀



Shellsize 1-4



ORDER DATA

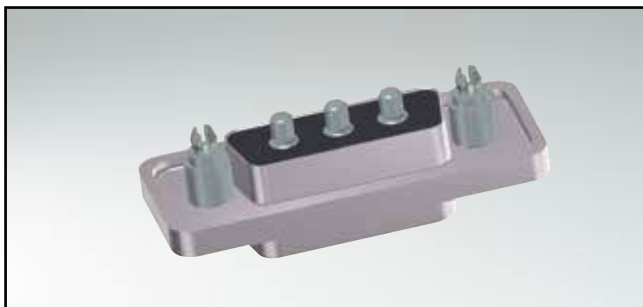
SOCKET CONNECTOR			
Design	Mounting style 4-40 UNC	Power contact	Part number
2W2C	Threaded insert	High power 20A	15-001063
3W3C	Threaded insert	High power 20A	15-001073
3W3	Threaded insert	High power 20A	15-001083
5W5	Threaded insert	High power 20A	15-001093
8W8	Threaded insert	High power 20A	15-001613

Design			
Bauform	Mounting style 4-40 UNC	Power contact	Part number
3W3C	Threaded insert	High power 20A	15-001113
3W3	Threaded insert	High power 20A	15-001123
5W5	Threaded insert	High power 20A	15-001133
8W8	Threaded insert	High power 20A	15-001653

Other high power or coaxial contacts on request.

IP67 COMBINATION D-SUB SOLID BODY

Solder pin – Straight – Precision machined contacts

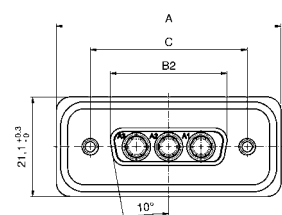


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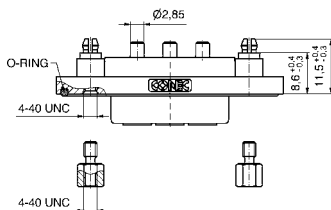
DESCRIPTION

- High power contacts 20A
- Mounting style:
4-40 UNC threaded rear spacer with PCB clip
- Quality class 3 (also available in quality class 1)
- One-piece zinc die-cast nickel plated shell
- IP67 for harsh environments, pressure-proof up to 1.45 PSI
- Stainless steel hex bolts are supplied loose

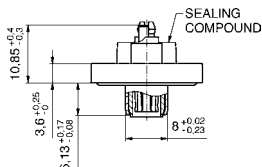
SOCKET CONNECTOR



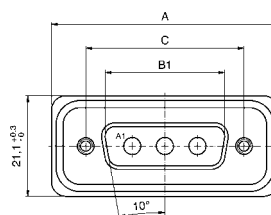
Shellsize	A	B2 ±0.25	C
1	39.40 ^{+0.3} ₀	16.46	25.00 ^{+0.12} _{-0.13}
2	47.70 ^{+0.3} ₀	24.79	33.32 ^{+0.13} _{-0.12}
3	61.40 ^{+0.3} ₀	38.50	47.04 ^{+0.13}
4	78.00 ^{+0.3} ₀	54.96	63.50 ^{+0.13}



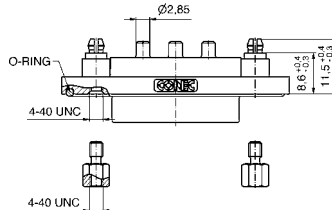
Shellsize 1-4



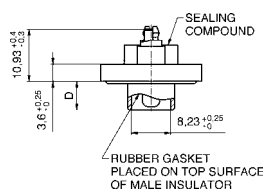
PLUG CONNECTOR



Shellsize	A	B1	C	D
1	39.40 ^{+0.3} ₀	16.81 ^{+0.23} _{-0.02}	25.00 ^{+0.12} _{-0.13}	6.00 ^{+0.12} _{-0.18}
2	47.70 ^{+0.3} ₀	25.14 ^{+0.23} _{-0.02}	33.32 ^{+0.13} _{-0.12}	6.00 ^{+0.12} _{-0.18}
3	61.40 ^{+0.3} ₀	38.86 ^{+0.23} _{-0.02}	47.04 ^{+0.13}	5.99 ^{+0.3}
4	78.00 ^{+0.3} ₀	55.32 ^{+0.23} _{-0.02}	63.50 ^{+0.13}	5.99 ^{+0.3}



Shellsize 1-4



ORDER DATA

SOCKET CONNECTOR			
Design	Mounting style 4-40 UNC	Power contact	Part number
2W2C	Threaded rear spacer PCB clip	High power 20A	15-001783
3W3C	Threaded rear spacer PCB clip	High power 20A	15-001793
3W3	Threaded rear spacer PCB clip	High power 20A	15-001803
5W5	Threaded rear spacer PCB clip	High power 20A	15-001813
8W8	Threaded rear spacer PCB clip	High power 20A	15-002023

PLUG CONNECTOR			
Design	Mounting style 4-40 UNC	Power contact	Part number
3W3C	Threaded rear spacer PCB clip	High power 20A	15-005883
3W3	Threaded rear spacer PCB clip	High power 20A	15-001843
5W5	Threaded rear spacer PCB clip	High power 20A	15-001853
8W8	Threaded rear spacer PCB clip	High power 20A	15-001833

Other high power or coaxial contacts on request.

IP67 COMBINATION D-SUB SOLID BODY

Solder pin – Angled – Precision machined contacts – Metal bracket

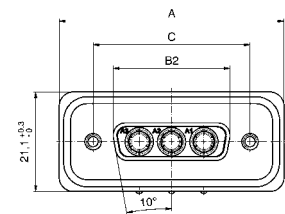


RoHS compliant – UL listed, File No.: E202784

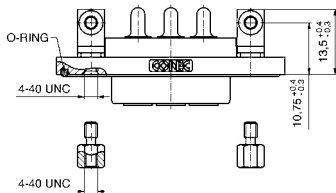
DESCRIPTION

- High power contacts 20A
- Mounting style:
mounting bracket, 4-40 UNC PCB clip
- Quality class 3 (Also available in quality class 1)
- One-piece zinc die-cast nickel plated shell
- IP67 for harsh environments, pressure-proof up to 1.45 PSI
- Stainless steel hex bolts are supplied loose

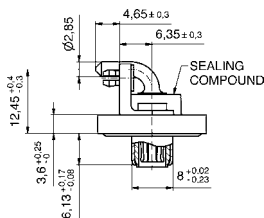
SOCKET CONNECTOR



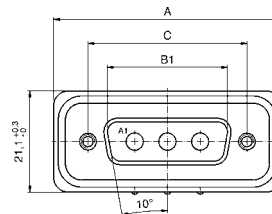
Shellsize	A	B2 ±0.25	C
1	39.40 ^{+0.3} ₀	16.46	25.00 ^{+0.12} _{-0.13}
2	47.70 ^{+0.3} ₀	24.79	33.32 ^{+0.13} _{-0.12}
3	61.40 ^{+0.3} ₀	38.50	47.04 ±0.13
4	78.00 ^{+0.3} ₀	54.96	63.50 ±0.13



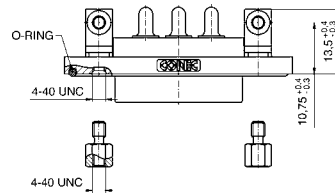
Shellsize 1-4



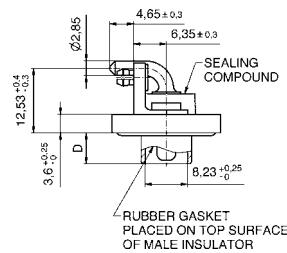
PLUG CONNECTOR



Shellsize	A	B1	C	D
1	39.40 ^{+0.3} ₀	16.81 ^{+0.23} _{-0.02}	25.00 ^{+0.12} _{-0.13}	6.00 ^{+0.12} _{-0.18}
2	47.70 ^{+0.3} ₀	25.14 ^{+0.23} _{-0.02}	33.32 ^{+0.13} _{-0.12}	6.00 ^{+0.12} _{-0.18}
3	61.40 ^{+0.3} ₀	38.86 ^{+0.23} _{-0.02}	47.04 ±0.13	5.99 ±0.3
4	78.00 ^{+0.3} ₀	55.32 ^{+0.23} _{-0.02}	63.50 ±0.13	5.99 ±0.3



Shellsize 1-4



ORDER DATA

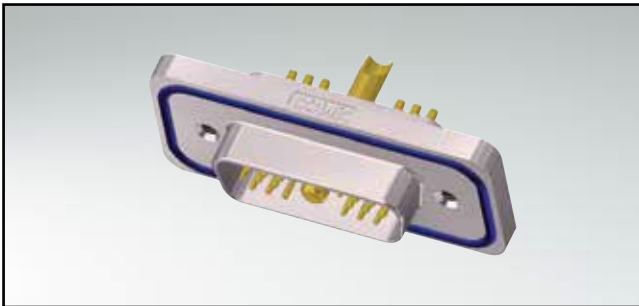
SOCKET CONNECTOR			
Design	Mounting style 4-40 UNC	Power contact	Part number
2W2C	Mounting bracket PCB clip	High power 20A	15-001423
3W3C	Mounting bracket PCB clip	High power 20A	15-001433
3W3	Mounting bracket PCB clip	High power 20A	15-001443
5W5	Mounting bracket PCB clip	High power 20A	15-001453
8W8	Mounting bracket PCB clip	High power 20A	15-001963

PLUG CONNECTOR			
Design	Mounting style 4-40 UNC	Power contact	Part number
3W3C	Mounting bracket PCB clip	High power 20A	15-001473
3W3	Mounting bracket PCB clip	High power 20A	15-001483
5W5	Mounting bracket PCB clip	High power 20A	15-001493
8W8	Mounting bracket PCB clip	High power 20A	15-001993

Other high power or coaxial contacts on request.

IP67 COMBINATION HD-SUB SOLID BODY

Solder cup – Precision machined contacts – For wire size AWG 22 and AWG 12 - 14

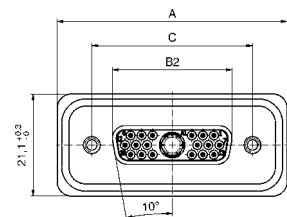


RoHS compliant

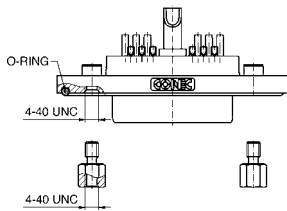
DESCRIPTION

- Signal contacts for wire size AWG 22
- High power contacts 20A for cable AWG 12 - 14
- Mounting style:
with 4-40 UNC threaded insert
- Quality class 3 (Also available in quality class 1)
- One-piece zinc die-cast nickel plated shell
- IP67 for harsh environments, pressure-proof up to 1.45 PSI
- Stainless steel hex bolts are supplied loose

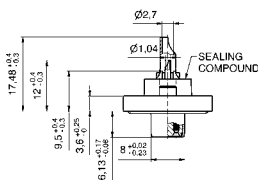
SOCKET CONNECTOR



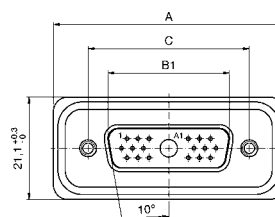
Shellsize	A	B2 ±0.25	C
2	47.70 ^{+0.3} ₀	24.79	33.32 ^{+0.13} _{-0.12}
3	61.40 ^{+0.3} ₀	38.50	47.04 ^{+0.13}
4	78.00 ^{+0.3} ₀	54.96	63.50 ^{+0.13}



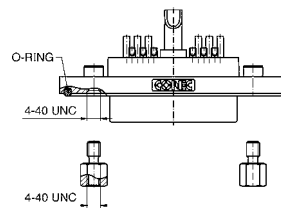
Shellsize 2-4



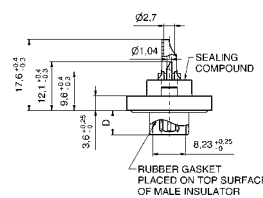
PLUG CONNECTOR



Shellsize	A	B1	C	D
2	47.70 ^{+0.3} ₀	25.14 ^{+0.23} _{-0.02}	33.32 ^{+0.13} _{-0.12}	6.00 ^{+0.12} _{-0.18}
3	61.40 ^{+0.3} ₀	38.86 ^{+0.23} _{-0.02}	47.04 ^{+0.13}	5.99 ^{-0.3}
4	78.00 ^{+0.3} ₀	55.32 ^{+0.23} _{-0.02}	63.50 ^{+0.13}	5.99 ^{-0.3}



Shellsize 2-4



ORDER DATA

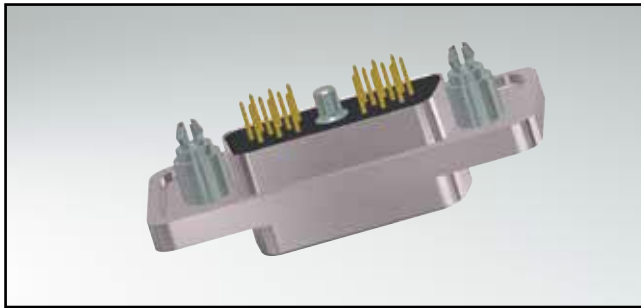
SOCKET CONNECTOR			
Design	Mounting style 4-40 UNC	Power contact	Part number
15W4	Threaded insert	High power 20A	15-005893
19W1	Threaded insert	High power 20A	15-005903
45W2	Threaded insert	High power 20A	15-005913

PLUG CONNECTOR			
Design	Mounting style 4-40 UNC	Power contact	Part number
15W4	Threaded insert	High power 20A	15-005923
19W1	Threaded insert	High power 20A	15-005933
45W2	Threaded insert	High power 20A	15-005943

Other high power or coaxial contacts on request.

IP67 COMBINATION HD-SUB SOLID BODY

Solder pin – Straight – Precision machined contacts

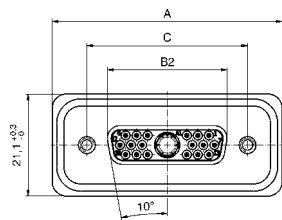


RoHS compliant

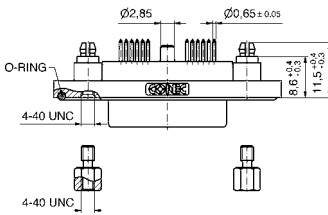
DESCRIPTION

- High power contacts 20A
- Mounting style:
4-40 UNC threaded rear spacer with PCB clip
- Quality class 3 (Also available in quality class 1)
- One-piece zinc die-cast nickel plated shell
- IP67 for harsh environments, pressure-proof up to 1.45 PSI
- Stainless steel hex bolts are supplied loose

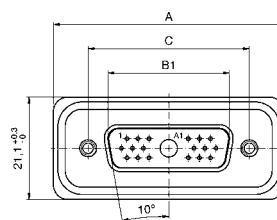
SOCKET CONNECTOR



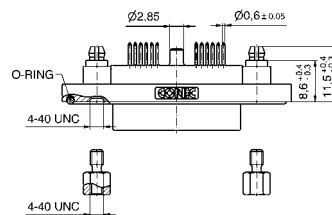
Shellsize	A	B2 -0.25	C
2	47.70 ^{+0.3} ₀	24.79	33.32 ^{+0.13} _{-0.12}
3	61.40 ^{+0.3} ₀	38.50	47.04 ^{+0.13} _{±0.13}
4	78.00 ^{+0.3} ₀	54.96	63.50 ^{+0.13} _{±0.13}



PLUG CONNECTOR

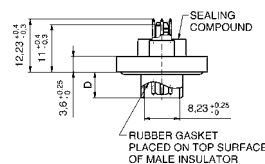
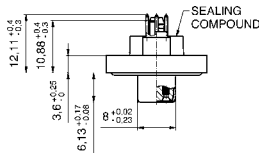


Shellsize	A	B1	C	D
2	47.70 ^{+0.3} ₀	25.14 ^{+0.23} _{-0.02}	33.32 ^{+0.13} _{-0.12}	6.00 ^{+0.12} _{-0.18}
3	61.40 ^{+0.3} ₀	38.86 ^{+0.23} _{-0.02}	47.04 ^{+0.13} _{±0.13}	5.99 ^{+0.3} _{±0.3}
4	78.00 ^{+0.3} ₀	55.32 ^{+0.23} _{-0.02}	63.50 ^{+0.13} _{±0.13}	5.99 ^{+0.3} _{±0.3}



Shellsize 2-4

Shellsize 2-4



ORDER DATA

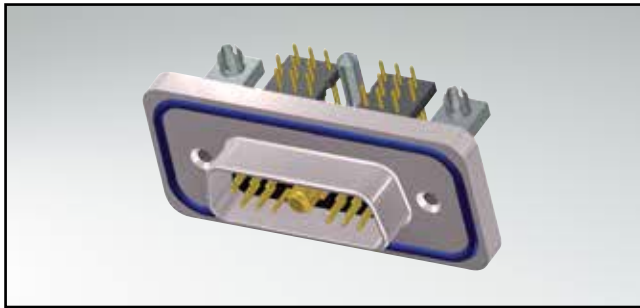
SOCKET CONNECTOR			
Design	Mounting style 4-40 UNC	Power contact	Part number
15W4	Threaded rear spacer PCB clip	High power 20A	15-005953
19W1	Threaded rear spacer PCB clip	High power 20A	15-005963
45W2	Threaded rear spacer PCB clip	High power 20A	15-005973

PLUG CONNECTOR			
Design	Mounting style 4-40 UNC	Power contact	Part number
15W4	Threaded rear spacer PCB clip	High power 20A	15-005983
19W1	Threaded rear spacer PCB clip	High power 20A	15-005993
45W2	Threaded rear spacer PCB clip	High power 20A	15-006003

Other high power or coaxial contacts on request.

