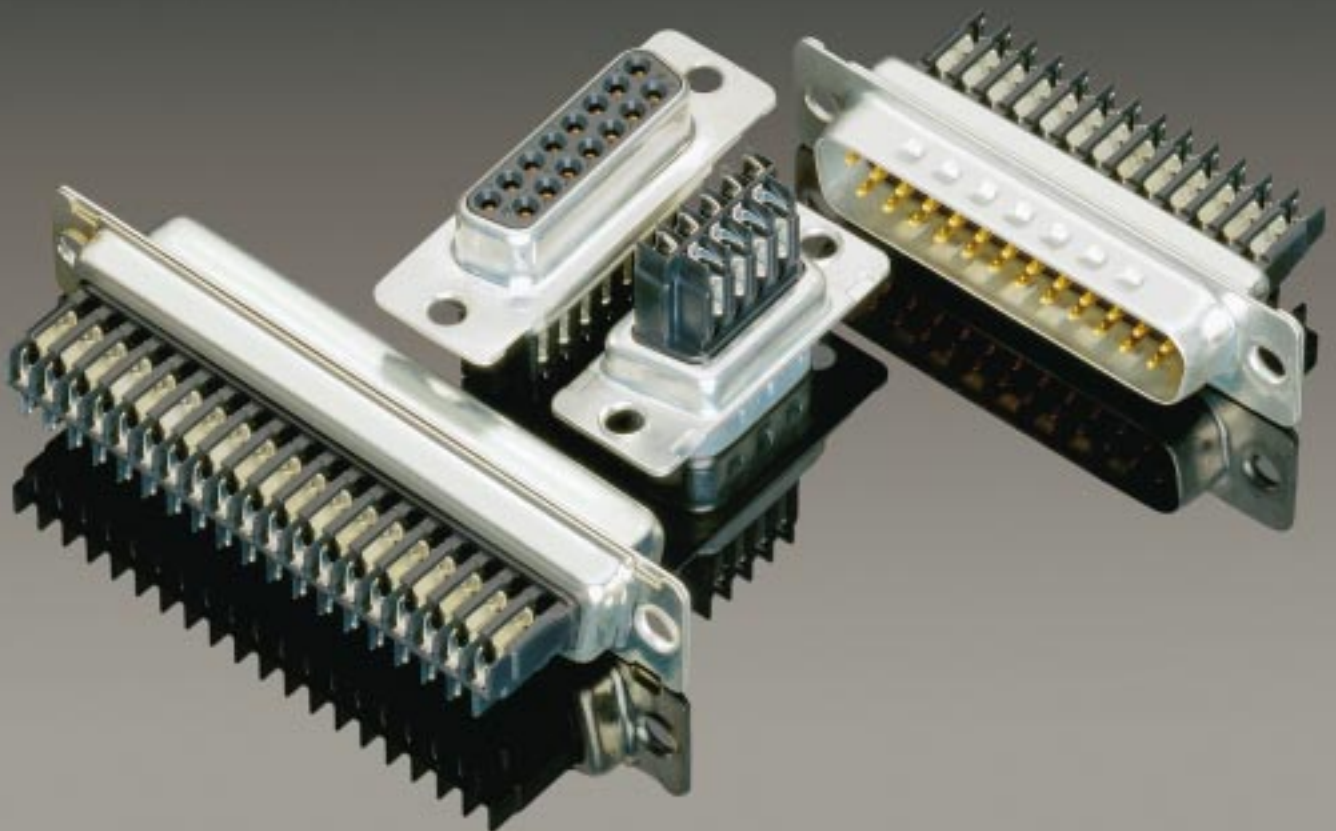

D*W

CONNECTORS



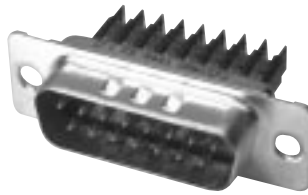
Discrete Wire IDC

The D*W connector provides insulation displacement connection technology for either solid or strand wires.

With D*W, speed of cabling is increased significantly over solder cup or crimp solutions.

Contacts are easily removable and replaceable.

Several specialized accessories (including shield cans, ferrules, and plastic boots) are available to provide a complete product solution.



