

SECTION 5

D-SUB HOODS AND ACCESSORIES





D-SUB HOODS AND ACCESSORIES
EMI / RFI shielding

D-SUB Metal Hoods, Zinc die-cast, surface nickel plated
Straight cable entry, with cable sleeve

4-40 UNC short screw

No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09			31.7	30		5	E202784	165X17409X
15			40	32		5		165X17419X
25	1	/	53.7	35	15	7		165X17429X
37			70.2	41		7		165X17439X
50			67.8	17.7	9.3	7		165X17449X

On request:
• M3 thread

4-40 Unc jack screw

No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09			31.7	45.1		5	E202784	165X17309X
15			40	48.2		5		165X17319X
25	1	/	53.7	51.3	15	7		165X17329X
37			70.2	54.4		7		165X17339X
50			67.8	57.5	17.7	9.3		165X17349X

D-SUB Metal Hoods, Zinc die-cast, surface nickel plated
Side cable entry, with cable sleeve

4-40 UNC short screw

No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09			31.8	39.5		5	E202784	165X17559X
15			40.3	41		5		165X17569X
25	/	1	54	45	15.4	7		165X17579X
37			70.2	48		7		165X17589X
50			67.8	18.5	9.3	7		165X17599X

D-SUB HOODS AND ACCESSORIES
EMI / RFI shielding

D-SUB Metal Hoods, Zinc die-cast
Variable cable entries

Cable clamp must be ordered separately
On request:
• Crimp flange

Type 1 without jack screws

		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure D [mm]	UL-File	Part No.
	09	/			32			E202784	165X10819X
	15				39.3	14.8	12.1		165X10829X
	25		2		53.2				165X10839X
	37		1		69.5				165X10849X
	50				67	17.8	14.6		165X10859X

Type 2 without jack screws

	09	/			32			E202784	165X11159X
	15				39.3	14.8	12.1		165X10869X
	25		2		53.2				165X10879X
	37		1		69.5				165X10889X
	50				67	17.8	14.6		165X10899X

Cable clamp

		No. of poles	Cable diameter	Part No.
	09-37		3-12 mm	160X11189X
	50		5-14 mm	160X11199X

D-SUB HOODS AND ACCESSORIES
EMI / RFI shielding


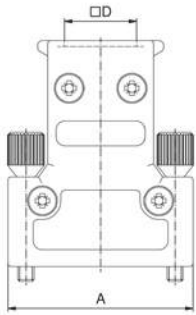
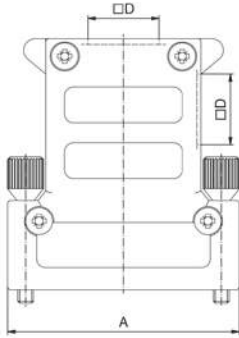
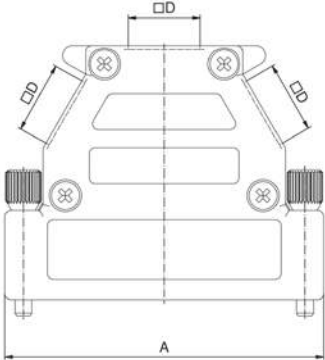
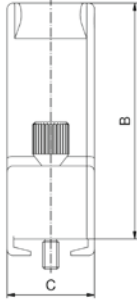
D-SUB Metal Hoods, Zinc die-cast
Variable cable entries

Type 1 Jack screws

No. of poles
Number of straight cable entries
Number of side cable entries
Measure A [mm]
Measure B [mm]
Measure C [mm]
Measure D [mm]
UL-File

Cable clamp must be ordered separately
On request:
• M3 thread
• Crimp flange

Part No.

    	09	/	31	35.5					165X11609X
	15	1	39.4		14.8	12.1			165X11619X
	25	1	53.2	40			E202784		165X11629X
	37	2	69.6						165X11639X
	50		67	42	17.8	14.6			165X11649X

D-SUB HOODS AND ACCESSORIES
EMI / RFI shielding


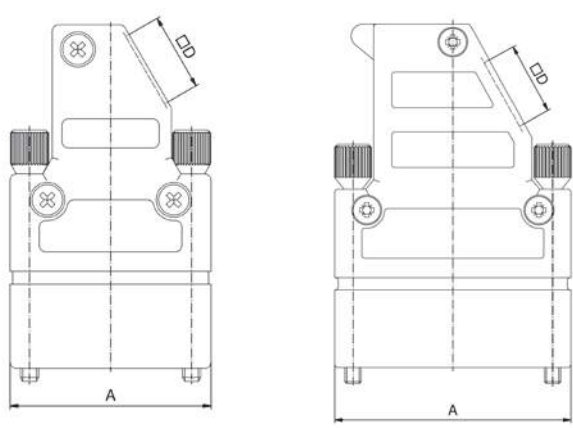
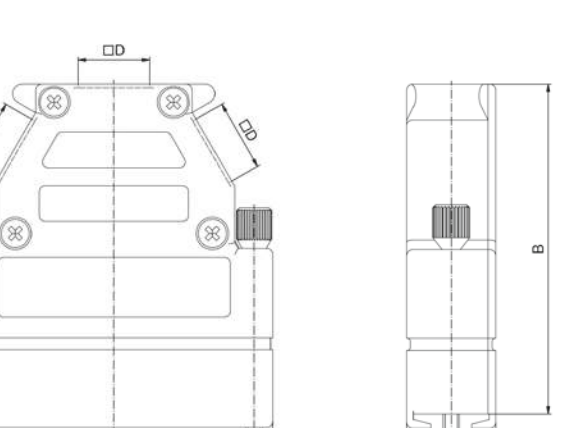
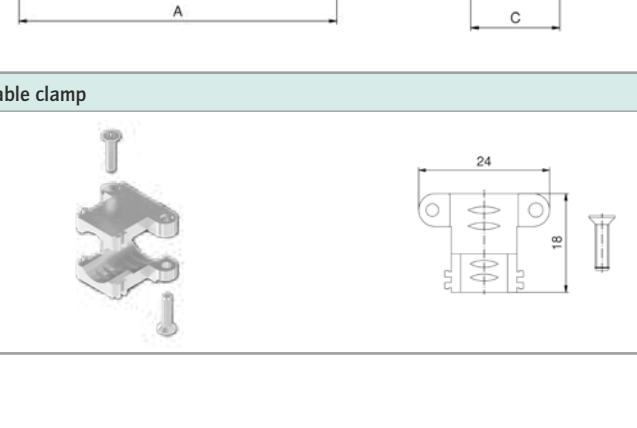

D-SUB Metal Hoods, Zinc die-cast
Variable cable entries

Cable clamp must be ordered separately
On request:
• M3 thread
• Crimp flange

Type 2 Jack screws


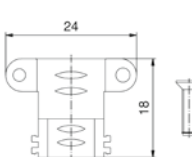
No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File
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Part No.

								09	/	31	50.5				165X14409X
								15	1	39.4					165X14419X
								25	1	53.2	55	14.8	12.1	E202784	165X14429X
								37	2	69.6					165X14439X
								50		67	57	17.8	14.6		165X14449X

Cable clamp

No. of poles Cable diameter

		09-37	3-12 mm	160X11189X
		50	5-14 mm	160X11199X

D-SUB HOODS AND ACCESSORIES
EMI / RFI shielding

D-SUB Metal Hoods, Zinc die-cast
Variable cable entries

Cable clamp must be ordered separately
On request:
• Crimp flange

Slide lock

No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure D [mm]	UL-File
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Part No.