IP67 COMBINATION HD-SUB SOLID BODY

Solder pin – Angled – Precision machined contacts – Metal bracket

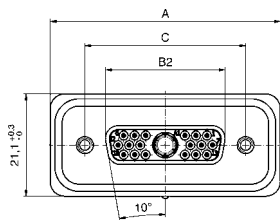


RoHS compliant

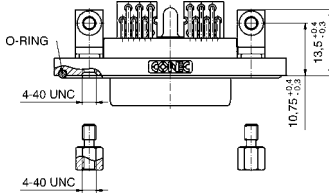
DESCRIPTION

- High power contacts 20A
- Mounting style:
mounting bracket, 4-40 UNC PCB clip
- Quality class 3 (Also available in quality class 1)
- One-piece zinc die-cast nickel plated shell
- IP67 for harsh environments, pressure-proof up to 1.45 PSI
- Stainless steel hex bolts are supplied loose

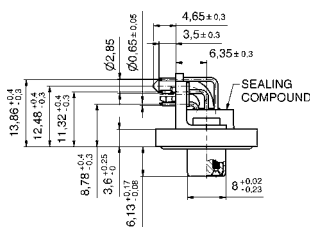
SOCKET CONNECTOR



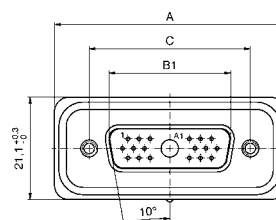
Shellsize	A	B2 ±0.25	C
2	47.70 ^{+0.3} ₀	24.79	33.32 ^{+0.13} _{-0.12}
3	61.40 ^{+0.3} ₀	38.50	47.04 ^{+0.13} ₀
4	78.00 ^{+0.3} ₀	54.96	63.50 ^{+0.13} ₀



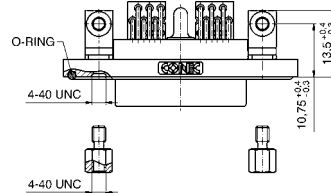
Shellsize 2-4



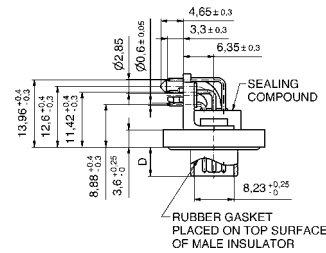
PLUG CONNECTOR



Shellsize	A	B1	C	D
2	47.70 ^{+0.3} ₀	25.14 ^{+0.23} _{-0.02}	33.32 ^{+0.13} _{-0.12}	6.00 ^{+0.12} _{-0.18}
3	61.40 ^{+0.3} ₀	38.86 ^{+0.23} _{-0.02}	47.04 ^{+0.13} ₀	5.99 ^{-0.3} ₀
4	78.00 ^{+0.3} ₀	55.32 ^{+0.23} _{-0.02}	63.50 ^{+0.13} ₀	5.99 ^{-0.3} ₀



Shellsize 2-4



ORDER DATA

SOCKET CONNECTOR			
Design	Mounting style 4-40 UNC	Power contact	Part number
15W4	Mounting bracket PCB clip	High power 20A	15-006013
19W1	Mounting bracket PCB clip	High power 20A	15-006023
45W2	Mounting bracket PCB clip	High power 20A	15-006033

PLUG CONNECTOR			
Design	Mounting style 4-40 UNC	Power contact	Part number
15W4	Mounting bracket PCB clip	High power 20A	15-006043
19W1	Mounting bracket PCB clip	High power 20A	15-006053
45W2	Mounting bracket PCB clip	High power 20A	15-006063

Other high power or coaxial contacts on request.

COMBINATION D-SUB CONTACTS

High power contacts – Solder cup – Screw/Crimp version



RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

DESCRIPTION

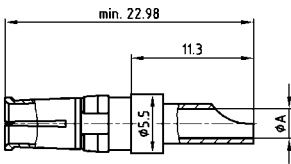
- Precision machined contacts
- Quality class 3: 50 mating cycles
- Quality class 1: 500 mating cycles
- Premating contacts available on request
- Solder area tin plated available on request

Note:

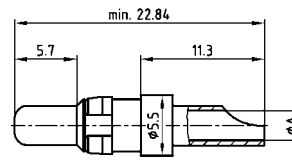
Contacts shown on this page, are for the Selection and Coding of your part number, using the Part Number Constructor on page 9|2.

PRODUCT DRAWING

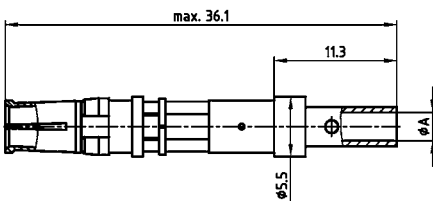
Socket contact/Solder cup



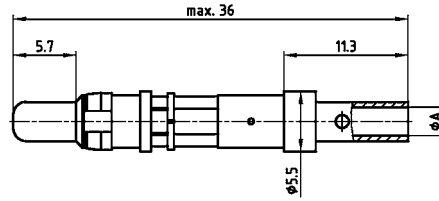
Plug contact/Solder cup



Socket contact/Screw crimp

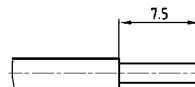


Plug contact/Screw crimp



AWG	Current rating	ØA+0.15
16-20	10A	1.80
12-14	20A	2.70
10-12	30A	3.50
8-10	40A	4.80

Wire stripping



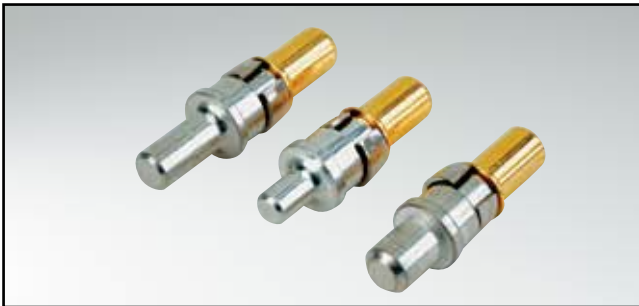
ORDER DATA

HIGH POWER CONTACT SOLDER CUP		Quality class 3	Quality class 1
Wire size	Current rating	Code	Code
AWG 16...20	10 A	61	41
AWG 12...14	20 A	62	42
AWG 10...12	30 A	63 (only for solid body)	43
AWG 8...10	40 A	64 (only for solid body)	44

HIGH POWER CONTACT SCREW CRIMP		Quality class 3	Quality class 1
Wire size	Current rating	Code	Code
AWG 16...20	10 A	On request	R1
AWG 12...14	20 A	On request	R2
AWG 10...12	30 A	On request	R3
AWG 8...10	40 A	On request	R4

COMBINATION D-SUB CONTACTS

High power contacts – Solder pin – Straight



RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

DESCRIPTION

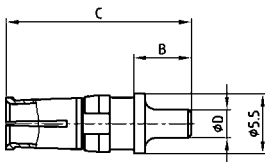
- Precision machined contacts
- Quality class 3: 50 mating cycles (gold plated)
- Quality class 1: 500 mating cycles (gold plated)
- Premating contacts available on request

Note:

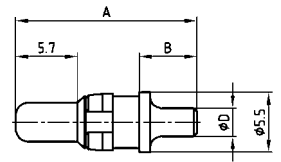
Contacts shown on this page, are for the Selection and Coding of your part number, using the Part Number Constructor on page 9|2.

PRODUCT DRAWING

Socket contact



Plug contact



Current rating	Termination	A	B	C	Ø D
20A	48/68	15.84	4.60	15.98	1.95
20A	49/69	16.84	5.30	16.98	2.60
20A	50/70	16.24	4.70	16.38	2.85
30A	51/71	19.04	7.50	19.18	3.18
40A	52/72	17.29	5.75	17.43	3.75

ORDER DATA

HIGH POWER CONTACT		Quality class 3	Quality class 1
Solder tail diameter D	Current rating	Code	Code
.077" / 1.95 mm	20A	68	48
.102" / 2.60 mm	20A	69	49
.112" / 2.85 mm	20A	70	50
.125" / 3.18 mm	30A	71	51
.148" / 3.75 mm	40A	72	52

Please select code to create a new part number.

COMBINATION D-SUB CONTACTS

High power contacts – Solder pin – angled



RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

DESCRIPTION

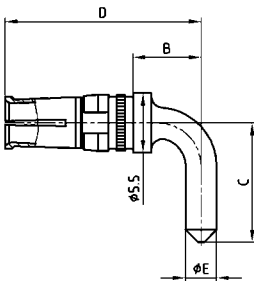
- Precision machined contacts
- Quality class 3: .008 μ" / 0.2 μm Au in contact area
- Quality class 1: .032 μ" / 0.8 μm Au in contact area
- Premating contacts available on request

Note:

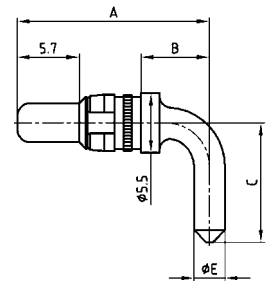
Contacts shown on this page, are for the Selection and Coding of your part number, using the Part Number Constructor on page 9|2.

PRODUCT DRAWING

Socket contact



Plug contact



Shellsize	Current rating	Termination	A	B	C	D	Ø E
1-4	15A	55/59	14.54	3.00	10.50	14.68	1.90
1-4	20A	56/73	17.84	6.30	11.00	17.98	2.85
1-4	30A	57/74	26.54	15.00	9.50	26.68	3.20
1-4	40A	58/75	17.84	6.30	11.00	17.98	3.75
5	20A	66/81	20.39	8.85	14.00	20.53	2.85
5	30A	67/82	20.39	8.85	14.00	20.53	3.20
5	30A	65/85	26.54	15.00	13.50	26.68	3.20
5	40A	60/77	20.39	8.85	14.00	20.53	3.75

ORDER DATA

HIGH POWER CONTACT		Quality class 3	Quality class 1
Shellsize	Current rating	Code	Code
1-4	15 A	59	55
1-4	20 A	73	56
1-4	30 A	74	57
1-4	40 A	75	58
5	20 A	81	66
5	30 A	82	67
5	30 A	85	65
5	40 A	77	60

Please select code to create a new part number.

COMBINATION D-SUB CONTACTS

Coaxial contacts – Straight – Inner and outer conductor for solder connection



RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

DESCRIPTION

- 50 and 75 Ω design
- Contact plating:
 - .008 μ"/0.2 μm Au plating mating side inner- and outer conductor (Quality class 3)
 - other quality classes on request
- IP67 protection only in mated condition in conjunction with water resistant housing from CONEC

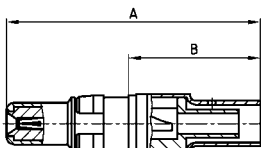
Note:

Contacts shown on this page, are for the Selection and Coding of your part number, using the Part Number Constructor on page 9|2.

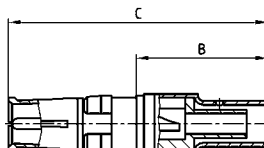
PRODUCT DRAWING

50 Ω version

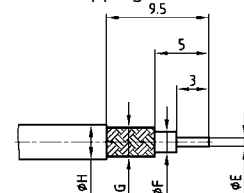
Plug contact



Socket contact



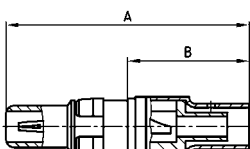
Wire stripping



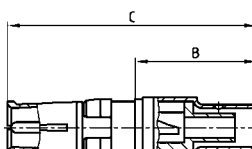
Usable Cables RG	A	B	C	Ø E max.	Ø F max.	Ø G max.	Ø H max.
178BU, 196AU, 404U	22.50	11.20	23.00	0.85	1.20	1.40	2.30
174U, 188AU, 316U	22.50	11.20	23.00	0.85	1.90	2.30	3.20
180BU	22.50	11.20	23.00	0.85	2.80	3.10	4.50
58CU, 141AU	26.30	14.80	26.80	1.00	3.00	3.60	5.20
316U double braided	23.50	12.20	24.00	0.85	1.90	2.70	3.20

75 Ω version

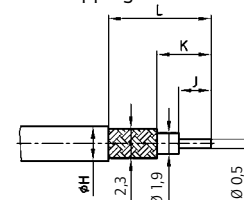
Plug contact



Socket contact



Wire stripping



Usable Cables RG	A	B	C	Ø H max.	J	K	L
179BU, 187AU	18.55	7.30	19.05	2.30	2.00	3.10	6.00
179BU, 187AU	22.50	11.20	23.00	3.20	3.20	5.00	9.50

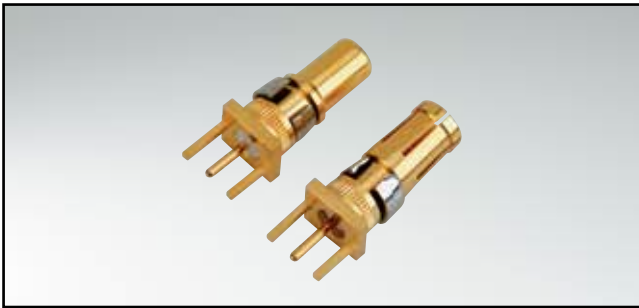
ORDER DATA

COAXIAL CONTACT		Quality class 1	Quality class 3
Usable cable	Characteristic impedance	Code	Code
178BU, 196AU, 404U	50 Ω	H6	G2
174U, 188AU, 316U	50 Ω	H7	G3
180BU	50 Ω	H8	G4
58CU, 141AU	50 Ω	H9	G5
316U double braided	50 Ω	K1	G6
179BU, 187AU (B= .290" / 7.3 mm)	75 Ω	H4	F9
179BU, 187AU (B= .441" / 11.2 mm)	75 Ω	H5	G1

Please select code to create a new part number.

COMBINATION D-SUB CONTACTS

Coaxial contacts – Straight – PCB termination – 3 solder pins



RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

DESCRIPTION

- 50 and 75 Ω design
- Contact plating:
 - .051 μ" / 1.3 μm Au plating mating side inner conductor / .032 μ" / 0.8 μm Au outer conductor (Quality class 1)
 - .008 μ" / 0.2 μm Au plating mating side inner- and outer conductor (Quality class 3)
- IP67 protection only in mated condition in conjunction with water resistant housing from CONEC

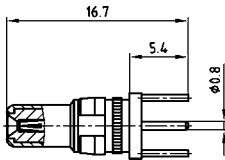
Note:

Contacts shown on this page, are for the Selection and Coding of your part number, using the Part Number Constructor on page 9 | 2.

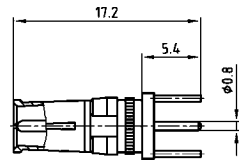
PRODUCT DRAWING

50 Ω version

Plug contact

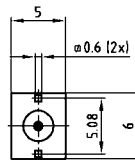
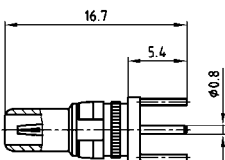


Socket contact

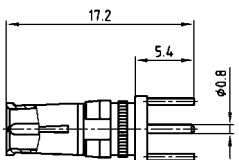


75 Ω version

Plug contact



Socket contact



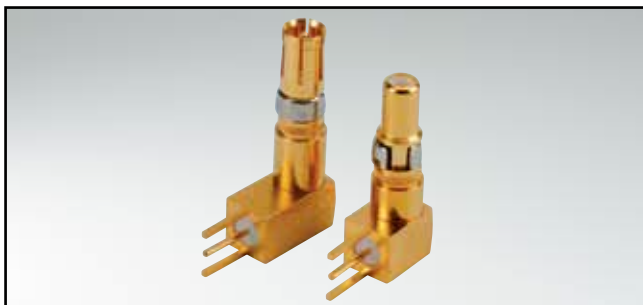
ORDER DATA

COAXIAL CONTACT		Quality class 1		Quality class 3	
Shellsize	Characteristic impedance	Code		Code	
1-5	50 Ω	76		G7	
1-5	75 Ω	86		G8	

Please select code to create a new part number.

COMBINATION D-SUB CONTACTS

Coaxial contacts – Angled – PCB termination – 3 solder pins



RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E202784

DESCRIPTION

- 50 and 75 Ω design
- Contact plating:
 - .051 μ" / 1.3 μm Au plating mating side inner conductor / .032 μ" / 0.8 μm Au outer conductor (Quality class 1)
 - .008 μ" / 0.2 μm Au plating mating side inner- and outer conductor (Quality class 3)
- IP67 protection only in mated condition in conjunction with water resistant shells from CONEC

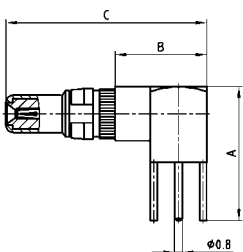
Note:

Contacts shown on this page, are for the Selection and Coding of your part number, using the Part Number Constructor on page 9 | 2.

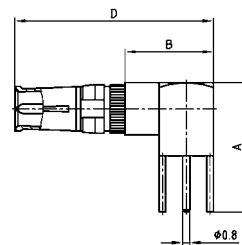
PRODUCT DRAWING

50 Ω version

Plug contact

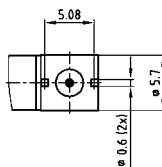
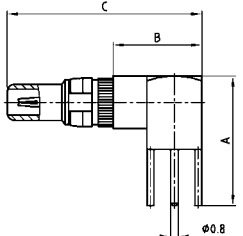


Socket contact

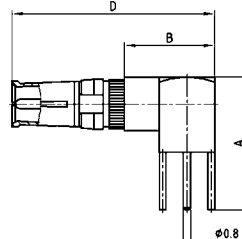


75 Ω version

Plug contact



Socket contact



Shellsize	A	B	C	D	E	F
1-4	13.80	9.30	20.70	21.20	11.00	9.30
5	16.80	11.80	23.20	23.70	14.00	11.80

ORDER DATA

COAXIAL CONTACT		Quality class 1		Quality class 3	
Shellsize	Characteristic impedance	Code		Code	
1-4	50 Ω	78		G9	
5	50 Ω	79		H1	
1-4	75 Ω	88		H2	
5	75 Ω	89		H3	

Please select code to create a new part number.

SECTION 10

IP67 FILTER D-SUB CONNECTORS

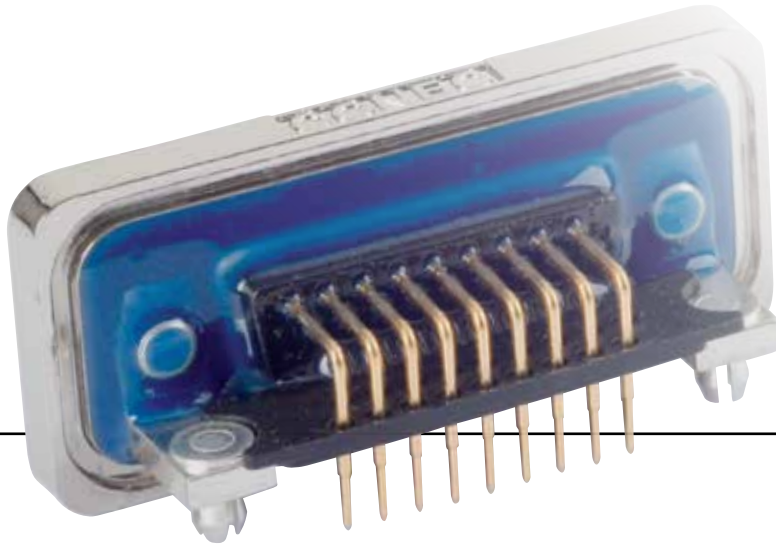
Many applications in harsh, industrial environments place additional demands on the interface.