Plug



Receptacle

Product Features

- ◆ Quick harnessing capability with simple hand or semi-automatic tooling.
- ◆ Wire accommodation
 - 28 AWG / 30 AWG Contact Type 1
 - 22 AWG / 26 AWG Contact Type 2
 - 20 AWG / 22 AWG Contact Type 3
 - (Sizes can be mixed)
- ◆ Contact cavity arrangements: shell sizes E, A, B, and C.
- ◆ Front shell with dimple indents (P type)
- ◆ Shield cans insure reliable shielding continuity
- ◆ Current rating: 0.8 A to 3.0 A
- ◆ Dual float mount options (Code Y)
- ◆ Optional clinch nuts with #4-40 threads (Code E)
- ◆ Stamped contacts

Materials and Finishes

Contacts	Copper Alloy
Contact Finish	Gold over Nickel in mating area, Tin on balance
	Optional 0.76 µm Gold, suffix -A176
Insulator	Thermoplastic UL 94 V-0, Color black
Shell and Hardware	Steel, tinned

Performance Specifications

Current Rating	3.0 A (20 AWG) – 0.8 A (30 AWG)
Temperature Rating	–55 to +125 °C
Contact Resistance	15 milliohm max.
Dielectric Withstanding Voltage	1000 VAC at Sea Level