	09	/	32			E202784	165X11659X
	15		39.3				165X11669X
	25	2	53.2	14.8	12.1		165X11679X
	37	1	69.5				165X11689X
	50		67	17.8	14.6		165X11699X

Cable clamp

No. of poles *Cable diameter*

	09-37	3-12 mm	160X11189X
	50	5-14 mm	160X11199X

Locking hooks for slide lock

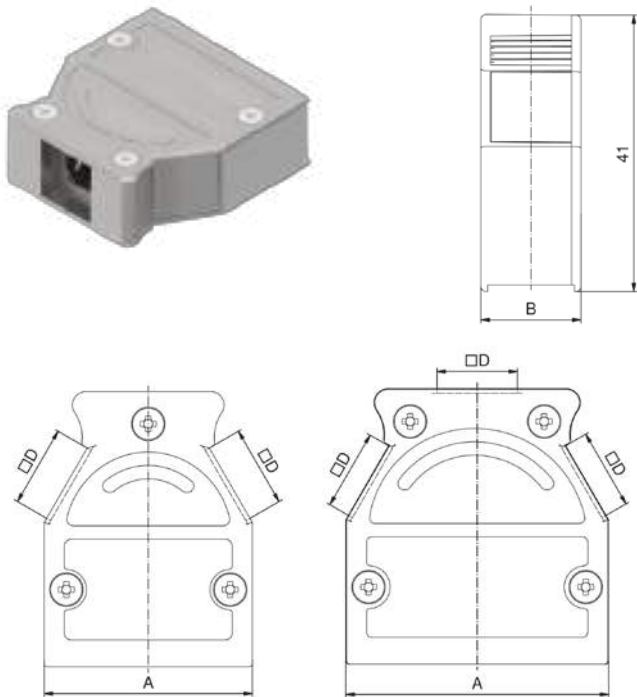

	09-37		165X10119X
	50		165X10129X

D-SUB HOODS AND ACCESSORIES
EMI / RFI shielding

D-SUB Metal Hoods, Zinc die-cast
Variable cable entries

Without jack screw, internal ground

Cable clamp must be ordered separately

Without jack screw, internal ground		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure D [mm]	UL-File	Part No.
	09	/		31				E202784	600X51109X
	15			39		14.8	12 x 0.9		600X51115X
	25	2		53					600X51125X
	37	1		69.5					600X51137X
	50			67	17.6	14.3 x 11.6			600X51150X
Cable clamp		No. of poles	Cable diameter						
	09-37		3-12 mm		160X10139X				
	50		5-14 mm		160X10149X				

D-SUB HOODS AND ACCESSORIES

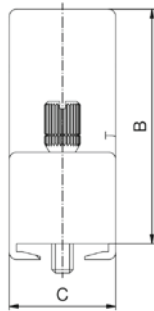
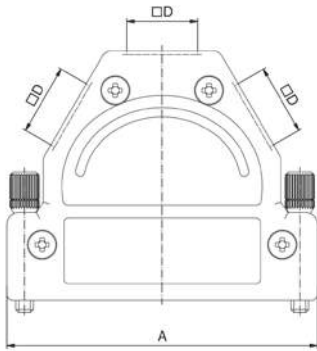
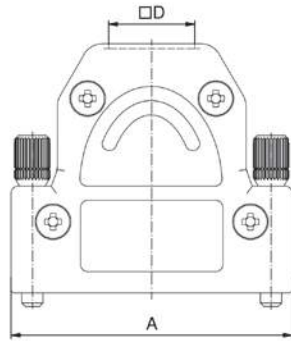
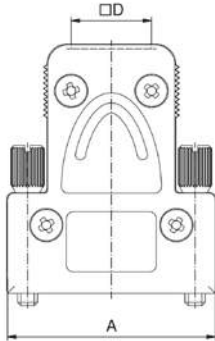
D-SUB Metal Hoods, Zinc die-cast Variable cable entries

Cable clamp must be ordered separately
On request:
• M3 thread

4-40 UNC jack screw

No. of poles
Number of straight cable entries
Number of side cable entries
Measure A [mm]
Measure B [mm]
Measure C [mm]
Measure D [mm]
UL-File

Part No.



09

15

25

1

1

2

31

39

53

37.2

35.2

42.7

15

11 x 9.00

11.5 x 9.00

8 x 9.00

E202784

14.8

600X51209X

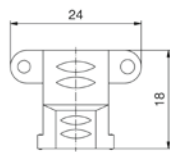
600X51215X

600X51225X

Cable clamp

No. of poles

Cable diameter



09-37

3-12 mm

160X10139X

D-SUB HOODS AND ACCESSORIES
EMI / RFI shielding

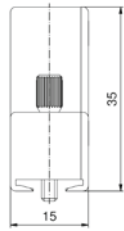
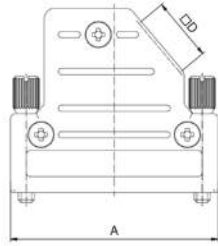
D-SUB Metal Hoods, Zinc die-cast
Side cable entry, jack screws

Cable clamp must be ordered separately
On request:
• M3 thread

With jack screw, internal ground

No. of poles
Number of straight cable entries
Number of side cable entries
Measure A [mm]
Measure D [mm]
UL-File

Part No.



09

15

25

/

1

31

39

53

10 x 9.2

12 x 9.2

E202784

600X51309X

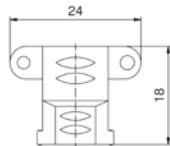
600X51315X

600X51325X

Cable clamp

No. of poles

Cable diameter



09-25

3-12 mm

160X10139X

D-SUB HOODS AND ACCESSORIES
EMI / RFI shielding


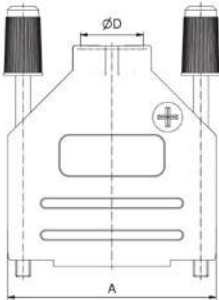
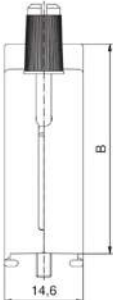
D-SUB Metal Hoods, Zinc die-cast, surface nickel plated
Straight cable entry, plastic strain relief

Attenuation factor: > 40 dB between 30 Mhz and 1 GHz
On request:
• M3 thread

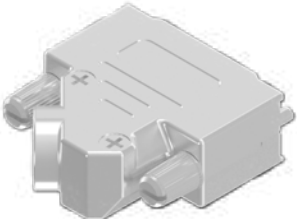
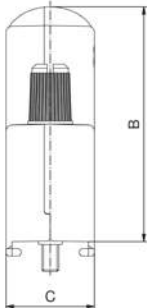
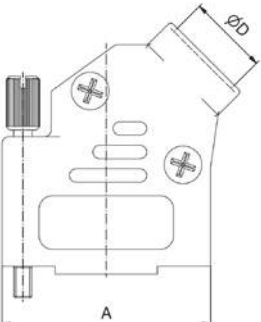
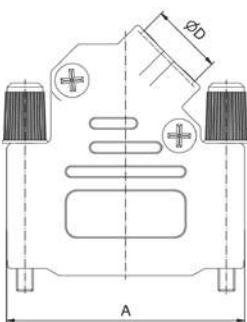
4-40 UNC jack screw

No. of poles
Number of straight cable entries
Number of side cable entries
Measure A [mm]
Measure B [mm]
Measure D [mm]
UL-File

Part No.

  	09	1	/	31.2	38.3	4 - 13	E202784	165X02609X
	15			39.3	40.5			165X02619X
	25			53.4	47.8			165X02629X
	37			69.9	52.2			165X02639X

4-40 UNC jack screw


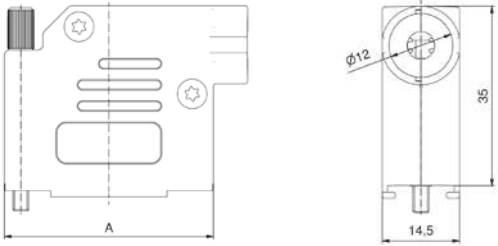
   	09	/	1	31	36.2	4 - 13	E202784	165X02689X
	15			39.5				165X02699X
	25			53.2	40.2			165X02709X
	37			69.7				165X02719X

D-SUB HOODS AND ACCESSORIES
EMI / RFI shielding

D-SUB Metal Hoods, Zinc die-cast, surface nickel plated
Side cable entry, plastic strain relief