The filtered, water resistant connector system developed by CONEC is well suited for applications that require increased EMC protection under ambient conditions where there is risk of dust and moisture.

The system includes D-Subminiature Connectors in standard and high-density designs.

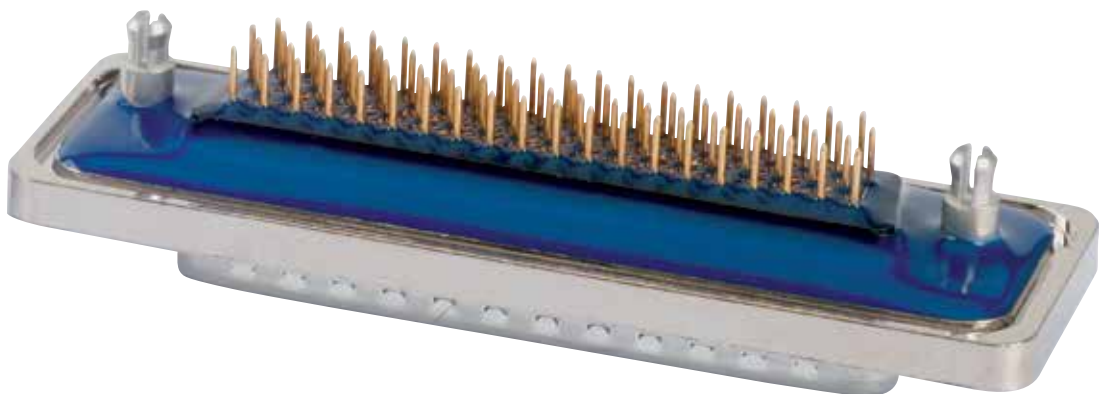
This connector system designed to IEC 60529 with an IP67 rating. In order to ensure these requirements are met, special sealing measures have been taken for these connectors and their sealing frames. Special water resistant accessories and protective caps supplement the product line.





System details:

- Plastic or metal frame with O-ring for sealing
- Seal in the connector plug- water cannot penetrate into the housing
- Available for front side or rear side panel of the enclosure
- Connector without frame for cable housing
- Special threaded parts, 4-40 UNC and M 3
- Plastic materials comply with UL 94 V0
- Machined precision contacts for heavy duty usage
- Various gold plating options available
- All conventional contact termination types available
- Special accessories, e.g. water resistant hoods and sealing caps



PART NUMBER CREATOR

6 S T F O 9 P A M O 4 B 3 O X

Product Line

- 4* = Shell brass tin plated with plastic frame or without frame
- 6 = Shell brass tin plated with metal frame (Standard)
(*on request)

Variations

- STF = D-Subminiatur Standard filtered
- HDF = D-Subminiatur High Density filtered

No. of pos. for STF No. of pos. for HDF

- | | |
|--------------|--------------|
| 09 = 09 pos. | 15 = 15 pos. |
| 15 = 15 pos. | 26 = 26 pos. |
| 25 = 25 pos. | 44 = 44 pos. |
| 37 = 37 pos. | 62 = 62 pos. |
| 50 = 50 pos. | 78 = 78 pos. |

- P = Plug connector (Standard)
(Socket connector on request)

Quality class / Plating code for contacts

- A = Quality class 3 = 50 mating cycles
- B = Quality class 2 = 200 mating cycles
- C = Quality class 1 = 500 mating cycles

Termination

- M = Solder cup only for STF
- R = Solder pin, straight
- T = Solder pin, angled, .189" / 4.80 mm only for STF
- U = Solder pin, angled, .276" / 7.00 mm only for STF
- Z = Solder pin, angled, .465" / 11.80 mm only for STF
- Y = Solder pin, angled, .220" / 5.60 mm only for HDF

Capacitance

- 01 = 180 pF ± 20% tolerance
- 03 = 370 pF ± 20% tolerance
- 04 = 830 pF ± 20% tolerance
- 05* = 1300 pF ± 20% tolerance *not applicable for HDF

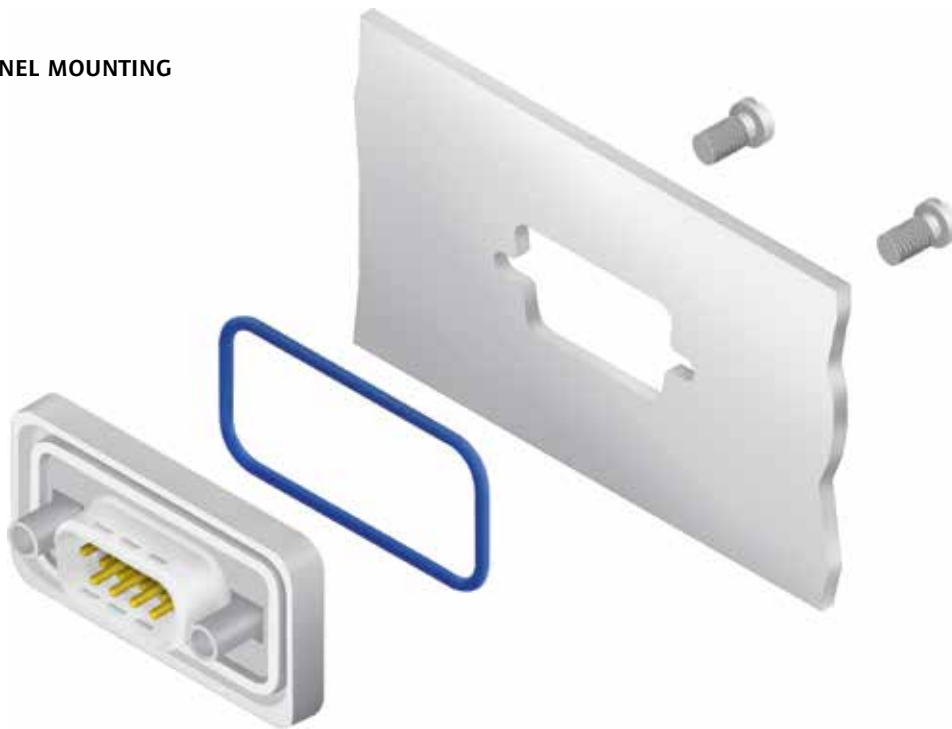
Mounting style

- A1 = Riveted through hole for cable mount / Shell without sealing frame
- B2 = M3 threaded insert
- B3 = 4-40 UNC threaded insert
- B4 = Threaded lock for M3 front mounting
- B5 = Threaded lock for 4-40 UNC front mounting
- E1 = M3 threaded rear spacer with PCB clip, PCB .063" / 1.60 mm
- E2 = 4-40 UNC threaded rear spacer with PCB clip, PCB .063" / 1.60 mm
- S1 = Metal bracket, M3 threaded insert
- S2 = Metal bracket, 4-40 UNC threaded insert
- S3 = Metal bracket, M3 threaded insert and PCB clip
- S4 = Metal bracket, 4-40 UNC threaded insert and PCB clip
- R1 = Metal bracket, M3 threaded insert
- R2 = Metal bracket, 4-40 UNC threaded insert
- R3 = Metal bracket, M3 threaded insert and PCB clip
- R4 = Metal bracket, 4-40 UNC threaded insert and PCB clip

- OX = Standard

PANEL CUT-OUT

FRONT PANEL MOUNTING



REAR PANEL MOUNTING



The hex bolts illustrated here (4-40 UNC or M3 threads) are included in the delivery complement of every connector with a sealing frame. The length of this spacer has been selected to accommodate a panel thickness of .063"/1.6 mm such that it does not extend beyond the plug-in height. Furthermore, the hex bolts outside threads are shorter than standard hex bolts. Material: stainless steel.

IP67 C-FILTER D-SUB STANDARD

Plug connector – Solder cup – Precision machined contacts – For wire size AWG 26

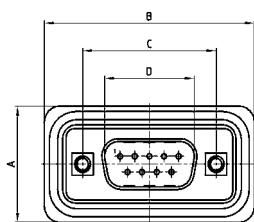


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E 202784

DESCRIPTION

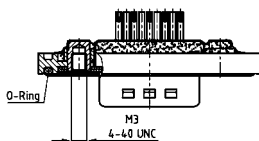
- Suitable for wire size AWG 26 (AWG 20 available on request)
- Mounting style:
with 4-40 UNC or M3 threaded insert
- Quality class 3 (also available in quality class 1)
- Shell: brass tin plated
- Nickel plated die-cast frame
(Black plastic frame on request)

PRODUCT DRAWING

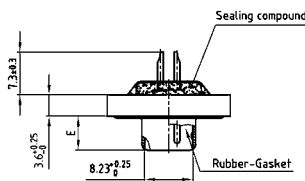


No. of pos.	A +0.30	B +0.30	C	D +0.25	E -0.30
09	21.10	39.40	25.00 ^{+0.12} _{-0.13}	16.79	5.82
15	21.10	47.70	33.30 ^{+0.15} _{-0.10}	25.12	5.82
25	21.10	61.40	47.04 ^{+0.13}	38.84	5.69
37	21.10	77.90	63.50 ^{+0.13}	55.30	5.69
50	23.90	75.50	61.10 ^{+0.14} _{-0.11}	52.68	5.69

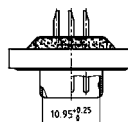
Mounting style: Threaded insert



9-37 pos.



50 pos.



ORDER DATA

Capacitance 180 pF

PLUG CONNECTOR

No. of pos.	Mounting style M3	Part Number
09	Threaded insert	6STF09PAM01B20X
15	Threaded insert	6STF15PAM01B20X
25	Threaded insert	6STF25PAM01B20X
37	Threaded insert	6STF37PAM01B20X
50	Threaded insert	6STF50PAM01B20X

PLUG CONNECTOR

No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded insert	6STF09PAM01B30X
15	Threaded insert	6STF15PAM01B30X
25	Threaded insert	6STF25PAM01B30X
37	Threaded insert	6STF37PAM01B30X
50	Threaded insert	6STF50PAM01B30X

IP67 C-FILTER D-SUB STANDARD

Plug connector – Solder cup – Precision machined contacts – For wire size AWG 26

ORDER DATA

Capacitance 370 pF

PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style M3	Part Number	No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded insert	6STF09PAM03B20X	09	Threaded insert	6STF09PAM03B30X
15	Threaded insert	6STF15PAM03B20X	15	Threaded insert	6STF15PAM03B30X
25	Threaded insert	6STF25PAM03B20X	25	Threaded insert	6STF25PAM03B30X
37	Threaded insert	6STF37PAM03B20X	37	Threaded insert	6STF37PAM03B30X
50	Threaded insert	6STF50PAM03B20X	50	Threaded insert	6STF50PAM03B30X

Capacitance 830 pF

PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style M3	Part Number	No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded insert	6STF09PAM04B20X	09	Threaded insert	6STF09PAM04B30X
15	Threaded insert	6STF15PAM04B20X	15	Threaded insert	6STF15PAM04B30X
25	Threaded insert	6STF25PAM04B20X	25	Threaded insert	6STF25PAM04B30X
37	Threaded insert	6STF37PAM04B20X	37	Threaded insert	6STF37PAM04B30X
50	Threaded insert	6STF50PAM04B20X	50	Threaded insert	6STF50PAM04B30X

Capacitance 1300 pF

PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style M3	Part Number	No. of pos.	Mounting style 4-40 UNC	Part Number
09	Threaded insert	6STF09PAM05B20X	09	Threaded insert	6STF09PAM05B30X
15	Threaded insert	6STF15PAM05B20X	15	Threaded insert	6STF15PAM05B30X
25	Threaded insert	6STF25PAM05B20X	25	Threaded insert	6STF25PAM05B30X
37	Threaded insert	6STF37PAM05B20X	37	Threaded insert	6STF37PAM05B30X
50	Threaded insert	6STF50PAM05B20X	50	Threaded insert	6STF50PAM05B30X

IP67 C-FILTER D-SUB STANDARD

Plug connector – Solder pin – Straight – Precision machined contacts

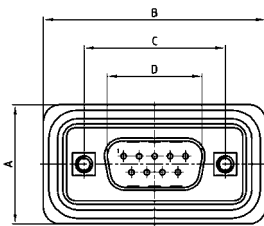


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E 202784

DESCRIPTION

- Mounting styles:
 - with 4-40 UNC or M3 threaded insert
 - with 4-40 UNC or M3 threaded rear spacer with PCB clip
- Quality class 3 (also available in quality class 1)
- Shell: brass tin plated
- Nickel plated die-cast frame
(Black plastic frame on request)

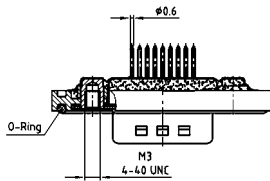
PRODUCT DRAWING



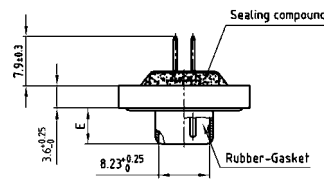
No. of pos.	A +0.30	B +0.30	C	D +0.25	E -0.30
09	21.10	39.40	25.00 ^{+0.12} _{-0.13}	16.79	5.82
15	21.10	47.70	33.30 ^{+0.15} _{-0.10}	25.12	5.82
25	21.10	61.40	47.04 ^{+0.13}	38.84	5.69
37	21.10	77.90	63.50 ^{+0.13}	55.30	5.69
50	23.90	75.50	61.10 ^{+0.14} _{-0.11}	52.68	5.69

PCB-Layout: Kat1kFVA / Kat1kFUA

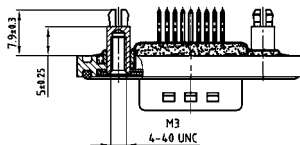
Mounting style: Threaded insert



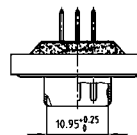
9-37 pos.



Mounting style: Threaded rear spacer with PCB clip



50 pos.



ORDER DATA

Capacitance 180 pF

PLUG CONNECTOR

No. of pos.	Mounting style	Part Number
09	M3 Threaded insert	6STF09PAR01 B20X
15	M3 Threaded insert	6STF15PAR01 B20X
25	M3 Threaded insert	6STF25PAR01 B20X
37	M3 Threaded insert	6STF37PAR01 B20X
50	M3 Threaded insert	6STF50PAR01 B20X
09	4-40 UNC Threaded insert	6STF09PAR01 B30X
15	4-40 UNC Threaded insert	6STF15PAR01 B30X
25	4-40 UNC Threaded insert	6STF25PAR01 B30X
37	4-40 UNC Threaded insert	6STF37PAR01 B30X
50	4-40 UNC Threaded insert	6STF50PAR01 B30X

PLUG CONNECTOR

No. of pos.	Mounting style	Part Number
09	M3 Threaded rear spacer PCB clip	6STF09PAR01 E10X
15	M3 Threaded rear spacer PCB clip	6STF15PAR01 E10X
25	M3 Threaded rear spacer PCB clip	6STF25PAR01 E10X
37	M3 Threaded rear spacer PCB clip	6STF37PAR01 E10X
50	M3 Threaded rear spacer PCB clip	6STF50PAR01 E10X
09	4-40 UNC Threaded rear spacer PCB clip	6STF09PAR01 E20X
15	4-40 UNC Threaded rear spacer PCB clip	6STF15PAR01 E20X
25	4-40 UNC Threaded rear spacer PCB clip	6STF25PAR01 E20X
37	4-40 UNC Threaded rear spacer PCB clip	6STF37PAR01 E20X
50	4-40 UNC Threaded rear spacer PCB clip	6STF50PAR01 E20X

PCB clip .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness

IP67 C-FILTER D-SUB STANDARD

Plug connector – Solder pin – Straight – Precision machined contacts

ORDER DATA

Capacitance 370 pF

PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number	No. of pos.	Mounting style	Part Number
09	M3 Threaded insert	6STF09PAR03B20X	09	M3 Threaded rear spacer PCB clip	6STF09PAR03E10X
15	M3 Threaded insert	6STF15PAR03B20X	15	M3 Threaded rear spacer PCB clip	6STF15PAR03E10X
25	M3 Threaded insert	6STF25PAR03B20X	25	M3 Threaded rear spacer PCB clip	6STF25PAR03E10X
37	M3 Threaded insert	6STF37PAR03B20X	37	M3 Threaded rear spacer PCB clip	6STF37PAR03E10X
50	M3 Threaded insert	6STF50PAR03B20X	50	M3 Threaded rear spacer PCB clip	6STF50PAR03E10X
09	4-40 UNC Threaded insert	6STF09PAR03B30X	09	4-40 UNC Threaded rear spacer PCB clip	6STF09PAR03E20X
15	4-40 UNC Threaded insert	6STF15PAR03B30X	15	4-40 UNC Threaded rear spacer PCB clip	6STF15PAR03E20X
25	4-40 UNC Threaded insert	6STF25PAR03B30X	25	4-40 UNC Threaded rear spacer PCB clip	6STF25PAR03E20X
37	4-40 UNC Threaded insert	6STF37PAR03B30X	37	4-40 UNC Threaded rear spacer PCB clip	6STF37PAR03E20X
50	4-40 UNC Threaded insert	6STF50PAR03B30X	50	4-40 UNC Threaded rear spacer PCB clip	6STF50PAR03E20X

Capacitance 830 pF

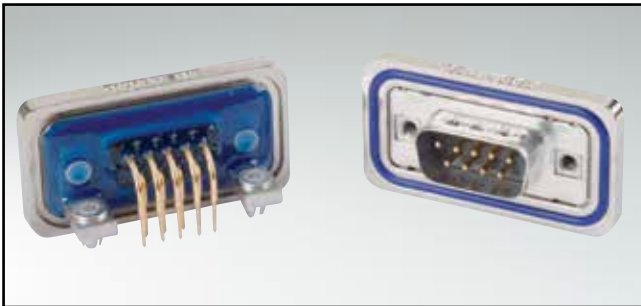
PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number	No. of pos.	Mounting style	Part Number
09	M3 Threaded insert	6STF09PAR04B20X	09	M3 Threaded rear spacer PCB clip	6STF09PAR04E10X
15	M3 Threaded insert	6STF15PAR04B20X	15	M3 Threaded rear spacer PCB clip	6STF15PAR04E10X
25	M3 Threaded insert	6STF25PAR04B20X	25	M3 Threaded rear spacer PCB clip	6STF25PAR04E10X
37	M3 Threaded insert	6STF37PAR04B20X	37	M3 Threaded rear spacer PCB clip	6STF37PAR04E10X
50	M3 Threaded insert	6STF50PAR04B20X	50	M3 Threaded rear spacer PCB clip	6STF50PAR04E10X
09	4-40 UNC Threaded insert	6STF09PAR04B30X	09	4-40 UNC Threaded rear spacer PCB clip	6STF09PAR04E20X
15	4-40 UNC Threaded insert	6STF15PAR04B30X	15	4-40 UNC Threaded rear spacer PCB clip	6STF15PAR04E20X
25	4-40 UNC Threaded insert	6STF25PAR04B30X	25	4-40 UNC Threaded rear spacer PCB clip	6STF25PAR04E20X
37	4-40 UNC Threaded insert	6STF37PAR04B30X	37	4-40 UNC Threaded rear spacer PCB clip	6STF37PAR04E20X
50	4-40 UNC Threaded insert	6STF50PAR04B30X	50	4-40 UNC Threaded rear spacer PCB clip	6STF50PAR04E20X