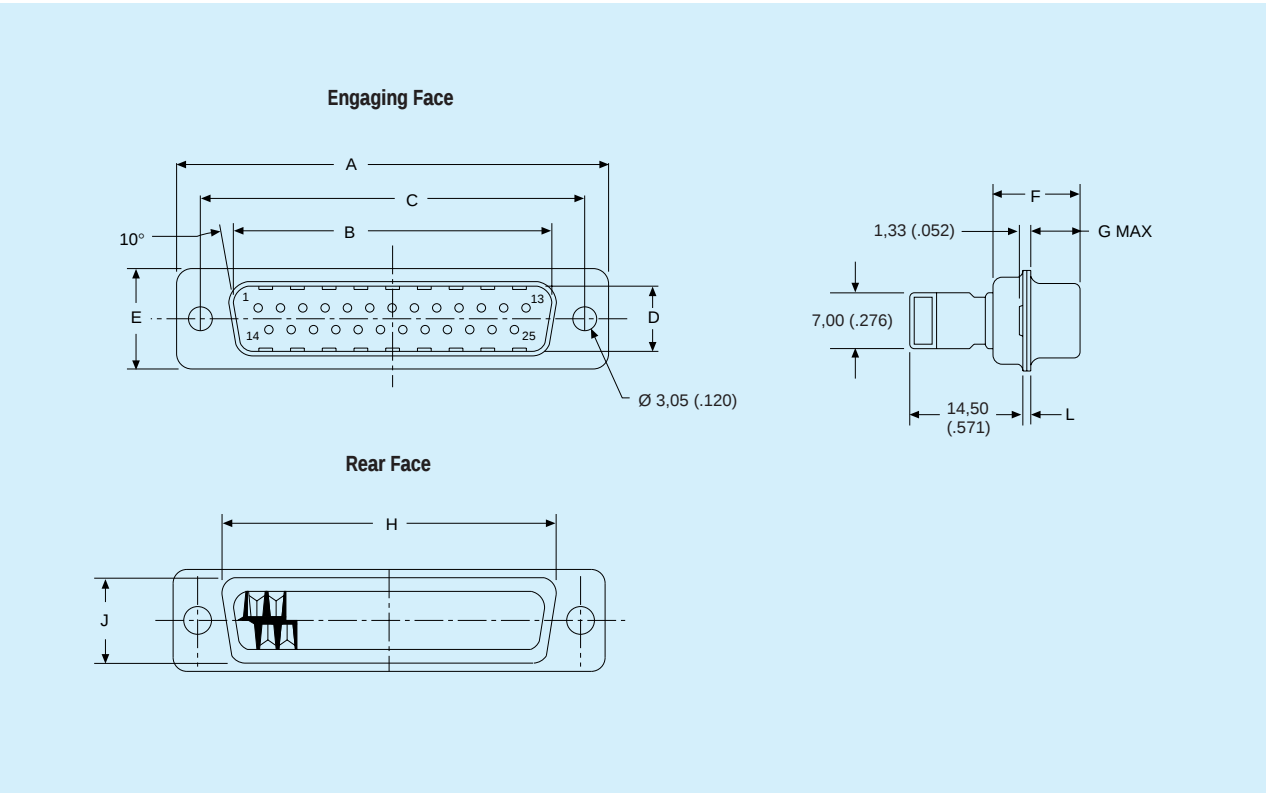
Plug

Part Numbers

Shell Size	Layout	Through Hole	Dual Float Mount	Clinch Nut # 4-40 UNC	Through Hole & Shield Can Kit	Clinch Nut # 4-40 UNC & Shield Can Kit
E	9	DEW9P*	DEWY9P*	DEWE9P*	DEW9P*G	DEWE9P*G
A	15	DAW15P*	DAWY15P*	DAWE15P*	DAW15P*G	DAWE15P*G
B	25	DBW25P*	DBWY25P*	DBWE25P*	DBW25P*G	DBWE25P*G
C	37	DCW37P*	DCWY37P*	DCWE37P*	DCW37P*G	DCWE37P*G

Note: *Insert contact type. Example: DEW9P1.
For contacts with 0.76 µm Gold add -A176. Example: DEW9P1-A176

Contact Types	Wire Accomodation
1	28 AWG / 30 AWG
2	22 AWG / 26 AWG
3	20 AWG / 22 AWG



Dimensions

Shell size	A ±0,38 (.015)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,38 (.015)	F ±0,25 (.010)	G max.	H ±0,25 (.010)	J ±0,25 (.010)	L ±0,25 (.010)
E	30,81 (1.213)	16,92 (.666)	24,99 (.984)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,05 (.238)	19,27 (.759)	10,71 (.422)	0,76 (.030)
A	39,14 (1.541)	25,25 (.994)	33,32 (1.312)	8,36 (.329)	12,55 (.494)	10,72 (.422)	6,05 (.238)	27,50 (1.038)	10,71 (.422)	0,76 (.030)
B	53,04 (2.088)	38,96 (1.534)	47,04 (1.852)	8,36 (.329)	12,55 (.494)	10,82 (.426)	5,99 (.236)	41,27 (1.625)	10,71 (.422)	0,99 (.039)
C	69,32 (2.729)	55,42 (2.182)	63,50 (2.500)	8,36 (.329)	12,55 (.494)	10,82 (.426)	5,99 (.236)	57,70 (2.272)	10,71 (.422)	0,99 (.039)