4-40 UNC jack screw

Attenuation factor: > 40 dB between 30 Mhz and 1 GHz
On request:
• M3 thread


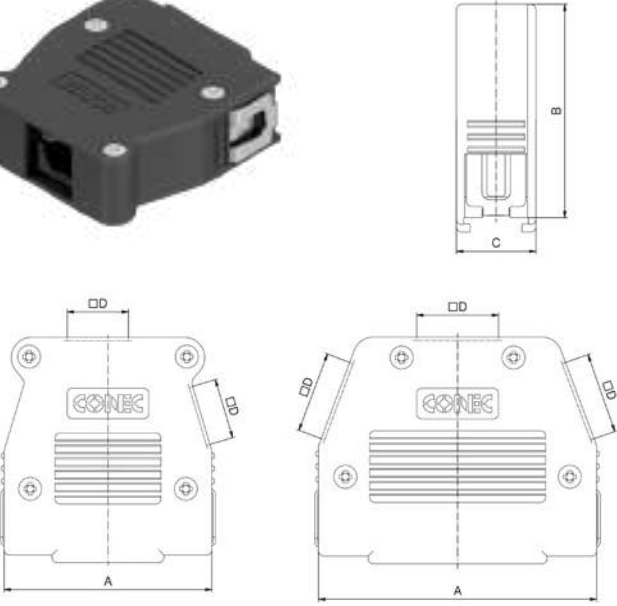
		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Part No.
		09			37.7	16-002730
		15	/	1	46	16-002740

D-SUB HOODS AND ACCESSORIES
CONEC SnapLock

D-SUB Plastic Hoods, unshielded
Variable cable entries

SnapLock, plastic black

For hood to hood connection please order connection bolts separately

		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Part No.
		09			32.5			8.5	16-001810
		15		1	40.8			10	16-001820
		25	1		54.4		15.4		16-001830
		37		2	70.9			11	16-001840
		50			68.5		18.4	12	16-001850

D-SUB HOODS AND ACCESSORIES
CONEC SnapLock

D-SUB Plastic Hoods, shielded
Variable cable entries

SnapLock, plastic metallized

For hood to hood connection please order connection bolts separately

SnapLock, plastic metallized		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Part No.
	09			1	32.5			8.5	16-001750
	15			1	40.8			10	16-001760
	25	1			54.4	41.5	15.4		16-001770
	37			2	70.9			11	16-001780
	50				68.5		18.4	12	16-001790

D-SUB HOODS AND ACCESSORIES
CONEC SnapLock

Kit Encoding Connection bolts for SnapLock

Locking Kit hood-to-hood

For hood to hood connection please order connection bolts separately

Locking Kit hood-to-hood		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Part No.
									16-002200


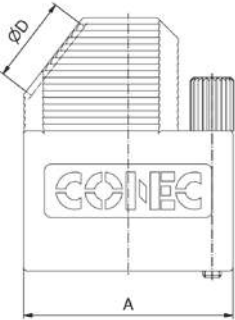
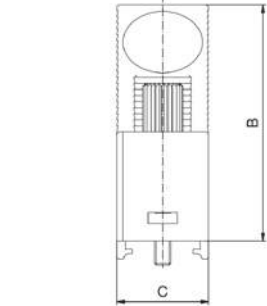
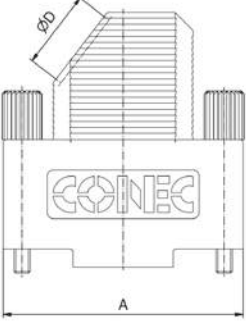
D-SUB HOODS AND ACCESSORIES

D-SUB Plastic Hoods, unshielded Side cable entry


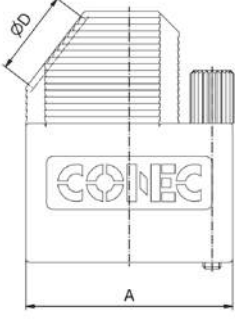
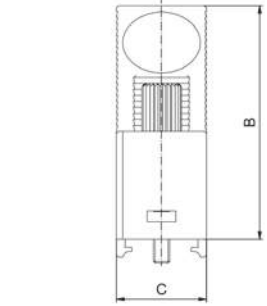
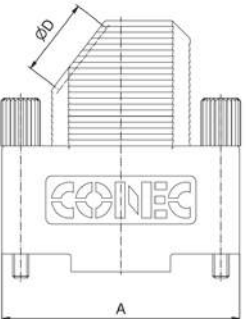
Plastic black, jack screws with plastic head 4-40 UNC

No. of poles
Number of straight cable
entries
Number of side cable entries
Measure A [mm]
Measure B [mm]
Measure C [mm]
Measure D [mm]
UL-File

Part No.

   	09			31.3			8	E202784	165X11709X
	15			39.62			9		165X11719X
	25	/	1	53.52	39.15	15	11		165X11729X
	37			69.8					165X11739X
	50			67.41	19	14.5			165X11749X

Plastic black, jack screws 4-40 UNC

   	09			31.3			8	E202784	165X00829A
	15			39.62		15	9		165X00839A
	25	/	1	53.52	39.15		11		165X00849A
	37			69.8					165X00859A
	50			67.41	19	14.5			165X00869A

D-SUB HOODS AND ACCESSORIES

D-SUB Plastic Hoods, unshielded Side cable entry

Plastic grey, jack screws with plastic head 4-40 UNC

		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
	09				31.3			8	E202784	165X16019X
	15				39.62			9		165X16029X
	25	/	1		53.52	39.15	15	11		165X16039X
	37				69.8					165X16049X
	50				67.41		19	14.5		165X16059X

Plastic grey, jack screws 4-40 UNC

	09				31.3			8	E202784	165X16069X
	15				39.62			9		165X16079X
	25	/	1		53.52	39.15	15	11		165X16089X
	37				69.8					165X16099X
	50				67.41		19	14.5		165X16109X

D-SUB HOODS AND ACCESSORIES


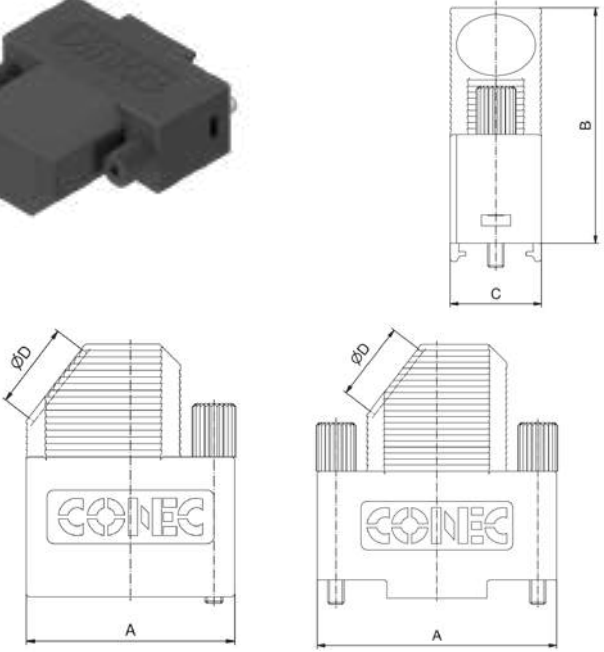
D-SUB Plastic Hoods, shielded Side cable entry

Attenuation factor at 10 MHz > 60dB


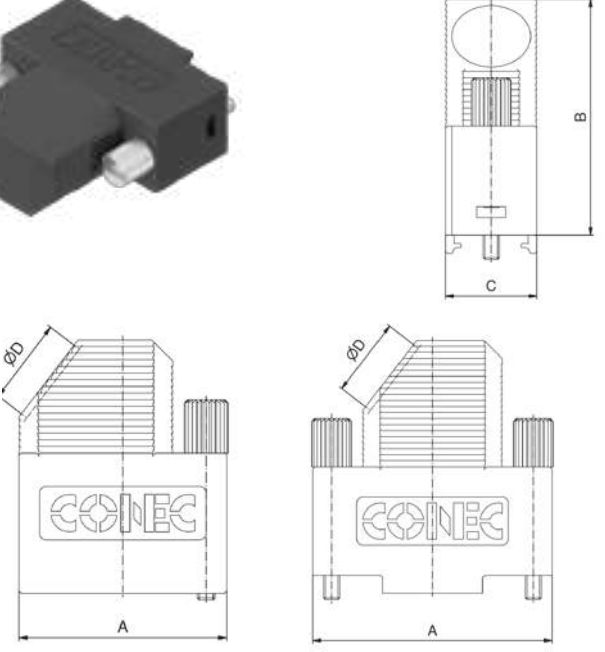
Plastic black, jack screws with plastic head 4-40 UNC

No. of poles
Number of straight cable
entries
Number of side cable entries
Measure A [mm]
Measure B [mm]
Measure C [mm]
Measure D [mm]
UL-File

Part No.