Capacitance 1300 pF

PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number	No. of pos.	Mounting style	Part Number
09	M3 Threaded insert	6STF09PAR05B20X	09	M3 Threaded rear spacer PCB clip	6STF09PAR05E10X
15	M3 Threaded insert	6STF15PAR05B20X	15	M3 Threaded rear spacer PCB clip	6STF15PAR05E10X
25	M3 Threaded insert	6STF25PAR05B20X	25	M3 Threaded rear spacer PCB clip	6STF25PAR05E10X
37	M3 Threaded insert	6STF37PAR05B20X	37	M3 Threaded rear spacer PCB clip	6STF37PAR05E10X
50	M3 Threaded insert	6STF50PAR05B20X	50	M3 Threaded rear spacer PCB clip	6STF50PAR05E10X
09	4-40 UNC Threaded insert	6STF09PAR05B30X	09	4-40 UNC Threaded rear spacer PCB clip	6STF09PAR05E20X
15	4-40 UNC Threaded insert	6STF15PAR05B30X	15	4-40 UNC Threaded rear spacer PCB clip	6STF15PAR05E20X
25	4-40 UNC Threaded insert	6STF25PAR05B30X	25	4-40 UNC Threaded rear spacer PCB clip	6STF25PAR05E20X
37	4-40 UNC Threaded insert	6STF37PAR05B30X	37	4-40 UNC Threaded rear spacer PCB clip	6STF37PAR05E20X
50	4-40 UNC Threaded insert	6STF50PAR05B30X	50	4-40 UNC Threaded rear spacer PCB clip	6STF50PAR05E20X

IP67 C-FILTER D-SUB STANDARD

Plug connector – Solder pin – Angled – .189" / 4.8 mm –
Precision machined contacts – Metal bracket

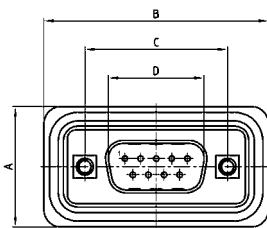


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E 202784

DESCRIPTION

- Mounting styles:
 - with 4-40 UNC or M3 threaded insert
 - with mounting bracket, PCB clip and 4-40 UNC or M3 threaded insert
- Quality class 3 (also available in quality class 1)
- Shell: brass tin plated
- Nickel plated die-cast frame (Black plastic frame on request)

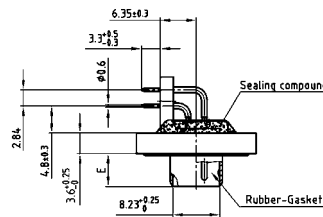
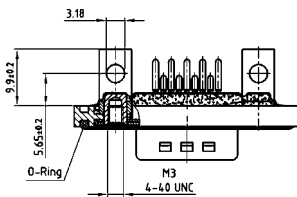
PRODUCT DRAWING



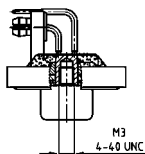
No. of pos.	A +0.30	B +0.30	C	D +0.25	E -0.30
09	21.10	39.40	25.00 ^{+0.12} _{-0.13}	16.79	5.82
15	21.10	47.70	33.30 ^{+0.15} _{-0.10}	25.12	5.82
25	21.10	61.40	47.04 ^{+0.13}	38.84	5.69
37	21.10	77.90	63.50 ^{+0.13}	55.30	5.69

PCB-Layout: Kat1kGSA

Mounting style: Threaded insert



Mounting style: PCB clip, threaded insert



ORDER DATA

Capacitance 180 pF

PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number	No. of pos.	Mounting style	Part Number
09	M3 Threaded insert	6STF09PAT01S10X	09	PCB clip / M3 Threaded insert	6STF09PAT01S30X
15	M3 Threaded insert	6STF15PAT01S10X	15	PCB clip / M3 Threaded insert	6STF15PAT01S30X
25	M3 Threaded insert	6STF25PAT01S10X	25	PCB clip / M3 Threaded insert	6STF25PAT01S30X
37	M3 Threaded insert	6STF37PAT01S10X	37	PCB clip / M3 Threaded insert	6STF37PAT01S30X
09	4-40 UNC Threaded insert	6STF09PAT01S20X	09	PCB clip / 4-40 UNC Threaded insert	6STF09PAT01S40X
15	4-40 UNC Threaded insert	6STF15PAT01S20X	15	PCB clip / 4-40 UNC Threaded insert	6STF15PAT01S40X
25	4-40 UNC Threaded insert	6STF25PAT01S20X	25	PCB clip / 4-40 UNC Threaded insert	6STF25PAT01S40X
37	4-40 UNC Threaded insert	6STF37PAT01S20X	37	PCB clip / 4-40 UNC Threaded insert	6STF37PAT01S40X

PCB clip .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness

IP67 C-FILTER D-SUB STANDARD

Plug connector – Solder pin – Angled – .189" / 4.8 mm –

Precision machined contacts – Metal bracket

ORDER DATA

Capacitance 370 pF

PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number	No. of pos.	Mounting style	Part Number
09	M3 Threaded insert	6STF09PAT03S10X	09	PCB clip / M3 Threaded insert	6STF09PAT03S30X
15	M3 Threaded insert	6STF15PAT03S10X	15	PCB clip / M3 Threaded insert	6STF15PAT03S30X
25	M3 Threaded insert	6STF25PAT03S10X	25	PCB clip / M3 Threaded insert	6STF25PAT03S30X
37	M3 Threaded insert	6STF37PAT03S10X	37	PCB clip / M3 Threaded insert	6STF37PAT03S30X
09	4-40 UNC Threaded insert	6STF09PAT03S20X	09	PCB clip / 4-40 UNC Threaded insert	6STF09PAT03S40X
15	4-40 UNC Threaded insert	6STF15PAT03S20X	15	PCB clip / 4-40 UNC Threaded insert	6STF15PAT03S40X
25	4-40 UNC Threaded insert	6STF25PAT03S20X	25	PCB clip / 4-40 UNC Threaded insert	6STF25PAT03S40X
37	4-40 UNC Threaded insert	6STF37PAT03S20X	37	PCB clip / 4-40 UNC Threaded insert	6STF37PAT03S40X

Capacitance 830 pF

PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number	No. of pos.	Mounting style	Part Number
09	M3 Threaded insert	6STF09PAT04S10X	09	PCB clip / M3 Threaded insert	6STF09PAT04S30X
15	M3 Threaded insert	6STF15PAT04S10X	15	PCB clip / M3 Threaded insert	6STF15PAT04S30X
25	M3 Threaded insert	6STF25PAT04S10X	25	PCB clip / M3 Threaded insert	6STF25PAT04S30X
37	M3 Threaded insert	6STF37PAT04S10X	37	PCB clip / M3 Threaded insert	6STF37PAT04S30X
09	4-40 UNC Threaded insert	6STF09PAT04S20X	09	PCB clip / 4-40 UNC Threaded insert	6STF09PAT04S40X
15	4-40 UNC Threaded insert	6STF15PAT04S20X	15	PCB clip / 4-40 UNC Threaded insert	6STF15PAT04S40X
25	4-40 UNC Threaded insert	6STF25PAT04S20X	25	PCB clip / 4-40 UNC Threaded insert	6STF25PAT04S40X
37	4-40 UNC Threaded insert	6STF37PAT04S20X	37	PCB clip / 4-40 UNC Threaded insert	6STF37PAT04S40X

Capacitance 1300 pF

PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number	No. of pos.	Mounting style	Part Number
09	M3 Threaded insert	6STF09PAT05S10X	09	PCB clip / M3 Threaded insert	6STF09PAT05S30X
15	M3 Threaded insert	6STF15PAT05S10X	15	PCB clip / M3 Threaded insert	6STF15PAT05S30X
25	M3 Threaded insert	6STF25PAT05S10X	25	PCB clip / M3 Threaded insert	6STF25PAT05S30X
37	M3 Threaded insert	6STF37PAT05S10X	37	PCB clip / M3 Threaded insert	6STF37PAT05S30X
09	4-40 UNC Threaded insert	6STF09PAT05S20X	09	PCB clip / 4-40 UNC Threaded insert	6STF09PAT05S40X
15	4-40 UNC Threaded insert	6STF15PAT05S20X	15	PCB clip / 4-40 UNC Threaded insert	6STF15PAT05S40X
25	4-40 UNC Threaded insert	6STF25PAT05S20X	25	PCB clip / 4-40 UNC Threaded insert	6STF25PAT05S40X
37	4-40 UNC Threaded insert	6STF37PAT05S20X	37	PCB clip / 4-40 UNC Threaded insert	6STF37PAT05S40X

PCB clip .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness

IP67 C-FILTER D-SUB STANDARD

Plug connector – Solder pin – Angled – .276" / 7.0 mm –
Precision machined contacts – Metal bracket

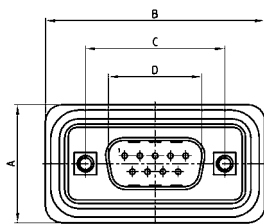


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E 202784

DESCRIPTION

- Mounting styles:
 - with 4-40 UNC or M3 threaded insert
 - with mounting bracket, PCB clip and 4-40 UNC or M3 threaded insert
- Quality class 3 (also available in quality class 1)
- Shell: brass tin plated
- Nickel plated die-cast frame (Black plastic frame on request)

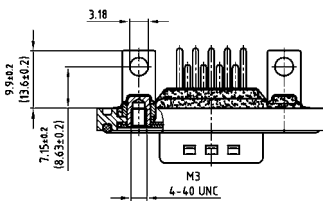
PRODUCT DRAWING



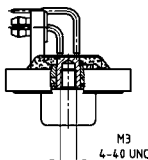
No. of pos.	A +0.30	B +0.30	C	D +0.25	E -0.30
09	21.10	39.40	25.00 ^{+0.12} _{-0.13}	16.79	5.82
15	21.10	47.70	33.30 ^{+0.15} _{-0.10}	25.12	5.82
25	21.10	61.40	47.04 ^{+0.13}	38.84	5.69
37	21.10	77.90	63.50 ^{+0.13}	55.30	5.69
50	23.90	75.50	61.10 ^{+0.14} _{-0.11}	52.68	5.69

PCB-Layout: Kat1kGTA

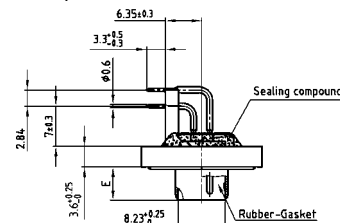
Mounting style: Threaded insert



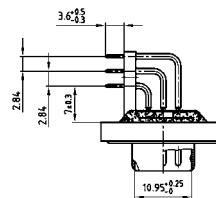
Mounting style: PCB clip, threaded insert



9-37 pos.



50 pos.



ORDER DATA

Capacitance 180 pF

PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number	No. of pos.	Mounting style	Part Number
09	M3 Threaded insert	6STF09PAU01R10X	09	PCB clip / M3 Threaded insert	6STF09PAU01R30X
15	M3 Threaded insert	6STF15PAU01R10X	15	PCB clip / M3 Threaded insert	6STF15PAU01R30X
25	M3 Threaded insert	6STF25PAU01R10X	25	PCB clip / M3 Threaded insert	6STF25PAU01R30X
37	M3 Threaded insert	6STF37PAU01R10X	37	PCB clip / M3 Threaded insert	6STF37PAU01R30X
50	M3 Threaded insert	6STF50PAU01R10X	50	PCB clip / M3 Threaded insert	6STF50PAU01R30X
09	4-40 UNC Threaded insert	6STF09PAU01R20X	09	PCB clip / 4-40 UNC Threaded insert	6STF09PAU01R40X
15	4-40 UNC Threaded insert	6STF15PAU01R20X	15	PCB clip / 4-40 UNC Threaded insert	6STF15PAU01R40X
25	4-40 UNC Threaded insert	6STF25PAU01R20X	25	PCB clip / 4-40 UNC Threaded insert	6STF25PAU01R40X
37	4-40 UNC Threaded insert	6STF37PAU01R20X	37	PCB clip / 4-40 UNC Threaded insert	6STF37PAU01R40X
50	4-40 UNC Threaded insert	6STF50PAU01R20X	50	PCB clip / 4-40 UNC Threaded insert	6STF50PAU01R40X

PCB clip .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness

IP67 C-FILTER D-SUB STANDARD

Plug connector – Solder pin – Angled – .276" / 7.0 mm –

Precision machined contacts – Metal bracket

ORDER DATA

Capacitance 370 pF

PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number	No. of pos.	Mounting style	Part Number
09	M3 Threaded insert	6STF09PAU03R10X	09	PCB clip / M3 Threaded insert	6STF09PAU03R30X
15	M3 Threaded insert	6STF15PAU03R10X	15	PCB clip / M3 Threaded insert	6STF15PAU03R30X
25	M3 Threaded insert	6STF25PAU03R10X	25	PCB clip / M3 Threaded insert	6STF25PAU03R30X
37	M3 Threaded insert	6STF37PAU03R10X	37	PCB clip / M3 Threaded insert	6STF37PAU03R30X
50	M3 Threaded insert	6STF50PAU03R10X	50	PCB clip / M3 Threaded insert	6STF50PAU03R30X
09	4-40 UNC Threaded insert	6STF09PAU03R20X	09	PCB clip / 4-40 UNC Threaded insert	6STF09PAU03R40X
15	4-40 UNC Threaded insert	6STF15PAU03R20X	15	PCB clip / 4-40 UNC Threaded insert	6STF15PAU03R40X
25	4-40 UNC Threaded insert	6STF25PAU03R20X	25	PCB clip / 4-40 UNC Threaded insert	6STF25PAU03R40X
37	4-40 UNC Threaded insert	6STF37PAU03R20X	37	PCB clip / 4-40 UNC Threaded insert	6STF37PAU03R40X
50	4-40 UNC Threaded insert	6STF50PAU03R20X	50	PCB clip / 4-40 UNC Threaded insert	6STF50PAU03R40X

Capacitance 830 pF

PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number	No. of pos.	Mounting style	Part Number
09	M3 Threaded insert	6STF09PAU04R10X	09	PCB clip / M3 Threaded insert	6STF09PAU04R30X
15	M3 Threaded insert	6STF15PAU04R10X	15	PCB clip / M3 Threaded insert	6STF15PAU04R30X
25	M3 Threaded insert	6STF25PAU04R10X	25	PCB clip / M3 Threaded insert	6STF25PAU04R30X
37	M3 Threaded insert	6STF37PAU04R10X	37	PCB clip / M3 Threaded insert	6STF37PAU04R30X
50	M3 Threaded insert	6STF50PAU04R10X	50	PCB clip / M3 Threaded insert	6STF50PAU04R30X
09	4-40 UNC Threaded insert	6STF09PAU04R20X	09	PCB clip / 4-40 UNC Threaded insert	6STF09PAU04R40X
15	4-40 UNC Threaded insert	6STF15PAU04R20X	15	PCB clip / 4-40 UNC Threaded insert	6STF15PAU04R40X
25	4-40 UNC Threaded insert	6STF25PAU04R20X	25	PCB clip / 4-40 UNC Threaded insert	6STF25PAU04R40X
37	4-40 UNC Threaded insert	6STF37PAU04R20X	37	PCB clip / 4-40 UNC Threaded insert	6STF37PAU04R40X
50	4-40 UNC Threaded insert	6STF50PAU04R20X	50	PCB clip / 4-40 UNC Threaded insert	6STF50PAU04R40X

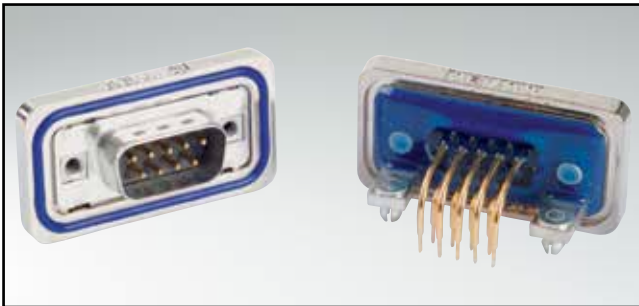
Capacitance 1300 pF

PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number	No. of pos.	Mounting style	Part Number
09	M3 Threaded insert	6STF09PAU05R10X	09	PCB clip / M3 Threaded insert	6STF09PAU05R30X
15	M3 Threaded insert	6STF15PAU05R10X	15	PCB clip / M3 Threaded insert	6STF15PAU05R30X
25	M3 Threaded insert	6STF25PAU05R10X	25	PCB clip / M3 Threaded insert	6STF25PAU05R30X
37	M3 Threaded insert	6STF37PAU05R10X	37	PCB clip / M3 Threaded insert	6STF37PAU05R30X
50	M3 Threaded insert	6STF50PAU05R10X	50	PCB clip / M3 Threaded insert	6STF50PAU05R30X
09	4-40 UNC Threaded insert	6STF09PAU05R20X	09	PCB clip / 4-40 UNC Threaded insert	6STF09PAU05R40X
15	4-40 UNC Threaded insert	6STF15PAU05R20X	15	PCB clip / 4-40 UNC Threaded insert	6STF15PAU05R40X
25	4-40 UNC Threaded insert	6STF25PAU05R20X	25	PCB clip / 4-40 UNC Threaded insert	6STF25PAU05R40X
37	4-40 UNC Threaded insert	6STF37PAU05R20X	37	PCB clip / 4-40 UNC Threaded insert	6STF37PAU05R40X
50	4-40 UNC Threaded insert	6STF50PAU05R20X	50	PCB clip / 4-40 UNC Threaded insert	6STF50PAU05R40X