Receptacle

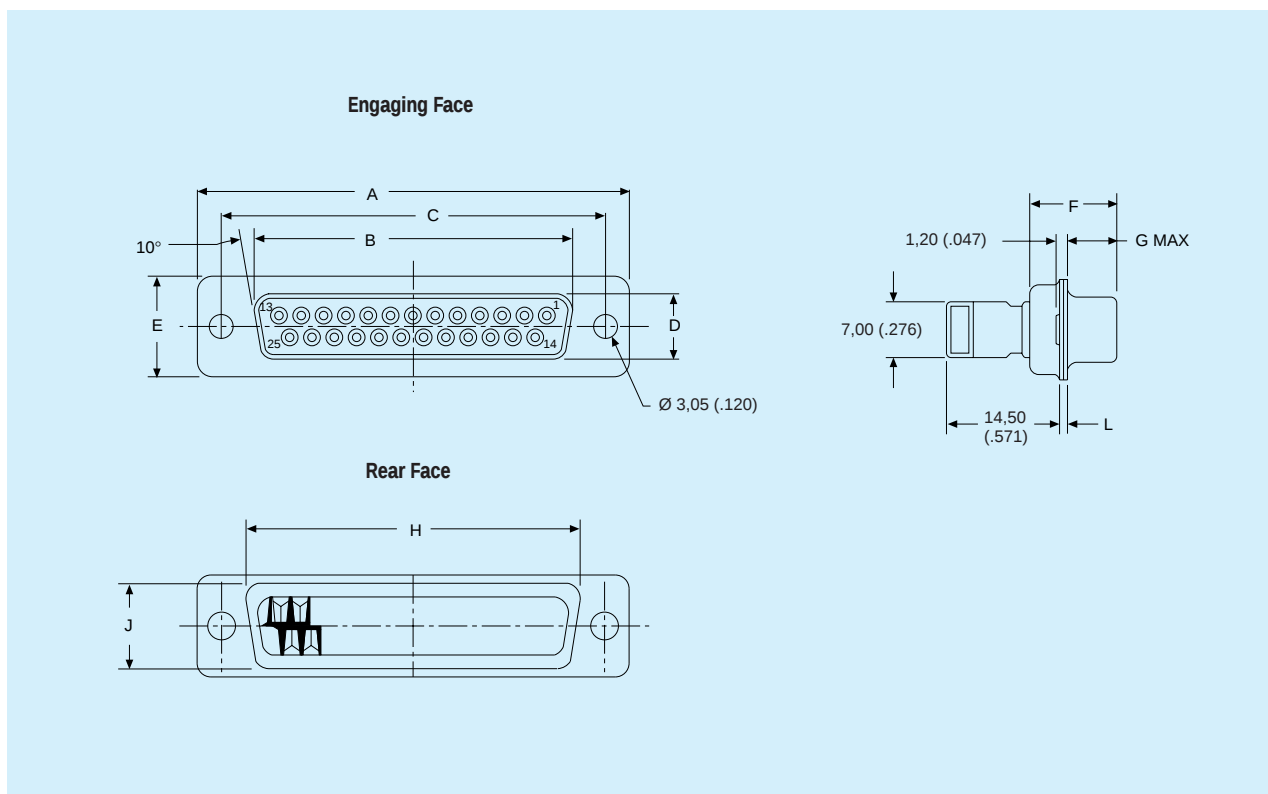
Part Numbers

Shell Size	Layout	Through Hole	Dual Float Mount	Clinch Nut # 4-40 UNC	Through Hole & Shield Can Kit	Clinch Nut # 4-40 UNC & Shield Can Kit
E	9	DEW9S*	DEWY9S*	DEWE9S*	DEW9S*G	DEWE9S*G
A	15	DAW15S*	DAWY15S*	DAWE15S*	DAW15S*G	DAWE15S*G
B	25	DBW25S*	DBWY25S*	DBWE25S*	DBW25S*G	DBWE25S*G
C	37	DCW37S*	DCWY37S*	DCWE37S*	DCW37S*G	DCWE37S*G

Note: *Insert contact type. Example: DEW9S1.

For contacts with 0.76 µm Gold add -A176. Example: DEW9S1-A176

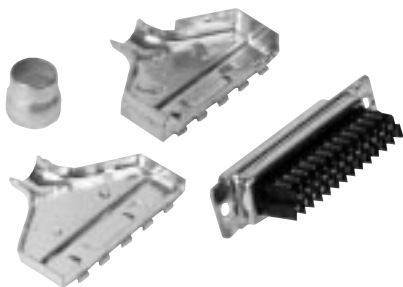
Contact Types	Wire Accomodation
1	28 AWG / 30 AWG
2	22 AWG / 26 AWG
3	20 AWG / 22 AWG



Dimensions

Shell size	A	B	C	D	E	F	G	H	J	L
	±0,38 (.015)	±0,13 (.005)	±0,13 (.005)	±0,13 (.005)	±0,38 (.015)	±0,25 (.010)	G max.	±0,25 (.010)	±0,25 (.010)	±0,25 (.010)
E	30,81 (1.213)	16,33 (.643)	24,99 (.984)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,30 (.248)	19,27 (.759)	10,71 (.422)	0,76 (.030)
A	39,14 (1.541)	24,66 (.971)	33,32 (1.312)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,30 (.248)	27,50 (1.038)	10,71 (.422)	0,76 (.030)
B	53,04 (2.088)	38,38 (1.511)	47,04 (1.852)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,30 (.248)	41,27 (1.625)	10,71 (.422)	0,76 (.030)
C	69,32 (2.729)	54,84 (2.159)	63,50 (2.500)	7,90 (.311)	12,55 (.494)	10,90 (.429)	6,30 (.248)	57,70 (2.272)	10,71 (.422)	0,76 (.030)

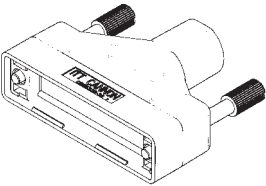
Shield Can Kit



Shield can kit: available for shell sizes E & B
(For other shell sizes, consult factory).