 	09			31.3			8	E202784	165X11759X
	15			39.62			9		165X11769X
	25	/	1	53.52	39.15	15	11		165X11779X
	37			69.8					165X11789X
	50			67.41	19	14.5			165X11799X

Plastic black, jack screws 4-40 UNC

 	09			31.3			8	E202784	165X00779A
	15			39.62			9		165X00789A
	25	/	1	53.52	39.15	15	11		165X00799A
	37			69.8					165X00809A
	50			67.41	19	14.5			165X00819A

D-SUB HOODS AND ACCESSORIES

D-SUB Plastic Hoods, shielded Side cable entry

Plastic grey, jack screws with plastic head 4-40 UNC

		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
	09			31.3				8	E202784	165X16119X
	15			39.62				9		165X16129X
	25 /	1	53.52	39.15	15			11		165X16139X
	37		69.8							165X16149X
	50		67.41	19	14.5					165X16159X

Plastic grey, jack screws 4-40 UNC


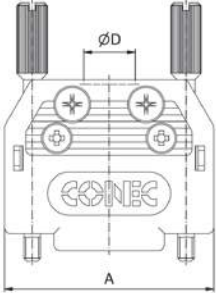
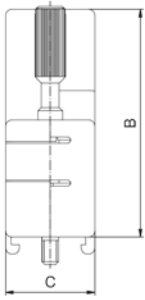
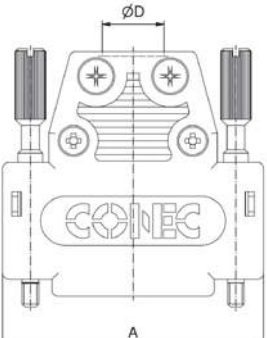
	09			31.3				8	E202784	165X16169X
	15			39.62				9		165X16179X
	25 /	1	53.52	39.15	15			11		165X16189X
	37		69.8							165X16199X
	50		67.41	19	14.5					165X16209X

Attenuation factor at 10 MHz > 60dB


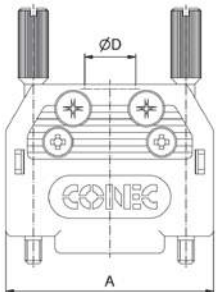
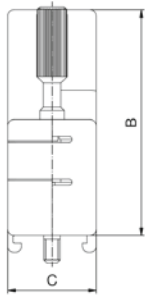
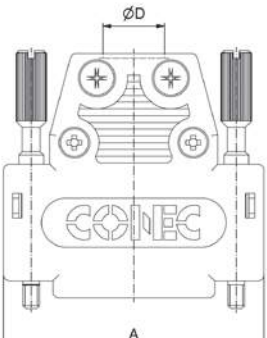
D-SUB HOODS AND ACCESSORIES

D-SUB Plastic Hoodss, two part Straight cable entry

Plastic black, 4-40 UNC jack screws

   		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09					34	25		8.5	E202784	165X10139X
15				42.3			10	165X10149X		
25	1	/	56	37	14.5		10.5	165X10159X		
37			72.5					165X10169X		
50			67	49.1	19.8	14		165X10179X		

Plastic metallized, 4-40 UNC jack screws


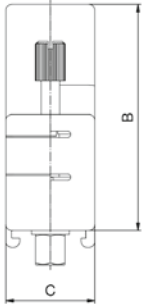
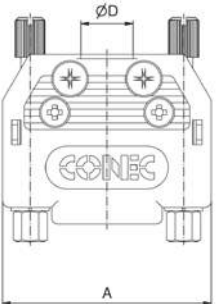
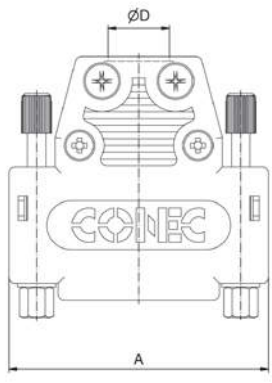
   		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09					34	25		8.5	E202784	165X10909X
15				42.3			10	165X10919X		
25	1	/	56	37	14.5		10.5	165X10929X		
37			72.5					165X10939X		
50			67	49.1	19.8	14		165X10949X		

Integrated cable clamping
On request:
• M3 thread


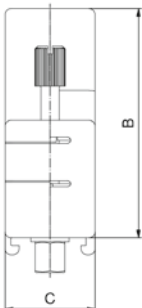
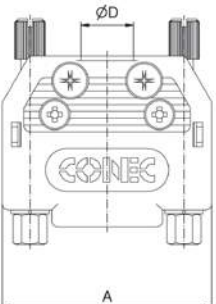
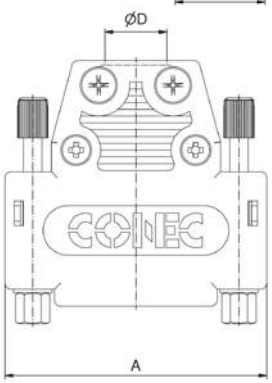
D-SUB HOODS AND ACCESSORIES

D-SUB Plastic Hoods, two part Straight cable entry, Cable-to-cable connection

Plastic black, 4-40 UNC jack screws 4-40 UNC hex bolt

								No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
								09	15	25	37	50	1	1	1	1
							09			34	25		8.5		165X10239X	
							15			42.3			10		165X10249X	
							25	1	/	56	37	14.5	10.5		165X10259X	
							37			72.5					165X10269X	
							50			67	49.1	19.8	14		165X10279X	

Plastic metallized, 4-40 UNC jack screws 4-40 UNC hex bolt

								No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
								09	15	25	37	50	1	1	1	1
							09			34	25		8.5		165X11009X	
							15			42.3			10		165X11019X	
							25	1	/	56	37	14.5	10.5		165X11029X	
							37			72.5					165X11039X	
							50			67	49.1	19.8	14		165X11049X	

Integrated cable clamping
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES
Suitable for Combination D-SUB Connectors

D-SUB Plastic Hoods, large internal space
Straight cable entry

Large internal space for crimp, high power and coaxial contacts
On request:
• M3 thread

Plastic black, 4-40 UNC short screw

No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09			32.9	39.5			E202784	165X13369X
15			41.2	45.5	16.3	11		165X13379X
25	1	/	54.9	52.5		12		165X13389X
37			71.4	55.5	18.7	15		165X13399X
50			69	55	19.5	14		165X13409X

Plastic black, 4-40 UNC jack screws

No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09			32.9	39.5			E202784	165X03309A
15			41.2	45.5	16.3	11		165X03319A
25	1	/	54.9	52.5		12		165X03329A
37			71.4	55.5	18.7	15		165X03339A
50			69	55	19.5	14		165X03349A

Plastic metallized, 4-40 UNC short screws

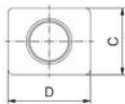
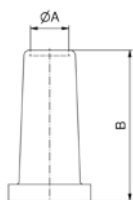
No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09			32.9	39.5			E202784	165X13469X
15			41.2	45.5	16.3	11		165X13479X
25	1	/	54.9	52.5		12		165X13489X
37			71.4	55.5	18.7	15		165X13499X
50			69	55	19.5	14		165X13509X

D-SUB HOODS AND ACCESSORIES
Suitable for Combination D-SUB Connectors

D-SUB Plastic Hoods, large internal space

Cable grommet for 9 - 50 pos. hood


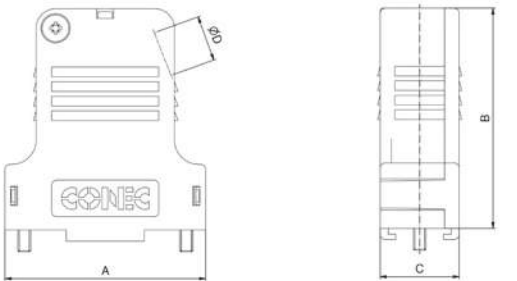
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Part No.
09/15	5	24.5	11.2	11.2	795-907600
25/37	7	27.5	12.2	15	795-907700
50	9.3	29.2	15	20	795-907800