PCB clip .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness

IP67 C-FILTER D-SUB STANDARD

Plug connector – Solder pin – Angled – .464" / 11.8 mm –
Precision machined contacts – Metal bracket

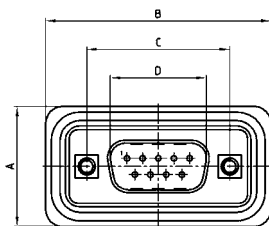


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E 202784

DESCRIPTION

- Mounting styles:
 - with 4-40 UNC or M3 threaded insert
 - with mounting bracket, PCB clip and 4-40 UNC or M3 threaded insert
- Quality class 3 (also available in quality class 1)
- Shell: brass tin plated
- Nickel plated die-cast frame (Black plastic frame on request)

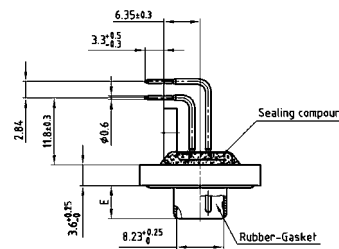
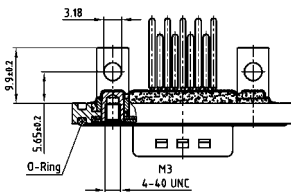
PRODUCT DRAWING



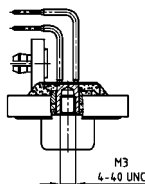
No. of pos.	A +0.30	B +0.30	C	D +0.25	E -0.30
09	21.10	39.40	25.00 ^{+0.12} _{-0.13}	16.79	5.82
15	21.10	47.70	33.30 ^{+0.15} _{-0.10}	25.12	5.82
25	21.10	61.40	47.04 ^{+0.13}	38.84	5.69
37	21.10	77.90	63.50 ^{+0.13}	55.30	5.69

PCB-Layout: Kat1kGUA

Mounting style: Threaded insert



Mounting style: PCB clip, threaded insert



ORDER DATA

Capacitance 180 pF

PLUG CONNECTOR

No. of pos.	Mounting style	Part Number
09	M3 Threaded insert	6STF09PAZ01S10X
15	M3 Threaded insert	6STF15PAZ01S10X
25	M3 Threaded insert	6STF25PAZ01S10X
37	M3 Threaded insert	6STF37PAZ01S10X
09	4-40 UNC Threaded insert	6STF09PAZ01S20X
15	4-40 UNC Threaded insert	6STF15PAZ01S20X
25	4-40 UNC Threaded insert	6STF25PAZ01S20X
37	4-40 UNC Threaded insert	6STF37PAZ01S20X

PLUG CONNECTOR

No. of pos.	Mounting style	Part Number
09	PCB clip / M3 Threaded insert	6STF09PAZ01S30X
15	PCB clip / M3 Threaded insert	6STF15PAZ01S30X
25	PCB clip / M3 Threaded insert	6STF25PAZ01S30X
37	PCB clip / M3 Threaded insert	6STF37PAZ01S30X
09	PCB clip / 4-40 UNC Threaded insert	6STF09PAZ01S40X
15	PCB clip / 4-40 UNC Threaded insert	6STF15PAZ01S40X
25	PCB clip / 4-40 UNC Threaded insert	6STF25PAZ01S40X
37	PCB clip / 4-40 UNC Threaded insert	6STF37PAZ01S40X

PCB clip .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness

IP67 C-FILTER D-SUB STANDARD

Plug connector – Solder pin – Angled – .464" / 11.8 mm –

Precision machined contacts – Metal bracket

ORDER DATA

Capacitance 370 pF

PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number	No. of pos.	Mounting style	Part Number
09	M3 Threaded insert	6STF09PAZ03S10X	09	PCB clip / M3 Threaded insert	6STF09PAZ03S30X
15	M3 Threaded insert	6STF15PAZ03S10X	15	PCB clip / M3 Threaded insert	6STF15PAZ03S30X
25	M3 Threaded insert	6STF25PAZ03S10X	25	PCB clip / M3 Threaded insert	6STF25PAZ03S30X
37	M3 Threaded insert	6STF37PAZ03S10X	37	PCB clip / M3 Threaded insert	6STF37PAZ03S30X
09	4-40 UNC Threaded insert	6STF09PAZ03S20X	09	PCB clip / 4-40 UNC Threaded insert	6STF09PAZ03S40X
15	4-40 UNC Threaded insert	6STF15PAZ03S20X	15	PCB clip / 4-40 UNC Threaded insert	6STF15PAZ03S40X
25	4-40 UNC Threaded insert	6STF25PAZ03S20X	25	PCB clip / 4-40 UNC Threaded insert	6STF25PAZ03S40X
37	4-40 UNC Threaded insert	6STF37PAZ03S20X	37	PCB clip / 4-40 UNC Threaded insert	6STF37PAZ03S40X

Capacitance 830 pF

PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number	No. of pos.	Mounting style	Part Number
09	M3 Threaded insert	6STF09PAZ04S10X	09	PCB clip / M3 Threaded insert	6STF09PAZ04S30X
15	M3 Threaded insert	6STF15PAZ04S10X	15	PCB clip / M3 Threaded insert	6STF15PAZ04S30X
25	M3 Threaded insert	6STF25PAZ04S10X	25	PCB clip / M3 Threaded insert	6STF25PAZ04S30X
37	M3 Threaded insert	6STF37PAZ04S10X	37	PCB clip / M3 Threaded insert	6STF37PAZ04S30X
09	4-40 UNC Threaded insert	6STF09PAZ04S20X	09	PCB clip / 4-40 UNC Threaded insert	6STF09PAZ04S40X
15	4-40 UNC Threaded insert	6STF15PAZ04S20X	15	PCB clip / 4-40 UNC Threaded insert	6STF15PAZ04S40X
25	4-40 UNC Threaded insert	6STF25PAZ04S20X	25	PCB clip / 4-40 UNC Threaded insert	6STF25PAZ04S40X
37	4-40 UNC Threaded insert	6STF37PAZ04S20X	37	PCB clip / 4-40 UNC Threaded insert	6STF37PAZ04S40X

Capacitance 1300 pF

PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number	No. of pos.	Mounting style	Part Number
09	M3 Threaded insert	6STF09PAZ05S10X	09	PCB clip / M3 Threaded insert	6STF09PAZ05S30X
15	M3 Threaded insert	6STF15PAZ05S10X	15	PCB clip / M3 Threaded insert	6STF15PAZ05S30X
25	M3 Threaded insert	6STF25PAZ05S10X	25	PCB clip / M3 Threaded insert	6STF25PAZ05S30X
37	M3 Threaded insert	6STF37PAZ05S10X	37	PCB clip / M3 Threaded insert	6STF37PAZ05S30X
09	4-40 UNC Threaded insert	6STF09PAZ05S20X	09	PCB clip / 4-40 UNC Threaded insert	6STF09PAZ05S40X
15	4-40 UNC Threaded insert	6STF15PAZ05S20X	15	PCB clip / 4-40 UNC Threaded insert	6STF15PAZ05S40X
25	4-40 UNC Threaded insert	6STF25PAZ05S20X	25	PCB clip / 4-40 UNC Threaded insert	6STF25PAZ05S40X
37	4-40 UNC Threaded insert	6STF37PAZ05S20X	37	PCB clip / 4-40 UNC Threaded insert	6STF37PAZ05S40X

PCB clip .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness

IP67 C-FILTER D-SUB STANDARD

Plug connector – Solder cup – Precision machined contacts –
For wire size AWG 26 – Front mounting

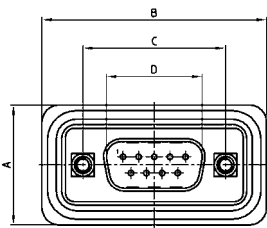


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E 202784

DESCRIPTION

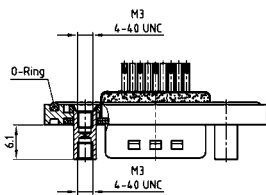
- Suitable for wire size **AWG 26** (AWG 20 available on request)
- Mounting style:
with M3 or 4-40 UNC front spacer
- Quality class 3 (also available in quality class 1)
- Shell: brass tin plated
- Nickel plated die-cast frame
(Black plastic frame on request)

PRODUCT DRAWING

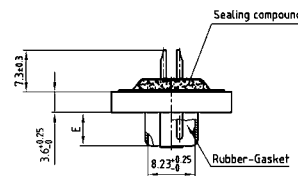


No. of pos.	A +0.30	B +0.30	C	D +0.25	E -0.30
09	21.10	39.40	25.00 ^{+0.12} _{-0.13}	16.79	5.82
15	21.10	47.70	33.30 ^{+0.15} _{-0.10}	25.12	5.82
25	21.10	61.40	47.04 ^{+0.13} _{-0.13}	38.84	5.69
37	21.10	77.90	63.50 ^{+0.13} _{-0.13}	55.30	5.69
50	23.90	75.50	61.10 ^{+0.14} _{-0.11}	52.68	5.69

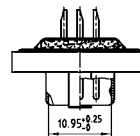
Mounting style: Threaded lock



9-37 pos.



50 pos.



ORDER DATA

Capacitance 180 pF

PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style M3	Part Number	No. of pos.	Mounting style 4-40 UNC	Part Number
09	Front spacer	6STF09PAM01B40X	09	Front spacer	6STF09PAM01B50X
15	Front spacer	6STF15PAM01B40X	15	Front spacer	6STF15PAM01B50X
25	Front spacer	6STF25PAM01B40X	25	Front spacer	6STF25PAM01B50X
37	Front spacer	6STF37PAM01B40X	37	Front spacer	6STF37PAM01B50X
50	Front spacer	6STF50PAM01B40X	50	Front spacer	6STF50PAM01B50X

IP67 C-FILTER D-SUB STANDARD

Plug connector – Solder cup – Precision machined contacts –

For wire size AWG 26 – Front mounting

ORDER DATA

Capacitance 370 pF

PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style M3	Part Number	No. of pos.	Mounting style 4-40 UNC	Part Number
09	Front spacer	6STF09PAM03B40X	09	Front spacer	6STF09PAM03B50X
15	Front spacer	6STF15PAM03B40X	15	Front spacer	6STF15PAM03B50X
25	Front spacer	6STF25PAM03B40X	25	Front spacer	6STF25PAM03B50X
37	Front spacer	6STF37PAM03B40X	37	Front spacer	6STF37PAM03B50X
50	Front spacer	6STF50PAM03B40X	50	Front spacer	6STF50PAM03B50X

Capacitance 830 pF

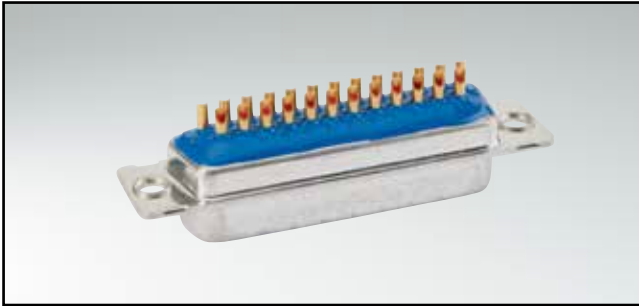
PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style M3	Part Number	No. of pos.	Mounting style 4-40 UNC	Part Number
09	Front spacer	6STF09PAM04B40X	09	Front spacer	6STF09PAM04B50X
15	Front spacer	6STF15PAM04B40X	15	Front spacer	6STF15PAM04B50X
25	Front spacer	6STF25PAM04B40X	25	Front spacer	6STF25PAM04B50X
37	Front spacer	6STF37PAM04B40X	37	Front spacer	6STF37PAM04B50X
50	Front spacer	6STF50PAM04B40X	50	Front spacer	6STF50PAM04B50X

Capacitance 1300 pF

PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style M3	Part Number	No. of pos.	Mounting style 4-40 UNC	Part Number
09	Front spacer	6STF09PAM05B40X	09	Front spacer	6STF09PAM05B50X
15	Front spacer	6STF15PAM05B40X	15	Front spacer	6STF15PAM05B50X
25	Front spacer	6STF25PAM05B40X	25	Front spacer	6STF25PAM05B50X
37	Front spacer	6STF37PAM05B40X	37	Front spacer	6STF37PAM05B50X
50	Front spacer	6STF50PAM05B40X	50	Front spacer	6STF50PAM05B50X

IP67 C-FILTER D-SUB STANDARD

Plug connector – Solder cup – Precision machined contacts –
For wire size AWG 26 – For hood assembly

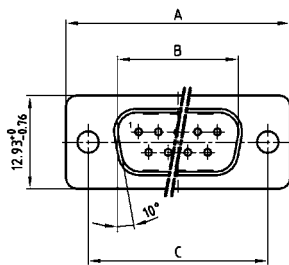


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E 202784

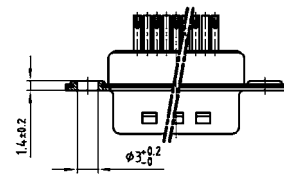
DESCRIPTION

- Suitable for wire size AWG 26 (AWG 20 available on request)
- Mounting style:
with through-hole $\varnothing .118'' / 3,0 \text{ mm}$
- Quality class 3 (also available in quality class 1)
- Shell: brass tin plated

PRODUCT DRAWING

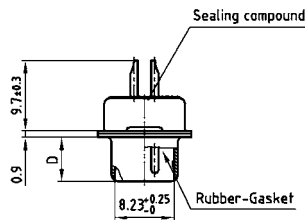


Mounting style: Through-hole

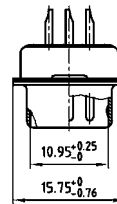


No. of pos.	A -0.76	B +0.25	C	D -0.30
09	31.19	16.79	25.00 ^{+0.12} _{-0.13}	6.12
15	39.52	25.12	33.30 ^{+0.15} _{-0.10}	6.12
25	53.42	38.84	47.04 ^{+0.13}	5.99
37	69.70	55.30	63.50 ^{+0.13}	5.99
50	67.31	52.68	61.10 ^{+0.14} _{-0.11}	5.99

9-37 pos.



50 pos.



ORDER DATA

Capacitance 180 pF

PLUG CONNECTOR

No. of pos.	Mounting style	Part Number
09	Through-hole	4STF09PAM01A10X
15	Through-hole	4STF15PAM01A10X
25	Through-hole	4STF25PAM01A10X
37	Through-hole	4STF37PAM01A10X
50	Through-hole	4STF50PAM01A10X

IP67 C-FILTER D-SUB STANDARD

Plug connector – Solder cup – Precision machined contacts –

For wire size AWG 26 – For hood assembly

ORDER DATA

Capacitance 370 pF

PLUG CONNECTOR

No. of pos.	Mounting style	Part Number
09	Through-hole	4STF09PAM03A10X
15	Through-hole	4STF15PAM03A10X
25	Through-hole	4STF25PAM03A10X
37	Through-hole	4STF37PAM03A10X
50	Through-hole	4STF50PAM03A10X

Capacitance 830 pF

PLUG CONNECTOR

No. of pos.	Mounting style	Part Number
09	Through-hole	4STF09PAM04A10X
15	Through-hole	4STF15PAM04A10X
25	Through-hole	4STF25PAM04A10X
37	Through-hole	4STF37PAM04A10X
50	Through-hole	4STF50PAM04A10X

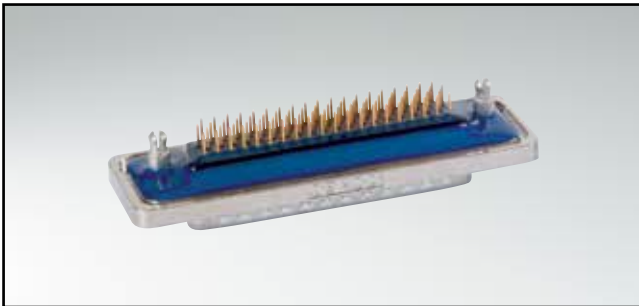
Capacitance 1300 pF

PLUG CONNECTOR

No. of pos.	Mounting style	Part Number
09	Through-hole	4STF09PAM05A10X
15	Through-hole	4STF15PAM05A10X
25	Through-hole	4STF25PAM05A10X
37	Through-hole	4STF37PAM05A10X
50	Through-hole	4STF50PAM05A10X

IP67 C-FILTER D-SUB HIGH DENSITY

Plug connector – Solder pin – Straight – Precision machined contacts

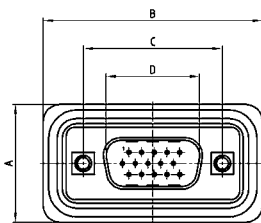


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E 202784

DESCRIPTION

- Mounting styles:
 - with 4-40 UNC or M3 threaded insert
 - with 4-40 UNC or M3 threaded rear spacer with PCB clip
- Quality class 3 (also available in quality class 1)
- Shell: brass tin plated
- Nickel plated die-cast frame
(Black plastic frame on request)

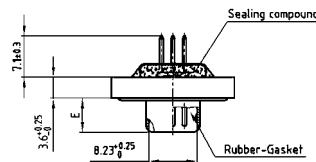
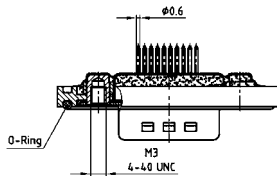
PRODUCT DRAWING



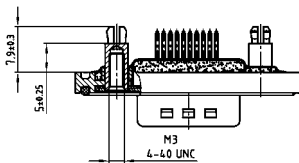
No. of pos.	A +0.30	B +0.30	C	D +0.25	E -0.30
15	21.10	39.40	25.00 ^{+0.12} _{-0.13}	16.79	5.82
26	21.10	47.70	33.30 ^{+0.15} _{-0.10}	25.12	5.82
44	21.10	61.40	47.04 ^{+0.13}	38.84	5.69
62	21.10	77.90	63.50 ^{+0.13}	55.30	5.69