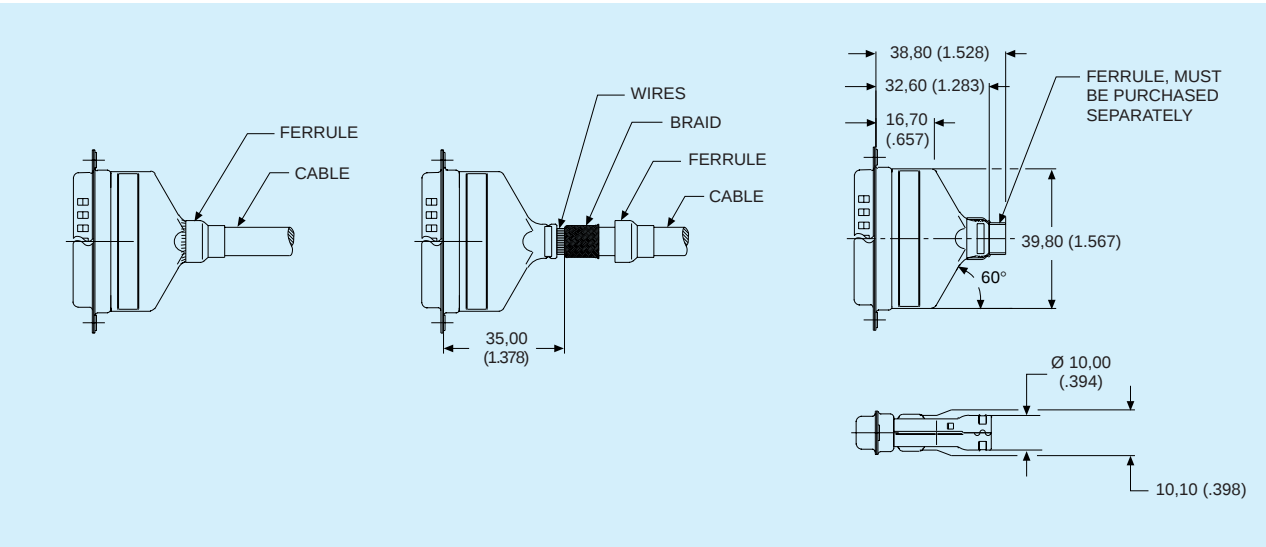
Ferrule

Cable Diameter	Ferrule Diameter A	Ferrule Part Number	Crimp Tool Part Number	Crimp Tool Position
4,8 / 5,5	6.25 (.246)	304-8810-000	D115433-1	B
5,5 / 6,2	6.25 (.246)	304-8810-000	D115433-1	A
6,2 / 7,2	8.2 (.323)	304-8811-000	D115433-2	B
7,2 / 8,2	8.2 (.323)	304-8811-000	D115433-2	A
8,2 / 9,5	9.5 (.374)	304-8812-000	D115433-3	B
9,5 / 11,1	11.5 (.452)	304-8813-000	D115433-3	A

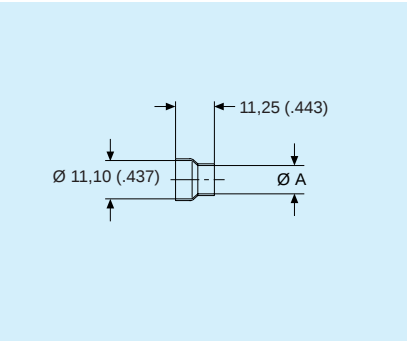


Materials and Finishes

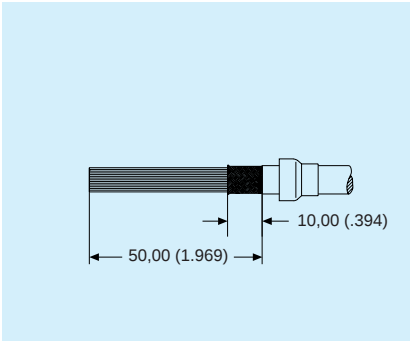
Shield Can and Ferrule	
Material	Steel
Finish	Tin