D-SUB HOODS AND ACCESSORIES
Suitable for Combination D-SUB Connectors


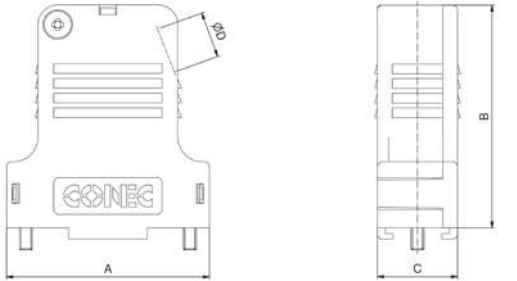
D-SUB Plastic Hoods, large internal space
Side cable entry

Plastic black, 4-40 UNC short screws

 		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09					32.9	39.5		8.6	E202784	165X13419X
15					41.2	45.5	16.4	9.4		165X13429X
25	/	1			54.9	52.5		13		165X13439X
37					71.4	18.8		15		165X13449X
50					69	19.6		14.9		165X13459X

Large internal space for crimp, high power and coaxial contacts
On request:
• M3 thread


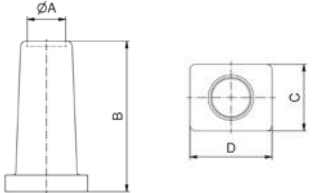
Plastic metallized, 4-40 UNC short screws

 		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09					32.9	39.5		8.6	E202784	165X13519X
15					41.2	45.5	16.4	9.4		165X13529X
25	/	1			54.9	52.5		13		165X13539X
37					71.4	18.8		15		165X13549X
50					69	19.6		14.9		165X13559X

D-SUB HOODS AND ACCESSORIES
Suitable for Combination D-SUB Connectors

D-SUB Plastic Hoods, large internal space
Side cable entry

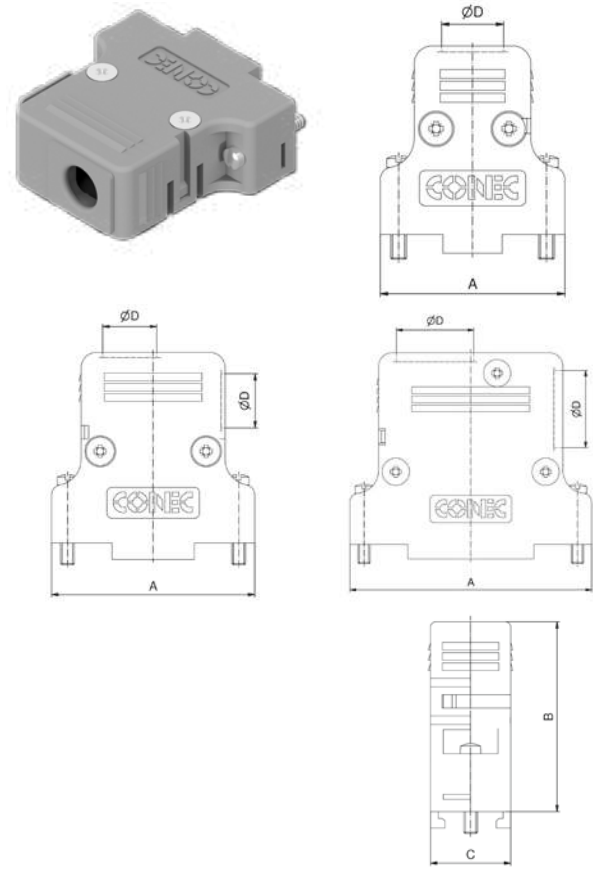
Cable grommet for 9 - 50 pos. hood

 		No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Part No.
09/15	5	24.5	11.2	11.2	795-907600		
25/37	7	27.5	12.2	15	795-907700		
50	9.3	29.2	15	20	795-907800		

D-SUB HOODS AND ACCESSORIES

D-SUB Plastic Hoods, fixed screws Variable cable entries

Plastic grey, 4-40 UNC short screws



No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File
09	/		31.2	31.8			
15			39.5	37		8	
25	1		53.2		15.6		E202784
37		1	69.7	42.2		10	
50			67.3	18.5	12.5		

Part No.

165X11869X

165X11879X

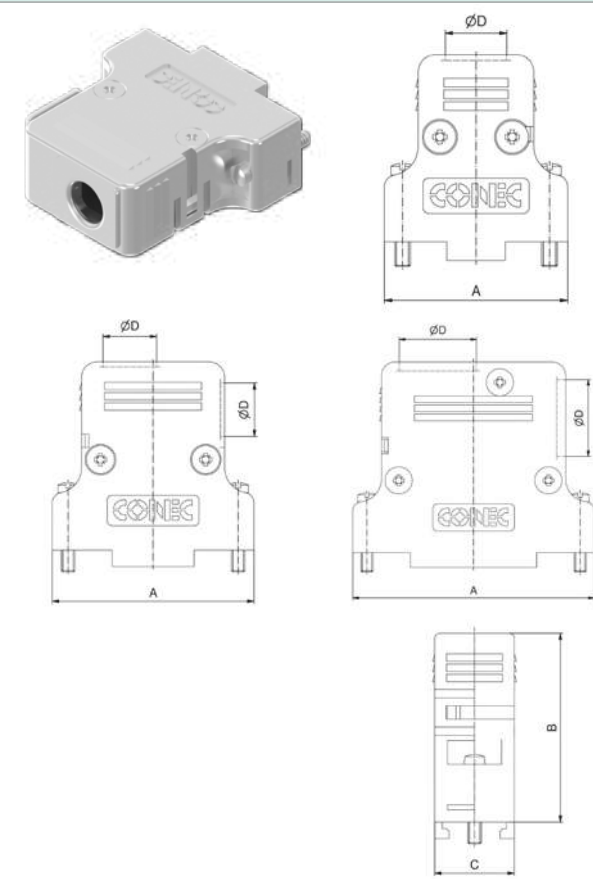
165X11889X

165X11899X

165X11909X

Integrated cable clamping

Plastic metallized, 4-40 UNC short screws



09	/		31.2	31.8			
15			39.5	37		8	
25	1		53.2		15.6		E202784
37		1	69.7	42.2		10	
50			67.3	18.5	12.5		

165X11919X

165X11929X

165X11939X

165X11949X

165X11959X

D-SUB HOODS AND ACCESSORIES


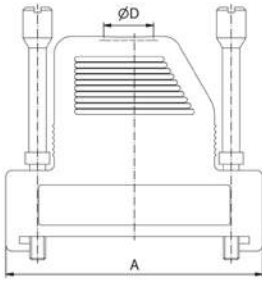
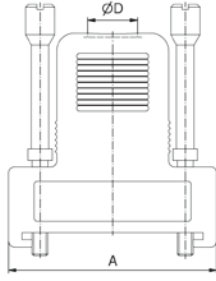
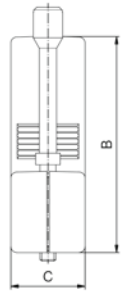
D-SUB Plastic Hoods, low profile Straight cable entry

Space-saving, side-by-side mounting
Packaging: in pack units as a single package


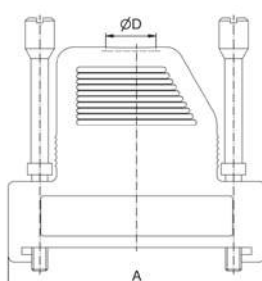
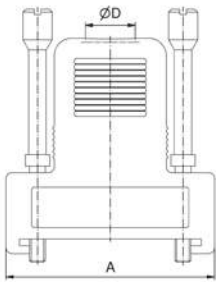
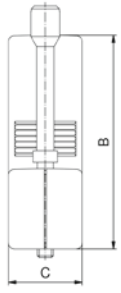
Plastic black, 4-40 UNC jack screws

No. of poles
Number of straight cable
entries
Number of side cable entries
Measure A [mm]
Measure B [mm]
Measure C [mm]
Measure D [mm]
UL-File

Part No.