PCB-Layout: Kat1kFWA / Kat1iU0A

Mounting style: Threaded insert



Mounting style: Threaded rear spacer with PCB clip



ORDER DATA

Capacitance 180 pF

PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number	No. of pos.	Mounting style	Part Number
15	M3 Threaded insert	6HDF15PAR01B20X	15	M3 Threaded rear spacer PCB clip	6HDF15PAR01E10X
26	M3 Threaded insert	6HDF26PAR01B20X	26	M3 Threaded rear spacer PCB clip	6HDF26PAR01E10X
44	M3 Threaded insert	6HDF44PAR01B20X	44	M3 Threaded rear spacer PCB clip	6HDF44PAR01E10X
62	M3 Threaded insert	6HDF62PAR01B20X	62	M3 Threaded rear spacer PCB clip	6HDF62PAR01E10X
15	4-40 UNC Threaded insert	6HDF15PAR01B30X	15	4-40 UNC Threaded rear spacer PCB clip	6HDF15PAR01E20X
26	4-40 UNC Threaded insert	6HDF26PAR01B30X	26	4-40 UNC Threaded rear spacer PCB clip	6HDF26PAR01E20X
44	4-40 UNC Threaded insert	6HDF44PAR01B30X	44	4-40 UNC Threaded rear spacer PCB clip	6HDF44PAR01E20X
62	4-40 UNC Threaded insert	6HDF62PAR01B30X	62	4-40 UNC Threaded rear spacer PCB clip	6HDF62PAR01E20X

PCB clip .122"/3.1 ± .004"/0.10 mm hole diameter and .063"/1.6 mm circuit board thickness

IP67 C-FILTER D-SUB HIGH DENSITY

Plug connector – Solder pin – Straight – Precision machined contacts

ORDER DATA

Capacitance 370 pF

PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number	No. of pos.	Mounting style	Part Number
15	M3 Threaded insert	6HDF15PARO3B20X	15	M3 Threaded rear spacer PCB clip	6HDF15PARO3E10X
26	M3 Threaded insert	6HDF26PARO3B20X	26	M3 Threaded rear spacer PCB clip	6HDF26PARO3E10X
44	M3 Threaded insert	6HDF44PARO3B20X	44	M3 Threaded rear spacer PCB clip	6HDF44PARO3E10X
62	M3 Threaded insert	6HDF62PARO3B20X	62	M3 Threaded rear spacer PCB clip	6HDF62PARO3E10X
15	4-40 UNC Threaded insert	6HDF15PARO3B30X	15	4-40 UNC Threaded rear spacer PCB clip	6HDF15PARO3E20X
26	4-40 UNC Threaded insert	6HDF26PARO3B30X	26	4-40 UNC Threaded rear spacer PCB clip	6HDF26PARO3E20X
44	4-40 UNC Threaded insert	6HDF44PARO3B30X	44	4-40 UNC Threaded rear spacer PCB clip	6HDF44PARO3E20X
62	4-40 UNC Threaded insert	6HDF62PARO3B30X	62	4-40 UNC Threaded rear spacer PCB clip	6HDF62PARO3E20X

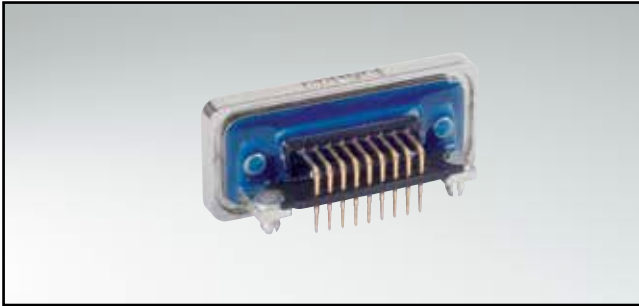
Capacitance 830 pF

PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number	No. of pos.	Mounting style	Part Number
15	M3 Threaded insert	6HDF15PARO4B20X	15	M3 Threaded rear spacer PCB clip	6HDF15PARO4E10X
26	M3 Threaded insert	6HDF26PARO4B20X	26	M3 Threaded rear spacer PCB clip	6HDF26PARO4E10X
44	M3 Threaded insert	6HDF44PARO4B20X	44	M3 Threaded rear spacer PCB clip	6HDF44PARO4E10X
62	M3 Threaded insert	6HDF62PARO4B20X	62	M3 Threaded rear spacer PCB clip	6HDF62PARO4E10X
15	4-40 UNC Threaded insert	6HDF15PARO4B30X	15	4-40 UNC Threaded rear spacer PCB clip	6HDF15PARO4E20X
26	4-40 UNC Threaded insert	6HDF26PARO4B30X	26	4-40 UNC Threaded rear spacer PCB clip	6HDF26PARO4E20X
44	4-40 UNC Threaded insert	6HDF44PARO4B30X	44	4-40 UNC Threaded rear spacer PCB clip	6HDF44PARO4E20X
62	4-40 UNC Threaded insert	6HDF62PARO4B30X	62	4-40 UNC Threaded rear spacer PCB clip	6HDF62PARO4E20X

PCB clip .122"/3.1 ± .004"/0.10 mm hole diameter and .063"/1.6 mm circuit board thickness

IP67 C-FILTER D-SUB HIGH DENSITY

Plug connector – Solder pin – Angled – .220" / 5.6 mm –
Precision machined contacts – Metal bracket

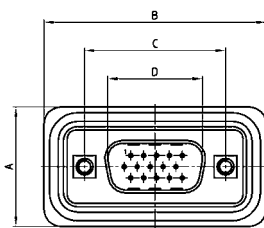


RoHS compliant – CSA listed, File No.: LR 115000-1 – UL listed, File No.: E 202784

DESCRIPTION

- Mounting styles:
 - with 4-40 UNC or M3 threaded insert
 - with mounting bracket, PCB clip and 4-40 UNC or M3 threaded insert
- Quality class 3 (also available in quality class 1)
- Shell: brass tin plated
- Nickel plated die-cast frame (Black plastic frame on request)

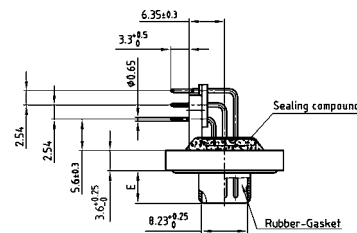
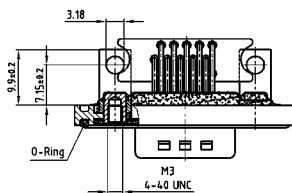
PRODUCT DRAWING



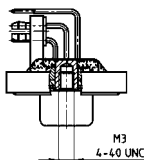
No. of pos.	A +0.30	B +0.30	C	D +0.25	E -0.30
15	21.10	39.40	25.00 ^{+0.12} _{-0.13}	16.79	5.82
26	21.10	47.70	33.30 ^{+0.15} _{-0.10}	25.12	5.82
44	21.10	61.40	47.04 ^{+0.13}	38.84	5.69
62	21.10	77.90	63.50 ^{+0.13}	55.30	5.69

PCB-Layout: Kat1kgWA

Mounting style: Threaded insert



Mounting style: PCB clip, threaded insert



ORDER DATA

Capacitance 180 pF

PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number	No. of pos.	Mounting style	Part Number
15	M3 Threaded insert	6HDF15PAY01R10X	15	PCB clip / M3 Threaded insert	6HDF15PAY01R30X
26	M3 Threaded insert	6HDF26PAY01R10X	26	PCB clip / M3 Threaded insert	6HDF26PAY01R30X
44	M3 Threaded insert	6HDF44PAY01R10X	44	PCB clip / M3 Threaded insert	6HDF44PAY01R30X
62	M3 Threaded insert	6HDF62PAY01R10X	62	PCB clip / M3 Threaded insert	6HDF62PAY01R30X
15	4-40 UNC Threaded insert	6HDF15PAY01R20X	15	PCB clip / 4-40 UNC Threaded insert	6HDF15PAY01R40X
26	4-40 UNC Threaded insert	6HDF26PAY01R20X	26	PCB clip / 4-40 UNC Threaded insert	6HDF26PAY01R40X
44	4-40 UNC Threaded insert	6HDF44PAY01R20X	44	PCB clip / 4-40 UNC Threaded insert	6HDF44PAY01R40X
62	4-40 UNC Threaded insert	6HDF62PAY01R20X	62	PCB clip / 4-40 UNC Threaded insert	6HDF62PAY01R40X

PCB clip .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness

IP67 C-FILTER D-SUB HIGH DENSITY

Plug connector – Solder pin – Angled – .220" / 5.6 mm –

Precision machined contacts – Metal bracket

ORDER DATA

Capacitance 370 pF

PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number	No. of pos.	Mounting style	Part Number
15	M3 Threaded insert	6HDF15PAY03R10X	15	PCB clip / M3 Threaded insert	6HDF15PAY03R30X
26	M3 Threaded insert	6HDF26PAY03R10X	26	PCB clip / M3 Threaded insert	6HDF26PAY03R30X
44	M3 Threaded insert	6HDF44PAY03R10X	44	PCB clip / M3 Threaded insert	6HDF44PAY03R30X
62	M3 Threaded insert	6HDF62PAY03R10X	62	PCB clip / M3 Threaded insert	6HDF62PAY03R30X
15	4-40 UNC Threaded insert	6HDF15PAY03R20X	15	PCB clip / 4-40 UNC Threaded insert	6HDF15PAY03R40X
26	4-40 UNC Threaded insert	6HDF26PAY03R20X	26	PCB clip / 4-40 UNC Threaded insert	6HDF26PAY03R40X
44	4-40 UNC Threaded insert	6HDF44PAY03R20X	44	PCB clip / 4-40 UNC Threaded insert	6HDF44PAY03R40X
62	4-40 UNC Threaded insert	6HDF62PAY03R20X	62	PCB clip / 4-40 UNC Threaded insert	6HDF62PAY03R40X

Capacitance 830 pF

PLUG CONNECTOR			PLUG CONNECTOR		
No. of pos.	Mounting style	Part Number	No. of pos.	Mounting style	Part Number
15	M3 Threaded insert	6HDF15PAY04R10X	15	PCB clip / M3 Threaded insert	6HDF15PAY04R30X
26	M3 Threaded insert	6HDF26PAY04R10X	26	PCB clip / M3 Threaded insert	6HDF26PAY04R30X
44	M3 Threaded insert	6HDF44PAY04R10X	44	PCB clip / M3 Threaded insert	6HDF44PAY04R30X
62	M3 Threaded insert	6HDF62PAY04R10X	62	PCB clip / M3 Threaded insert	6HDF62PAY04R30X
15	4-40 UNC Threaded insert	6HDF15PAY04R20X	15	PCB clip / 4-40 UNC Threaded insert	6HDF15PAY04R40X
26	4-40 UNC Threaded insert	6HDF26PAY04R20X	26	PCB clip / 4-40 UNC Threaded insert	6HDF26PAY04R40X
44	4-40 UNC Threaded insert	6HDF44PAY04R20X	44	PCB clip / 4-40 UNC Threaded insert	6HDF44PAY04R40X
62	4-40 UNC Threaded insert	6HDF62PAY04R20X	62	PCB clip / 4-40 UNC Threaded insert	6HDF62PAY04R40X

PCB clip .122" / 3.1 ± .004" / 0.10 mm hole diameter and .063" / 1.6 mm circuit board thickness

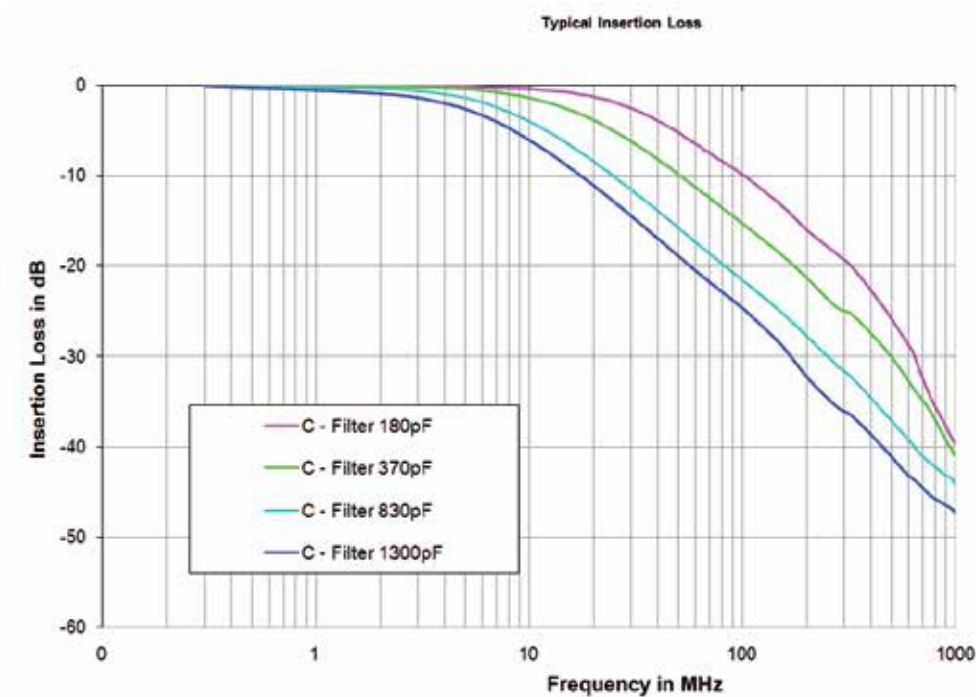
TECHNICAL DATA

Materials	Filter D-SUB Standard IP67 9, 15, 25, 37 and 50 position	Filter D-SUB High Density IP67 15, 26, 44, and 62 position
Insulator	Polyester GF UL94 V-0	
Contacts	CU alloy	
Contact plating	Gold plated over nickel, solder area tin plated (PCB)	
Shell	Brass tin plated	
Mechanical and electrical characteristics		
Dielectric with standing voltage	Standard 424 VDC	Standard 300 VDC
Working voltage	100 VDC Depending on isolation coordination (refer to DIN VDE 0110/IEC 664-1)	100 VDC
Contact resistance	Max. 10 mΩ prior to stressing, Δ R max. 10 mΩ after stressing per DIN 41652, Part 2	
Insulation resistance	≥ 1GΩ	
Current rating	7.5 A (UL) / 5 A (CSA, VDE)	3 A (UL, VDE) / 2.5 A (CSA)
Voltage surge 10/700μs	Standard 300 V	Standard 300 V
Temperature working range	-25°C to +105°C	-25°C to +85°C
Capacitor values For other capacitance values please contact the factory.	180 pF ± 20% tolerance 370 pF ± 20% tolerance 830 pF ± 20% tolerance 1300 pF ± 20% tolerance	180 pF ± 20% tolerance 370 pF ± 20% tolerance 830 pF ± 20% tolerance
Mating and unmating forces	9 pos. ≤ 30 N 15 pos. ≤ 50 N 25 pos. ≤ 83 N 37 pos. ≤ 123 N 50 pos. ≤ 167 N	15 pos. ≤ 50 N 26 pos. ≤ 84 N 44 pos. ≤ 120 N 62 pos. ≤ 170 N
Quality class	A = Quality class 3 = 50 mating cycles B = Quality class 2 = 200 mating cycles C = Quality class 1 = 500 mating cycles	
Degree of protection	Requirement according to IEC 60529 – IP67	

Technical specifications are subject to change without notice.

INSERTION LOSS

C-FILTER WITH PLANAR FILTER TECHNOLOGY



SOLDER PROFILE

Connector Type	Preheating		Solder terminal dipping parameters	
	max. Temperature	Duration	max. Solder bath Temperature	max. Terminal Immersion Time
Filter D-SUB	100°C	30s	260°C	5s
Combo D-SUB Filter	120°C	120s	260°C	5s
Filter D-SUB Water Resistant	100°C	30s	240°C	5s
Combo D-SUB Water Resistant	120°C	120s	240°C	5s
D-SUB Water Resistant	120°C	120s	240°C	5s
D-SUB Solid Body Type Water Resistant	150°C	180s	265°C	8s
RJ45 Modular Jack Filtered	150°C	180s	265°C	8s
Filter Plates	150°C	180s	265°C	8s

Recommended wave-solder parameters for CONEC connectors.

IP-CODE DEFINITIONS

1. Code figure	Definition	Remark
0	Not protected	
1	Protected against access to hazardous parts by the back of the hand. Protected against fixed foreign objects $\varnothing \geq 1.969''/50$ mm.	
2	Protected against access to hazardous parts with a finger. Protected against fixed foreign objects $\varnothing \geq .492''/12.5$ mm.	
3	Protected against access to hazardous parts with a tool. Protected against fixed foreign objects $\varnothing \geq .098''/2.5$ mm.	
4	Protected against access to hazardous parts with a wire. Protected against fixed foreign objects $\varnothing \geq .039''/1$ mm.	
5	Protected against access to hazardous parts with a wire. Dust protected.	Ingress of dust is not completely blocked. But dust may not penetrate to the extent that satisfactory operation of the device or safety is impaired.
6	Protected against access to hazardous parts with a wire. Dustproof. No ingress of dust.	
2. Code figure	Definition	Remark
0	Not protected	
1	Protected against dropper.	
2	Protected against dropper when the shell is tipped as much as 15°.	
3	Protected against spray water	Up to 60° of either side of the vertical, such spray water shall have no harmful effects.
4	Protected against splash water	On the shell from all directions, no harmful effects shall be incurred.
5	Protected against jets of water.	
6	Protected against strong jets of water.	
7	Protected against the effects of temporary submersion in water.	Water may not ingress in a volume that would cause harmful effects when the shell is submerged in water for 30 min at a depth of 1 m.
8	Protected against the effects of continuous submersion in water.	Water may not ingress in a volume that would cause harmful effects when the shell is continuously submerged in water under conditions agreed between manufacturer and user. However, these conditions must be more stringent than those described under code figure 7.
9k	Protected against water from high-pressure or steam cleaning.	

Explanation to spray water protected (IP) systems and their environment.

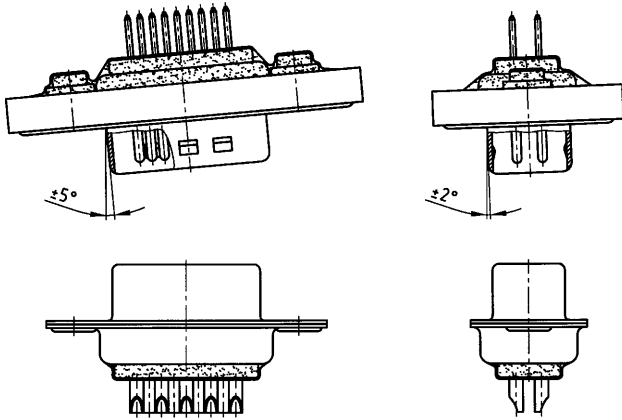
This system, described in IEC 60529, was developed to represent standard values for respective protection:

- Contact with, and ingress of, fixed foreign objects
- The ingress of liquids to which the inside is to be exposed.