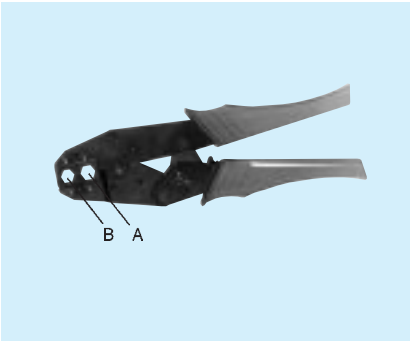
Ferrule



Wire Trim Dimensions



Crimp Tool Positions



Discrete Wire IDC Contacts

Contacts

Contact Types	1	2	3
Pin	330-8753-101	330-8753-102	330-8753-103
Socket	330-8754-101	330-8754-102	330-8754-103

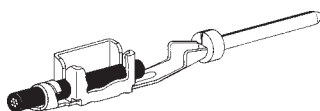
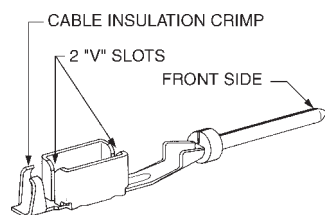
Solid Cable

Wire Size	28 AWG	30 AWG	22 AWG	24 AWG	26 AWG	20 AWG	22 AWG
Section mm ²	0.08	0.05	0.34	0.22	0.12	0.60	0.34
Internal dia. mm max.	0.32	0.26	0.62	0.51	0.40	0.88	0.62
External dia. mm max.	1.30	1.20	1.45	1.45	1.40	1.45	1.45

Stranded Cable

Wire Size	28 AWG	30 AWG	22 AWG	24 AWG	26 AWG	20 AWG	22 AWG
Section mm ²	0.09	0.05	0.34	0.22	0.12	0.60	0.34
Composition	7 x 0.13	7 x 0.10	7 x 0.25	7 x 0.20	7 x 0.15	19 x 0.20	7 x 0.25
Internal cable dia. mm max.	0.40	0.30	0.75	0.60	0.45	0.97	0.75
External cable dia. mm max.	1.30	1.20	1.45	1.45	1.40	1.45	1.45