 	 	09		35.8	37				165X16219X	
		15		44.1	38		8		165X16229X	
		25	1	/	57.9		12.6	E202784		165X16239X
		37			74.3	41		9		165X16249X

Plastic metallized, 4-40 UNC jack screws

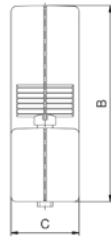
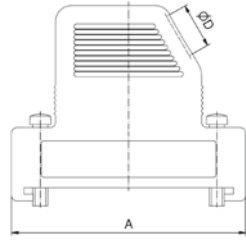
 	 	09		35.8	37				165X16299X	
		15		44.1	38		8		165X16309X	
		25	1	/	57.9		12.6	E202784		165X16319X
		37			74.3	41		9		165X16329X

D-SUB HOODS AND ACCESSORIES

D-SUB Plastic Hoods, low profile Side cable entry

Space-saving, side-by-side mounting
Packaging: in pack units as a single package

Plastic black, 4-40 UNC short screws

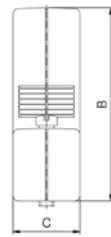
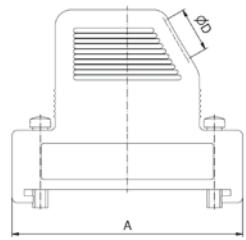
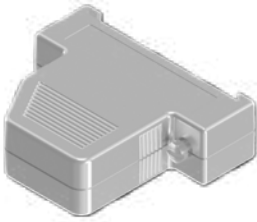


No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File
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Part No.

09			35.8	37				165X16379X
15			44.1	38		8	E202784	165X16389X
/	1				12.6			165X16399X
25			57.9	41		9		165X16409X
37			74.3					

Plastic metallized, 4-40 UNC short screws




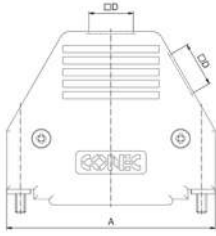
09			35.8	37				165X16459X
15			44.1	38		8	E202784	165X16469X
/	1				12.6			165X16479X
25			57.9	41		9		165X16489X
37			74.3					

D-SUB HOODS AND ACCESSORIES


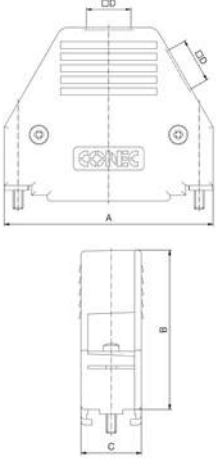
D-SUB Plastic Hoods, integrated strain relief Straight and side cable entry

Plastic black, 4-40 UNC short screws

Entries not in use are blanked off with blanking plugs

No. of poles		Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
Number of poles									
		1	1	09	32	36.7	6.3	E202784	165X11239X
				15	40	38.2	8		165X11249X
				25	54.2	42.2	10.5		165X11259X
				37	70.6	47.2	11.5		165X11269X
				50	68.2	20.6	13.7		165X16539X

Plastic black, slide lock version including spring


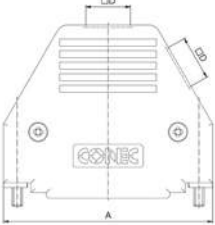
		1	1	09	32	36.7	6.3	E202784	165X11279X
				15	40	38.2	8		165X11289X
				25	54.2	42.2	10.5		165X11299X
				37	70.6	47.2	11.5		165X11309X
				50	68.2	20.6	13.7		165X16549X

D-SUB HOODS AND ACCESSORIES


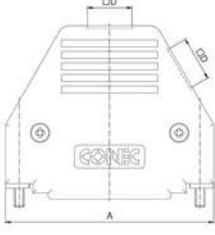
D-SUB Plastic Hoods, integrated strain relief Straight and side cable entry

Entries not in use are blanked off with blanking plugs

Plastic metallized, 4-40 UNC short screws



 	No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
	09			32	36.7		6.3	E202784	165X11319X
	15			40	38.2		8		165X11329X
	25	1	1	54.2	42.2	16.5	10.5		165X11339X
	37			70.6			11.5		165X11349X
	50			68.2	47.2	20.6	13.7		165X16559X

Plastic metallized, slide lock version including spring

 	No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
	09			32	36.7		6.3	E202784	165X11359X
	15			40	38.2		8		165X11369X
	25	1	1	54.2	42.2	16.5	10.5		165X11379X
	37			70.6			11.5		165X11389X
	50			68.2	47.2	20.6	13.7		165X16569X

Locking hooks for 9-50 pos. hood

No. of poles

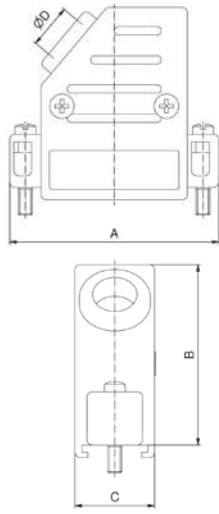
 	No. of poles	Part No.
		09-37
	50	165X16609X

D-SUB HOODS AND ACCESSORIES

D-SUB Plastic Hoods Side cable entry

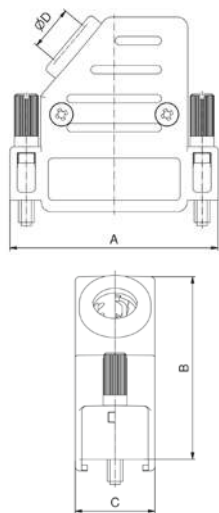
Packaging: in pack units as a single package

Plastic black, 4-40 UNC short screws



No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09			31.5	37		8.5	E202784	600X54009X
15			40		15.2			600X54015X
25	/	1	53.5			11		600X54025X
37			70	41				600X54037X
50			67.8	18.2	12			600X54050X

Plastic black, 4-40 UNC jack screws



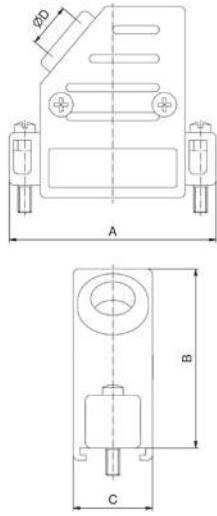
09			31.5	37		8.5	E202784	600X55009X
15			40		15.2			600X55015X
25	/	1	53.5			11		600X55025X
37			70	41				600X55037X
50			67.8	18.2	12			600X55050X

D-SUB HOODS AND ACCESSORIES

D-SUB Plastic Hoods Side cable entry

Packaging: in pack units as a single package

Plastic metallized, 4-40 UNC short screws



No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File
09			31.5	37		8.5	E202784
15			40		15.2		
25	/	1	53.5			11	
37			70	41			
50			67.8	18.2	12		

Part No.

600X56009X

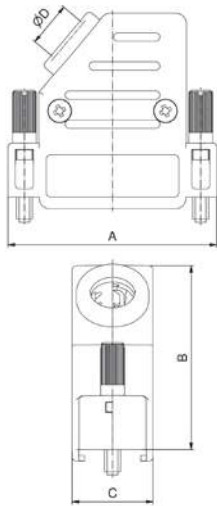
600X56015X

600X56025X

600X56037X

600X56050X

Plastic metallized, 4-40 UNC jack screws



09			31.5	37		8.5	E202784
15			40		15.2		
25	/	1	53.5			11	
37			70	41			
50			67.8	18.2	12		

600X57009X

600X57015X

600X57025X

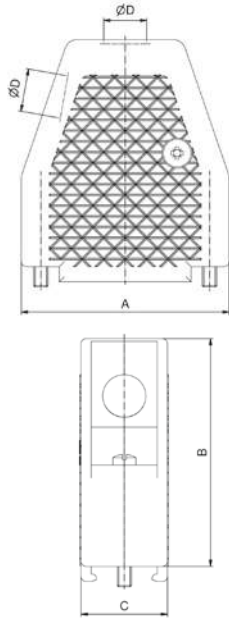
600X57037X

600X57050X

D-SUB HOODS AND ACCESSORIES

D-SUB Plastic Hoods Straight and side cable entry

Plastic black, 4-40 UNC short screws



No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File
09	1	1	33	45.5	17	7.5	E202784
15			41			8.5	
25			55	47		10.5	
37			71.3	51		11	
50			69	50		20	

Part No.