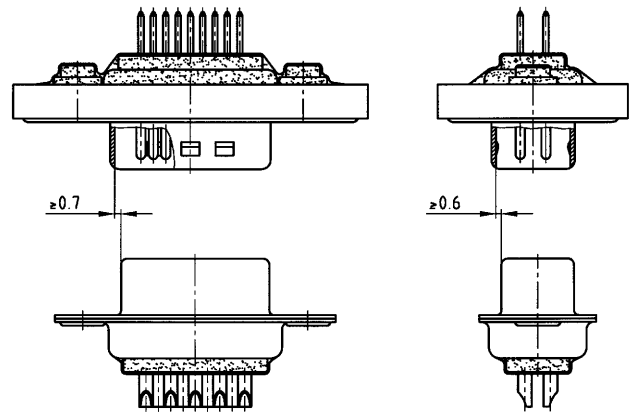
The first digit describes the level of protection for life, contacting objects and the intrusion of foreign bodies. The second digit describes the level of protection against the ingress of liquids. The larger the first and second digits are, the greater afforded protection is, e.g. IP55 must also meet the requirements of all lower protection levels, such as IP22, IP23, IP34 and IP54.

MATING CONDITIONS

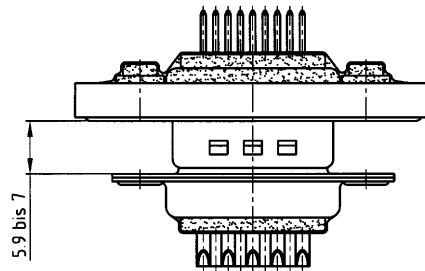
Float mount tolerance guide



Rigid mount tolerance guide

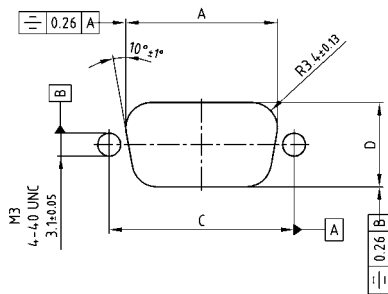


Rigid mount vertical to tolerance guide

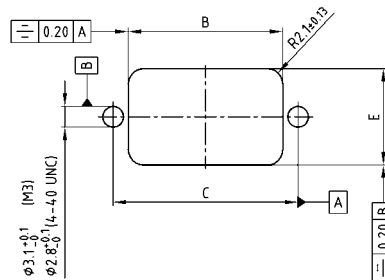


PANEL CUT-OUT

Rear panel mounting



Front panel mounting

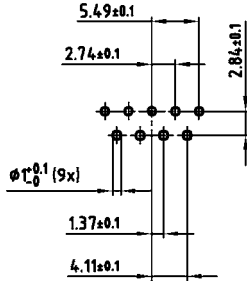


Shell size	A ± 0.1	B ± 0.1	C ± 0.1	D ± 0.1	E ± 0.1
9	20.50	20.90	25.00	11.40	13.00
15	28.80	29.20	33.30	11.40	13.00
25	42.50	42.90	47.04	11.40	13.00
37	59.10	59.40	63.50	11.40	13.00
50	56.30	57.00	61.10	14.10	15.80

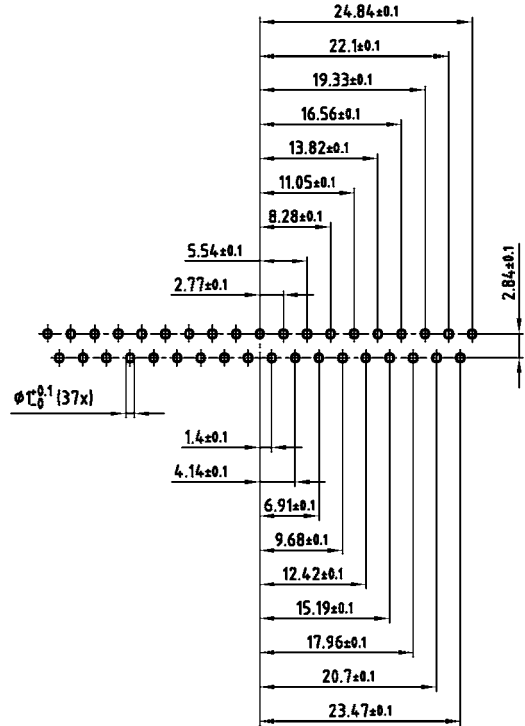
PCB LAYOUT D-SUB STANDARD

Solder pin, straight – Without rear spacer PCB clip – Plug connector

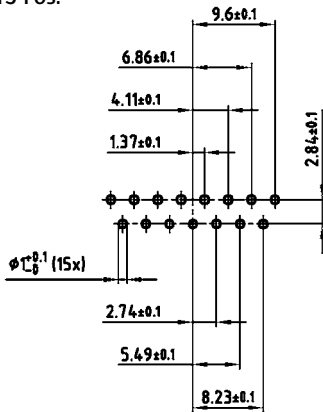
9 POS.



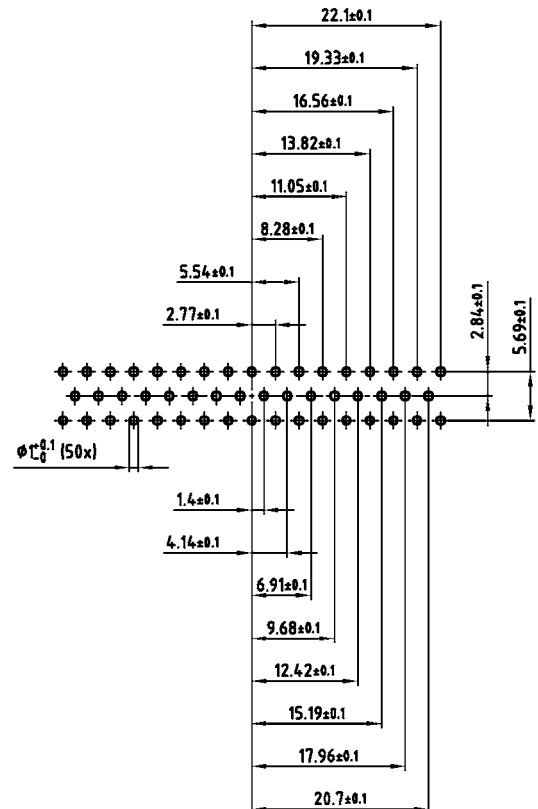
37 POS.



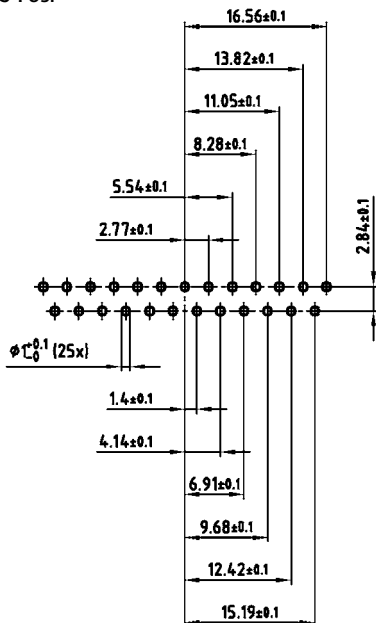
15 POS.



50 POS.



25 POS.

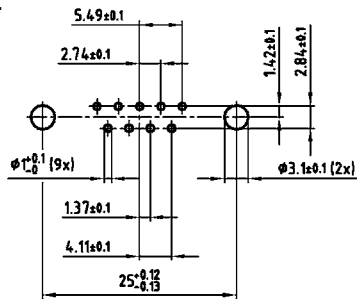


PCB layout Kat1 kFVA (View: component side)

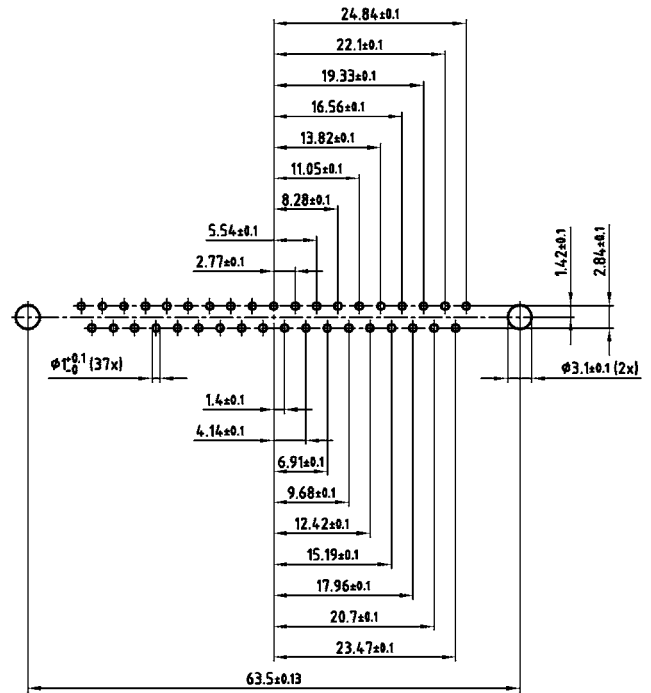
PCB LAYOUT D-SUB STANDARD

Solder pin, straight – With rear spacer PCB clip – Plug connector

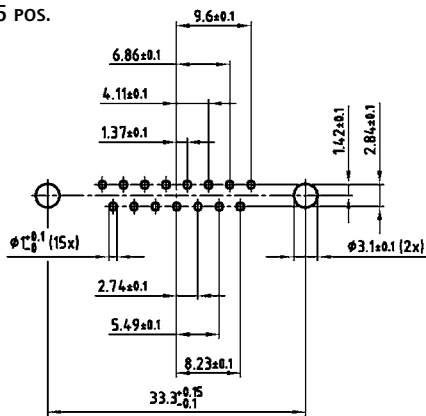
9 POS.



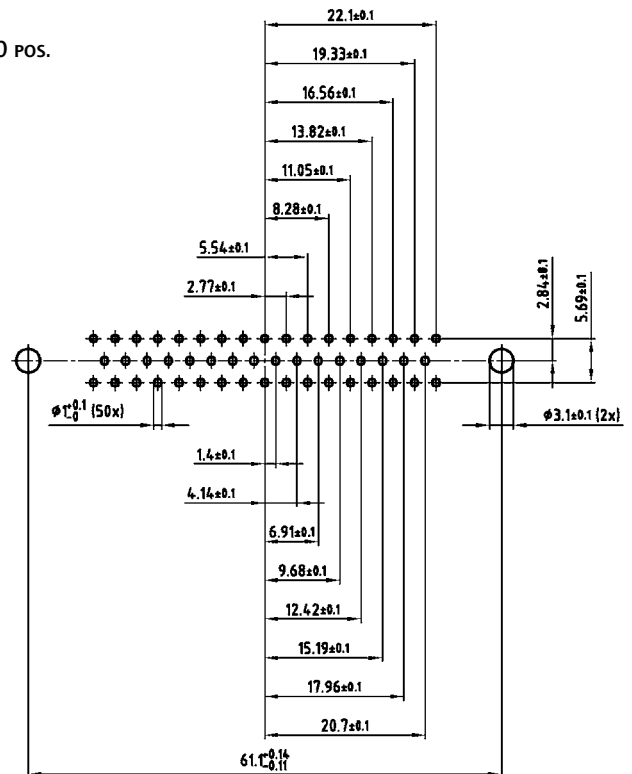
37 POS.



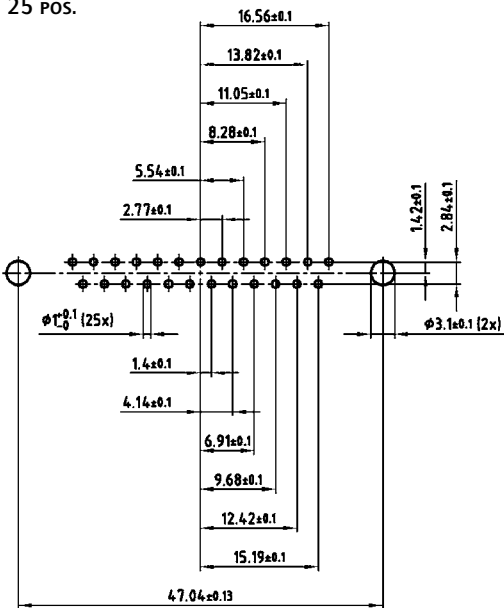
15 POS.



50 POS.



25 POS.

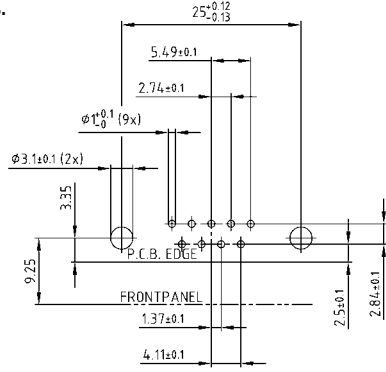


PCB layout Kat1kFUA (View: component side)

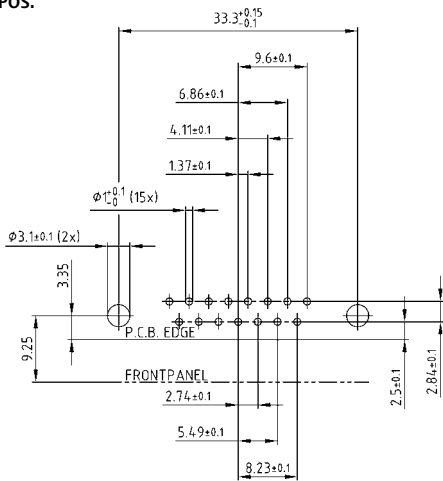
PCB LAYOUT D-SUB STANDARD

Solder pin, angled .189" / 4.8 mm – Plug connector

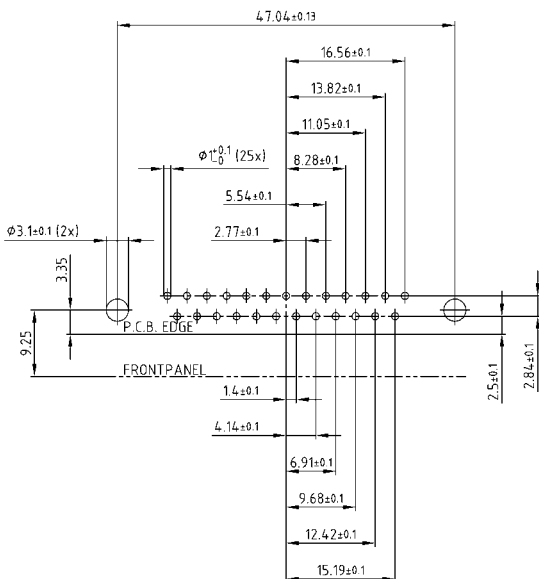
9 POS.



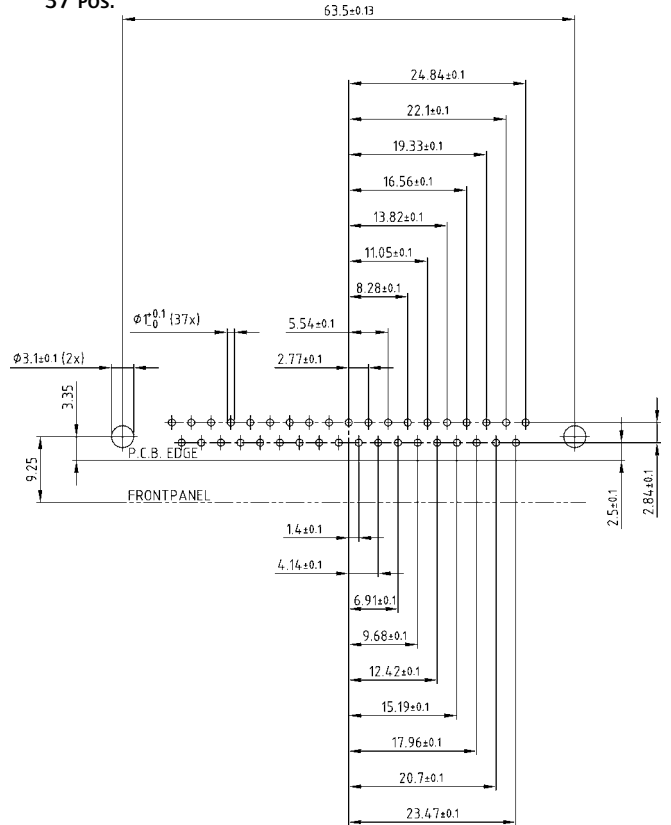
15 POS.



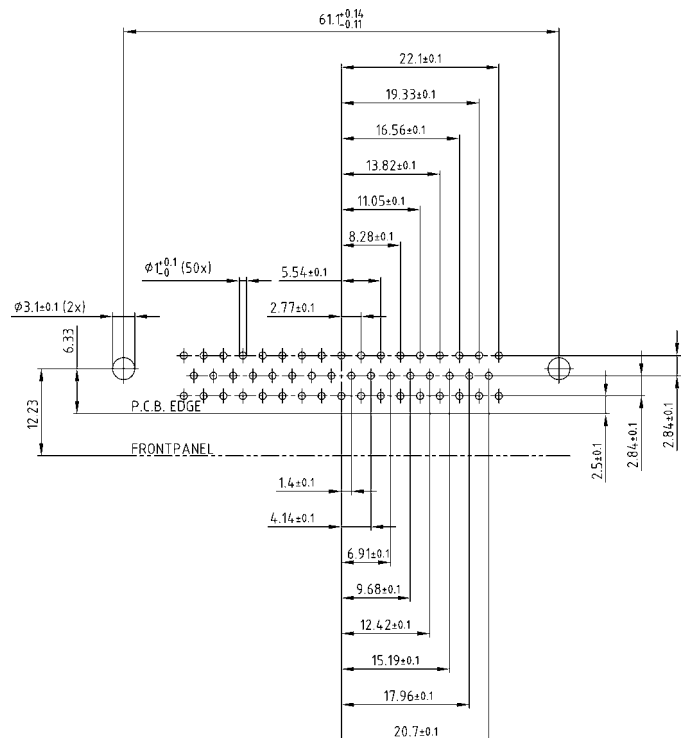
25 POS.