Insulation Displacement Connection Concept



Tooling

Extraction Tool



Part Number

DW115394

Hand Crimp Tool



Part Number

Standard Tool: DW115394-1

Automatic Tool: DW115394-2

Tool Support: DW115394-20

Row by Row Hand Lever Tool



Part Number

DW115394-550

Row by Row Pneumatic Press

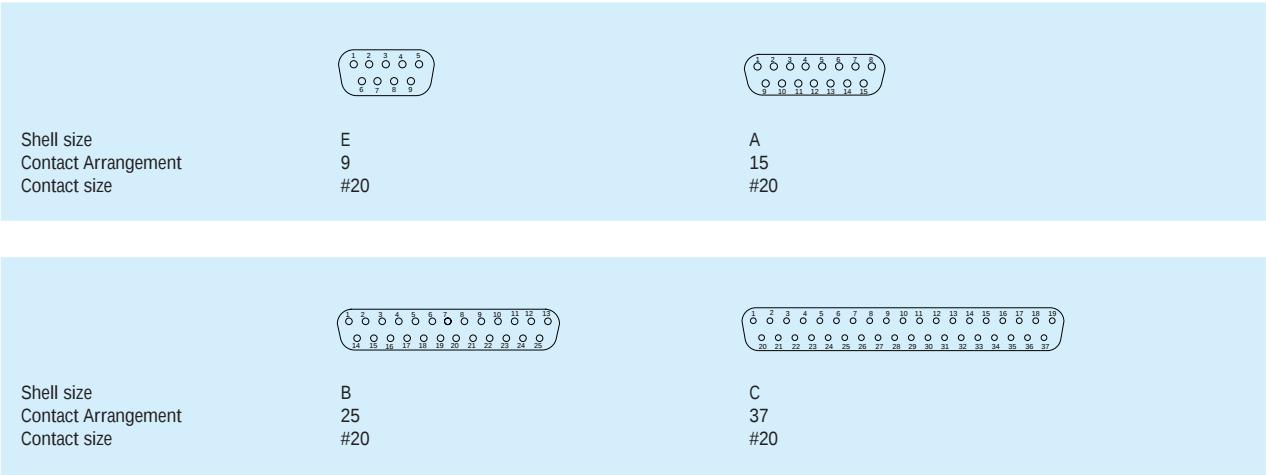


Part Number

DW115394-501

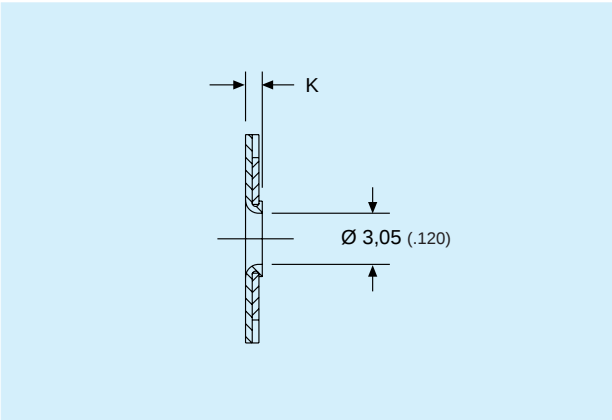
Contact Cavity Arrangements

Face View Pin Insert



Hardware Views

Through Hole (Eyelet)



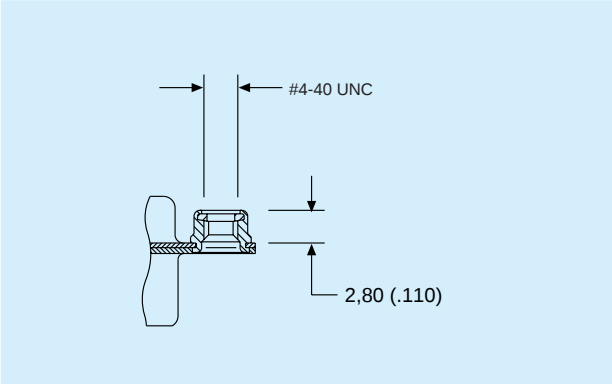
Dimensions – Plug

Shell Size	K	
	$\pm 0,318 \text{ (.0125)}$	$\pm 0,25 \text{ (.010)}$
E	1,206 (.0475)	–
A	1,206 (.0475)	–
B	–	1,52 (.060)
C	–	1,52 (.060)

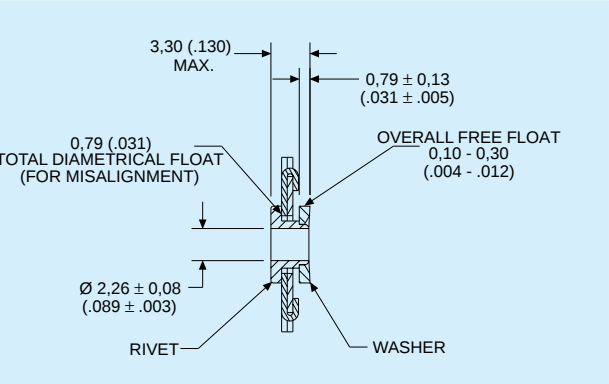
Dimensions – Receptacle

Shell Size	K	
	$\pm 0,318 \text{ (.0125)}$	
E	1,206 (.0475)	
A	1,206 (.0475)	
B	1,206 (.0475)	
C	1,206 (.0475)	

Clinch Nut (E)

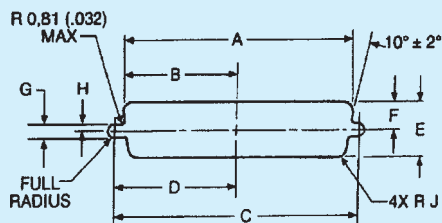


Dual Float Mount (Y)

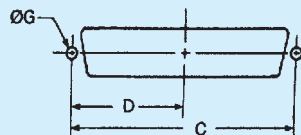


Panel Cutouts

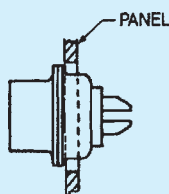
Standard Cutout



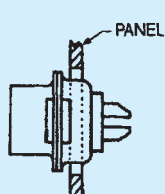
Rear Mounting Cutout (optional)