165X13019X

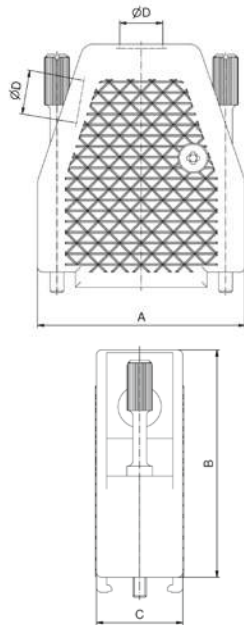
165X13029X

165X13039X

165X13049X

165X13059X

Plastic black, 4-40 UNC jack screws



09	1	1	33	45.5	17	7.5	E202784
15			41			8.5	
25			55	47		10.5	
37			71.3	51		11	
50			69	50		20	

165X13079X

165X13089X

165X13099X

165X13109X

165X13119X


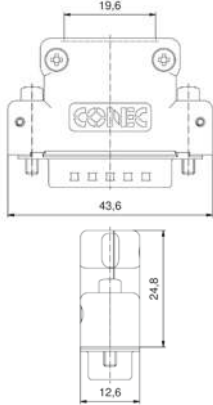
D-SUB HOODS AND ACCESSORIES

D-SUB Plastic Hoods With integrated crimp connector 7W2


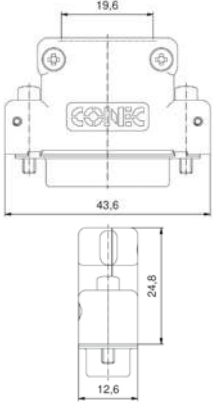
This hood can only be used in conjunction with the special connector.

- Integrated strain relief
- On request:
 - Available with bridged single contacts


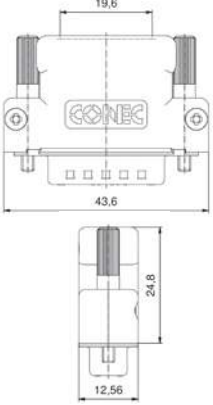
Plastic black, short screws Philips

	No. of poles	Number of straight cable entries	Number of side cable entries	Part No. Socket contact	Part No. Plug contact
 	7W2	1	/	13-000220	13-002780


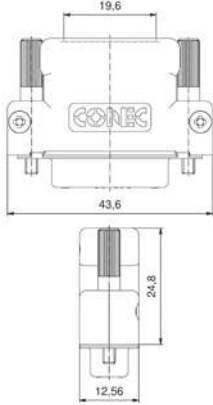
Plastic black, short screws Inbus

 	7W2	1	/	13-000210	13-002770
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Plastic black, jack screws Philips

 	7W2	1	/	13-000380	13-002760
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Plastic black, jack screws Inbus


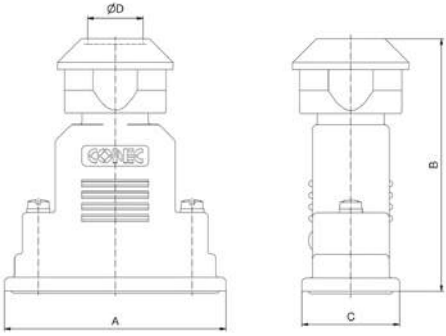
 	7W2	1	/	13-000370	13-002750
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D-SUB HOODS AND ACCESSORIES


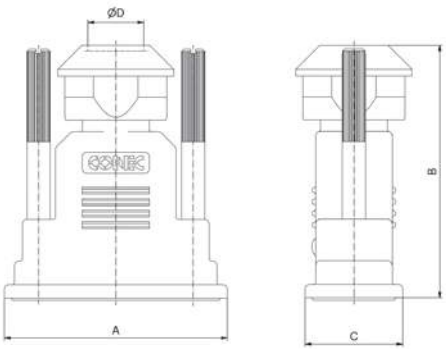
IP67 D-SUB Plastic Hoods Straight cable entry

Water resistant hood for Standard and Combination D-SUB connectors
For high power and coaxial contacts
Packaging: in pack units as a single package

Plastic black, 4-40 UNC short screws stainless steel

		No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Part No.
 	09				40	54.3		7 - 9	15-004710
	15				48	54.6	21	9 - 11	15-004720
	25	1	/		62	67.7		10 - 12	15-004730
	37				78		25.2		15-004740
	50				75.6	77.2	23.8	14 - 16	15-004750

Plastic black, 4-40 UNC jack screws stainless steel

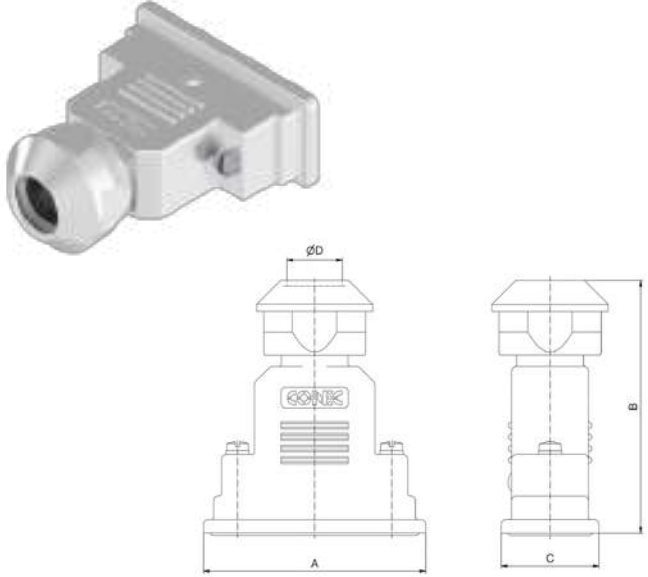
 	15				40	54.3		7 - 9	15-004670
	25				62	67.7	21	10 - 12	15-004680
	37	1	/		78		25.2		15-004690
	50				75.6	77.2	23.8	14 - 16	15-004700

D-SUB HOODS AND ACCESSORIES

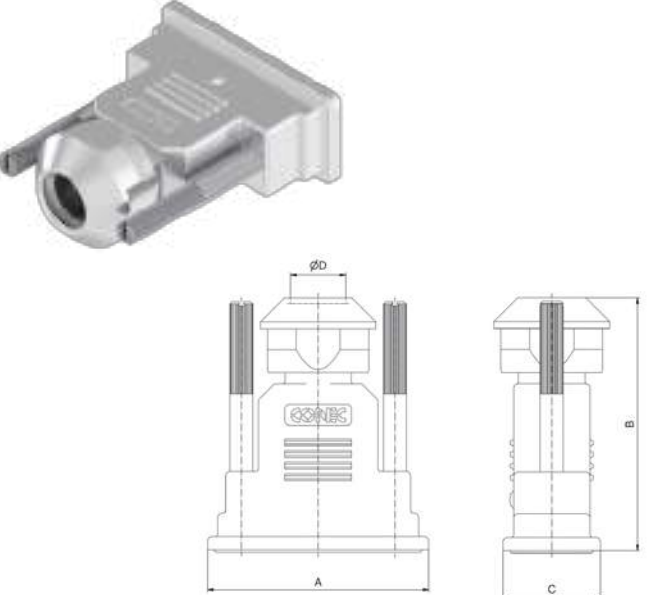
IP67 D-SUB Plastic Hoods Straight cable entry

Water resistant hood for Standard and Combination D-SUB connectors
For high power and coaxial contacts
Packaging: in pack units as a single package

Plastic metallized, 4-40 UNC short screws stainless steel

	No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Part No.
	09	1	/	40	54.3	21	7 - 9	15-004810
	15			48	54.6		9 - 11	15-004820
	25			62	67.7		10 - 12	15-004830
	37			78	77.2		14 - 16	15-004840
	50			75.6	23.8		14 - 16	15-004850