37 POS.



50 POS.

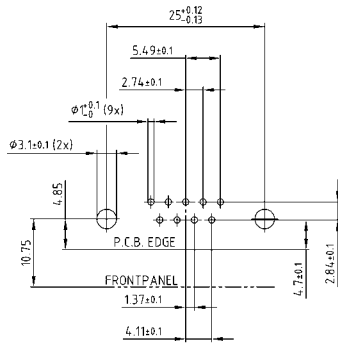


PCB layout Kat1kGSA (View: component side)

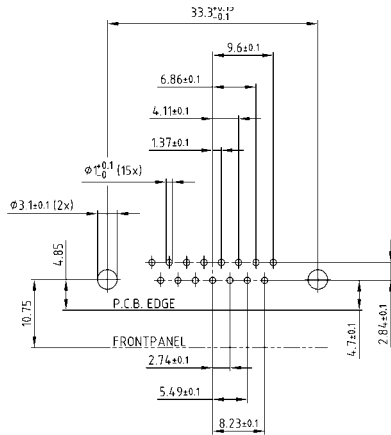
PCB LAYOUT D-SUB STANDARD

Solder pin, angled .276" / 7.0 mm – Plug connector

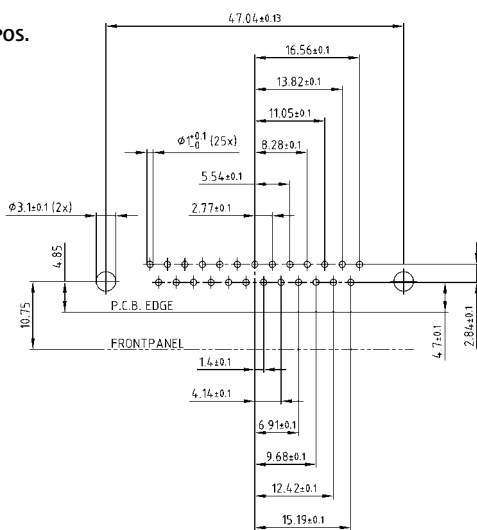
9 pos.



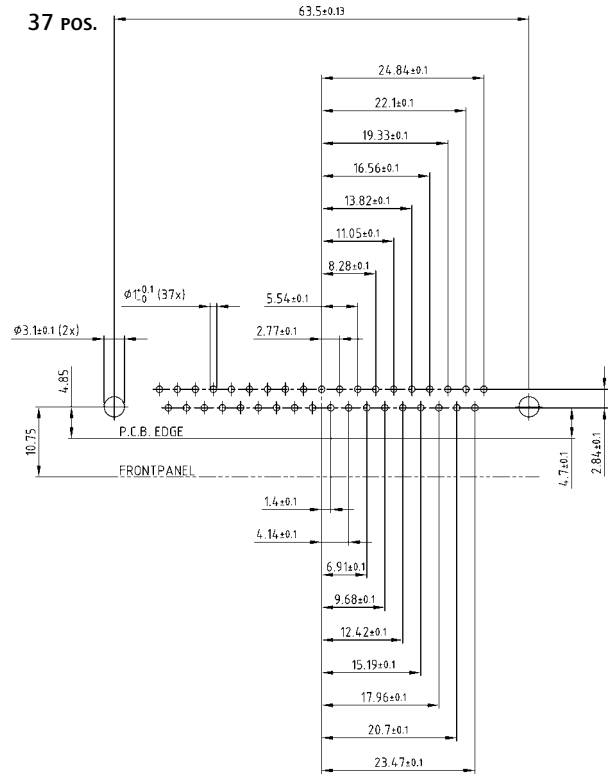
15 pos.



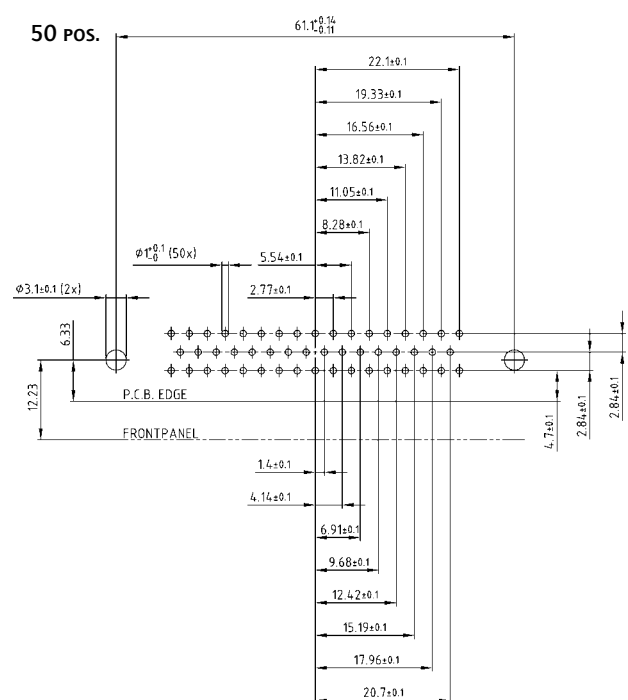
25 pos.



37 pos.



50 pos.

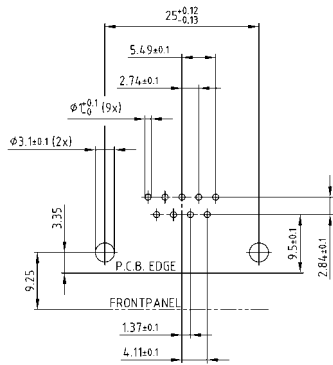


PCB layout Kat1 kGTA (View: component side)

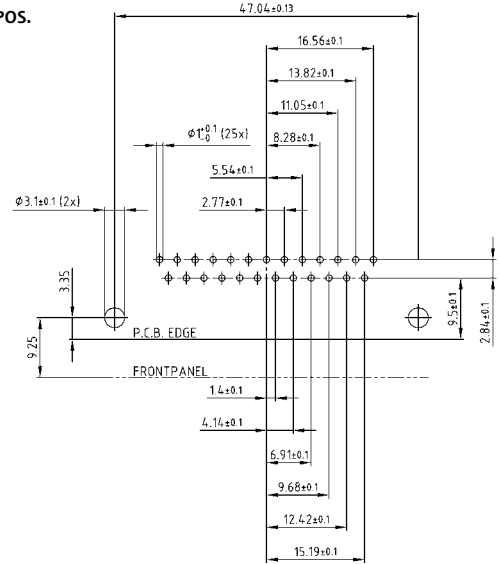
PCB LAYOUT D-SUB STANDARD

Solder pin, angled, .464" / 11.8 mm – Plug connector

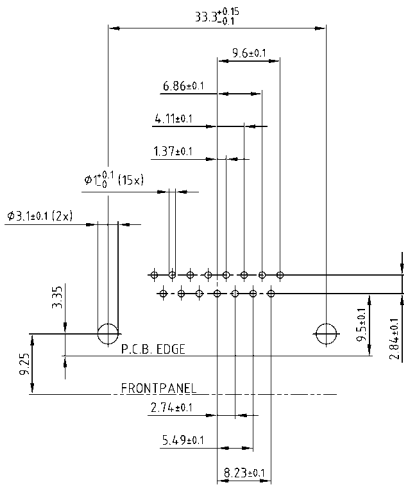
9 pos.



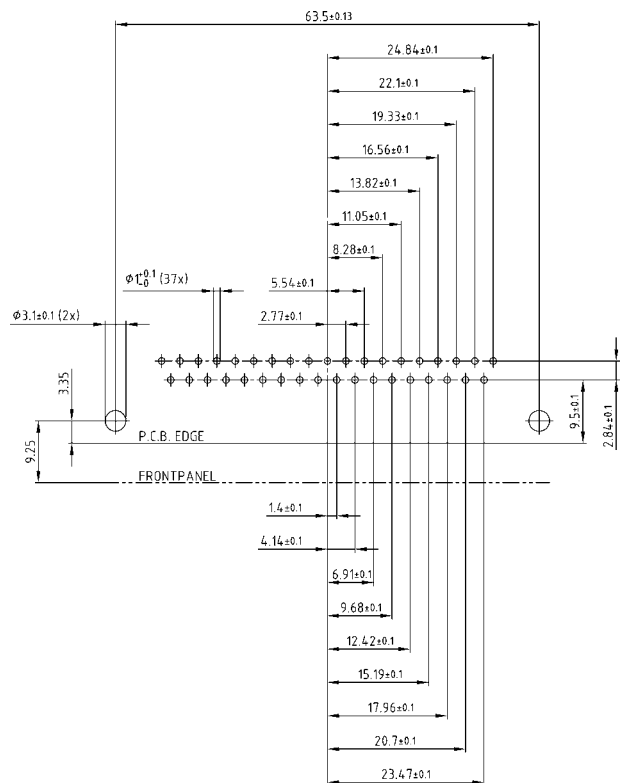
25 pos.



15 pos.



37 pos.

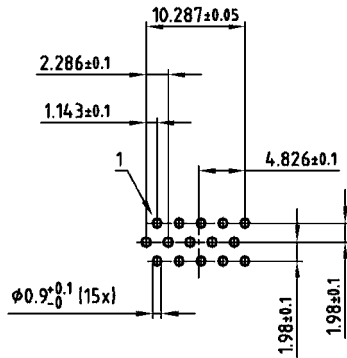


PCB layout Kat1 kGUA (View: component side)

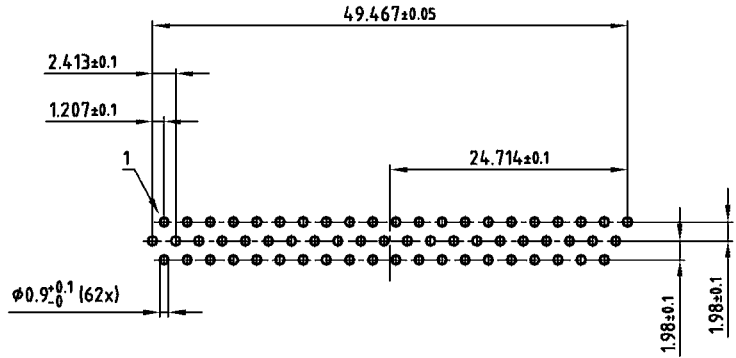
PCB LAYOUT D-SUB HIGH DENSITY

Solder pin, straight – Without rear spacer PCB clip – Plug connector

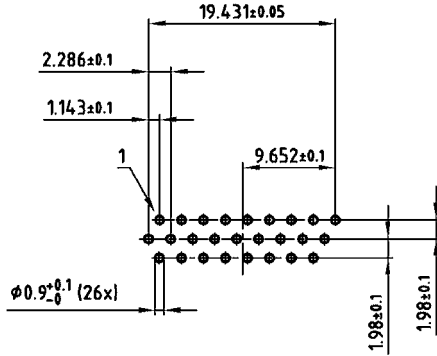
15 POS.



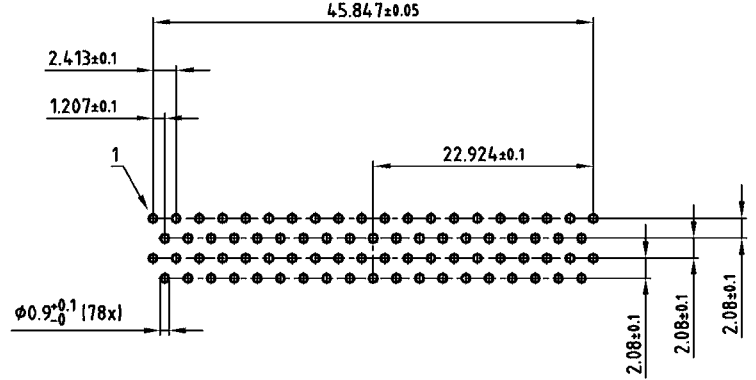
62 POS.



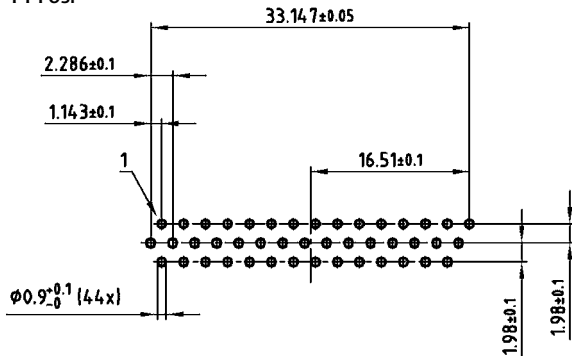
26 POS.



78 POS.



44 POS.

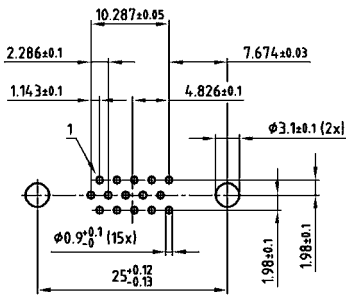


PCB layout Kat1 kFWA (View: component side)

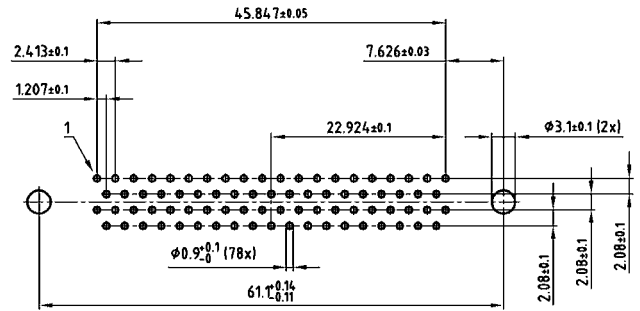
PCB LAYOUT D-SUB HIGH DENSITY

Solder pin, straight – With rear spacer PCB clip – Plug connector

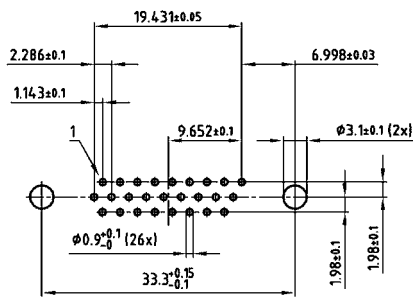
15 POS.



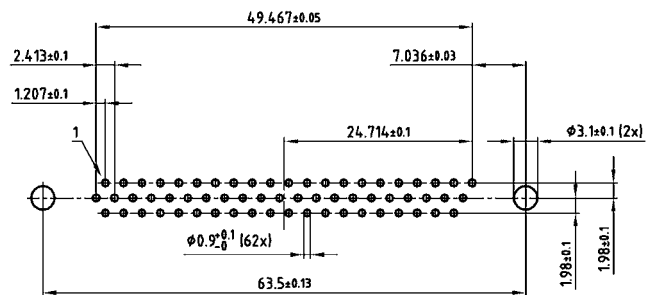
62 POS.



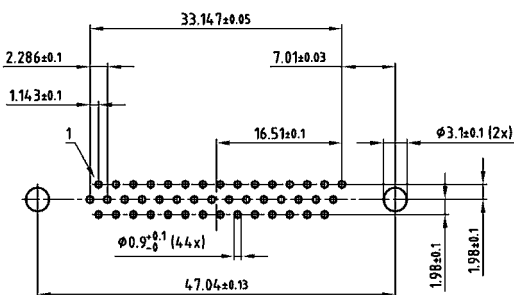
26 POS.



78 POS.



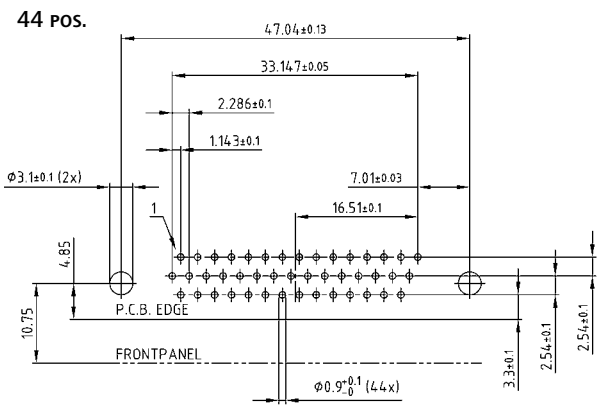
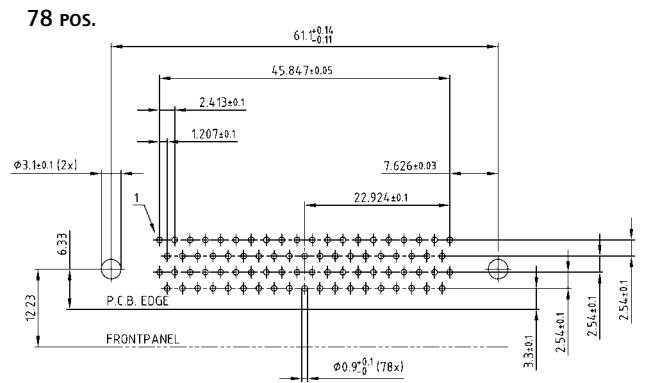
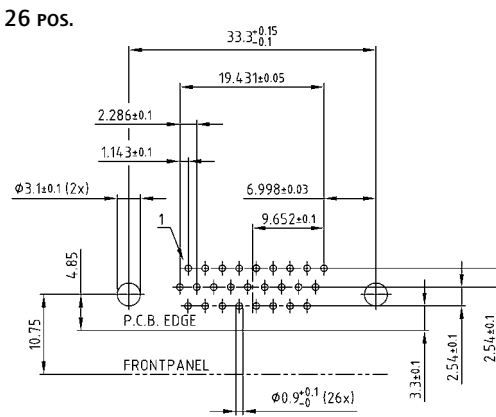
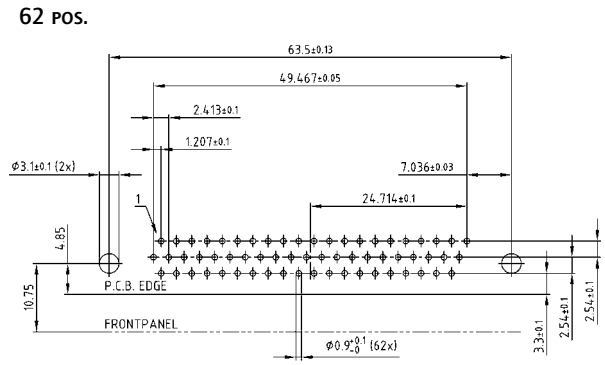
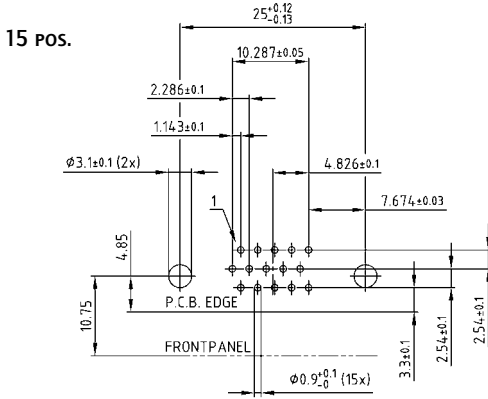
44 POS.



PCB layout Kat1iU0A (View: component side)

PCB LAYOUT D-SUB HIGH DENSITY

Solder pin, angled, .220" / 5.6 mm – Plug connector



PCB layout Kat1 kgWA (View: component side)