Front Panel Mounting

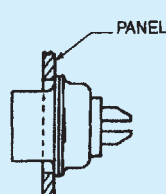


Standard Shell

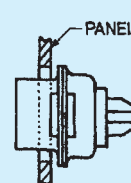


Dual Float Mount Shell

Rear Panel Mounting



Standard Shell



Dual Float Mount Shell

Standard Shell

Shell Size	Mounting Method	A ±0,13 (.005)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,13 (.005)	F ±0,13 (.005)	G ±0,05 (.002)	H 0,05 (.002)	J ±0,05 (.002)
E	Front	22,19 (.874)	11,09 (.437)	24,99 (.984)	12,49 (.492)	13,03 (.513)	6,52 (.257)	3,04 (.120)	1,52 (.060)	2,10 (.083)
	Rear	20,47 (.806)	10,23 (.403)	24,99 (.984)	12,49 (.492)	11,40 (.449)	5,71 (.225)	3,04 (.120)	1,52 (.060)	3,35 (.132)
A	Front	30,53 (1.202)	15,26 (.601)	33,32 (1.312)	16,66 (.656)	13,03 (.513)	6,52 (.257)	3,04 (.120)	1,52 (.060)	2,10 (.083)
	Rear	28,80 (1.134)	14,40 (.567)	33,32 (1.312)	16,66 (.656)	11,40 (.449)	5,71 (.225)	3,04 (.120)	1,52 (.060)	3,35 (.132)
B	Front	44,27 (1.743)	22,14 (.872)	47,04 (1.852)	23,52 (.926)	13,03 (.513)	6,52 (.257)	3,04 (.120)	1,52 (.060)	2,10 (.083)
	Rear	42,51 (1.674)	21,25 (.837)	47,04 (1.852)	23,52 (.926)	11,40 (.449)	5,71 (.225)	3,04 (.120)	1,52 (.060)	3,35 (.132)
C	Front	60,73 (2.391)	30,37 (1.196)	63,50 (2.500)	31,75 (1.250)	13,03 (.513)	6,52 (.257)	3,04 (.120)	1,52 (.060)	2,10 (.083)
	Rear	59,08 (2.326)	29,54 (1.163)	63,50 (2.500)	31,75 (1.250)	11,40 (.449)	5,71 (.225)	3,04 (.120)	1,52 (.060)	3,35 (.132)

Dual Float Mount Shell

Shell Size	Mounting Method	A ±0,13 (.005)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,13 (.005)	F ±0,13 (.005)	G ±0,05 (.002)	H 0,05 (.002)	J ±0,05 (.002)
E	Front	23,01 (.906)	11,50 (.453)	24,99 (.984)	12,49 (.492)	13,84 (.545)	6,93 (.273)	2,23 (.088)	1,11 (.044)	2,10 (.083)
	Rear	21,28 (.838)	10,64 (.419)	24,99 (.984)	12,49 (.492)	12,21 (.481)	6,12 (.241)	2,23 (.088)	1,11 (.044)	3,35 (.132)
A	Front	31,34 (1.234)	15,67 (.617)	33,32 (1.312)	16,66 (.656)	13,84 (.545)	6,93 (.273)	2,23 (.088)	1,11 (.044)	2,10 (.083)
	Rear	29,61 (1.166)	14,80 (.583)	33,32 (1.312)	16,66 (.656)	12,21 (.481)	6,12 (.241)	2,23 (.088)	1,11 (.044)	3,35 (.132)
B	Front	45,08 (1.775)	22,55 (.888)	47,04 (1.852)	23,52 (.926)	13,84 (.545)	6,93 (.273)	2,23 (.088)	1,11 (.044)	2,10 (.083)
	Rear	43,33 (1.706)	21,66 (.853)	47,04 (1.852)	23,52 (.926)	12,21 (.481)	6,12 (.241)	2,23 (.088)	1,11 (.044)	3,35 (.132)
C	Front	61,54 (2.423)	30,78 (1.212)	63,50 (2.500)	31,75 (1.250)	13,84 (.545)	6,93 (.273)	2,23 (.088)	1,11 (.044)	2,10 (.083)
	Rear	59,79 (2.354)	29,89 (1.177)	63,50 (2.500)	31,75 (1.250)	12,21 (.481)	6,12 (.241)	2,23 (.088)	1,11 (.044)	3,35 (.132)

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