Plastic metallized, 4-40 UNC jack screws stainless steel

	15	1	/	40	54.3	21	7 - 9	15-004770
	25			62	67.7		10 - 12	15-004780
	37			78	77.2		14 - 16	15-004790
	50			75.6	23.8		14 - 16	15-004800

D-SUB HOODS AND ACCESSORIES

IP67 D-SUB Plastic Hoods, large internal space Straight cable entry

Plastic black, 4-40 UNC jack screws

No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	Part No.
09			40.76	77		5 - 10	E202784	165X14819X
15			49.06	79				165X14829X
25	1	/	62.8	87.5	22	6 - 12		165X14839X
37			78.86	99		9 - 16		165X14849X
50			76.46	107	24.8	13 - 20		165X14859X



Water resistant hood for Standard and Combination D-SUB connectors
Large internal space for crimp, high power and coaxial contacts
Accessories: Protection cap and Outside sealing made from TPE
On request:
• M3 thread

Plastic black, 4-40 UNC short screws

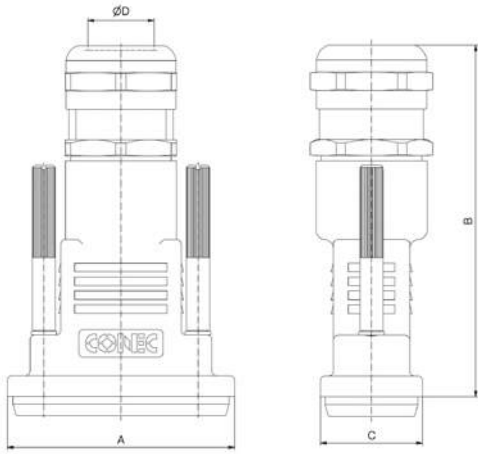
09			40.76	77		5 - 10	E202784	165X14869X
15			49.06	79				165X14879X
25	1	/	62.8	87.5	22	6 - 12		165X14889X
37			78.86	99		9 - 16		165X14899X
50			76.46	107	24.8	13 - 20		165X14909X



D-SUB HOODS AND ACCESSORIES

IP67 D-SUB Plastic Hoods, large internal space Straight cable entry

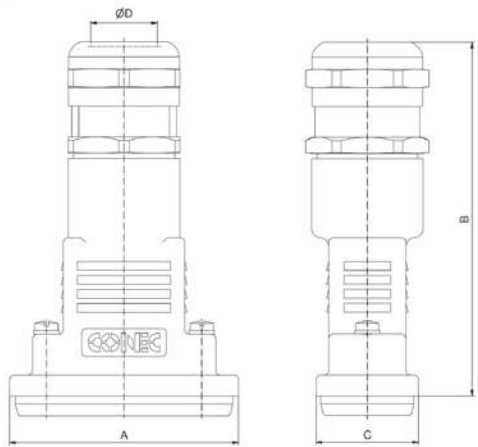
Plastic metallized, 4-40 UNC jack screws



No. of poles	Number of straight cable entries	Number of side cable entries	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	UL-File	
09			40.76	77		5 - 10		165X15019X
15			49.06	79				165X15029X
25	1	/	62.8	87.5	22	7 - 12	E202784	165X15039X
37			78.86	99		9 - 16		165X15049X
50			76.46	107	24.8	13 - 20		165X15059X

Water resistant hood for Standard and Combination D-SUB connectors
Large internal space for crimp, high power and coaxial contacts
Accessories: Protection cap and Outside sealing made from TPE
On request:
• M3 thread

Plastic metallized, 4-40 UNC short screws

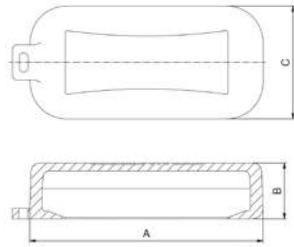


09			40.76	77		5 - 10		165X15069X
15			49.06	79				165X15079X
25	1	/	62.8	87.5	22	7 - 12	E202784	165X15089X
37			78.86	99		9 - 16		165X15099X
50			76.46	107	24.8	13 - 20		165X15109X

D-SUB HOODS AND ACCESSORIES

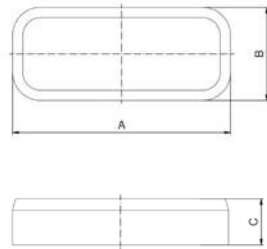
IP67 D-SUB Plastic Hoods, large internal space Straight cable entry

Protection cap



No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	UL-File	Part No.
09	44.56	12.6	25.6	E202784	165X17509X
15	52.86				165X17519X
25	66.6				165X17529X
37	82.66				165X17539X
50	80.26				28.4

Outside sealing

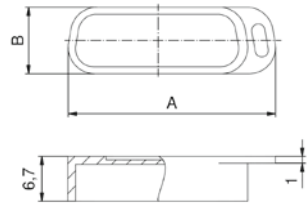


09	38.36	20	9.9	E202784	795-305420
15	46.66				795-305490
25	60.4				795-305580
37	76.86				795-305640
50	74.5				22.8

D-SUB HOODS AND ACCESSORIES

D-SUB protection caps Plastic design, for socket connector

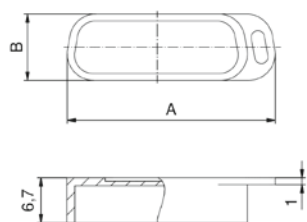
Plastic black



No. of poles	Measure A [mm]	Measure B [mm]	Part No.
09	22.9	10	160X10449X
15	31.4		160X10459X
25	44.7		160X10469X
37	61.2		160X10479X
50	58.8	12.8	160X10959X

*Dust cap protecting connector mounting area
Temperature range: -35°C... +85°C*

Plastic metallized



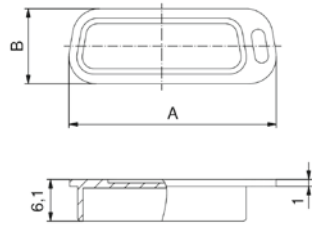
09	22.9	11	600X518009X
15	31.4		600X518015X
25	44.7		600X518025X
37	61.2	13.7	600X518037X
50	58.8		600X518050X

D-SUB HOODS AND ACCESSORIES

D-SUB protection caps Plastic design, for plug connector

Dust cap protecting connector mounting area
Temperature range: -35°C... +85°C

Plastic black



No. of poles

Measure A [mm]

Measure B [mm]

Part No.

09

22.5

10

160X10409X

15

30.65

10

160X10419X

25

44.4

10

160X10429X

37

60.75

10

160X10439X

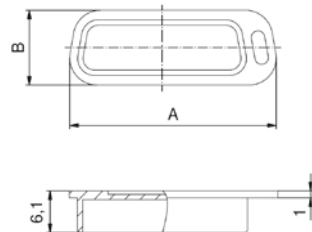
50

58.15

12.8

160X10969X

Plastic metallized



09

22.5

11

600X517009X

15

30.65

11

600X517015X

25

44.4

11

600X517025X

37

60.75

11

600X517037X

50

58.15

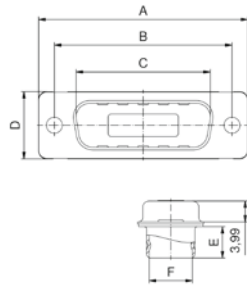
13.7

600X517050X

D-SUB HOODS AND ACCESSORIES

D-SUB shielded cap
Metall design, shielded, for socket connector

Through-hole Ø 3 mm

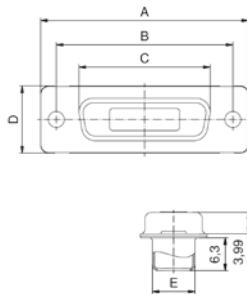


No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.
09	31.19	25	16.79	12.93	6.12	8.23	165X12969X
15	39.52	33.3	25.12				165X12979X
25	53.42	47.04	38.84	12.93	5.99	8.23	165X12989X
37	69.7	63.5	55.3				165X12999X
50	67.31	61.1	52.68	15.75	10.95	8.23	165X13009X

D-SUB HOODS AND ACCESSORIES

D-SUB shielded cap
Metall design, shielded, for plug connector

Through-hole Ø 3 mm

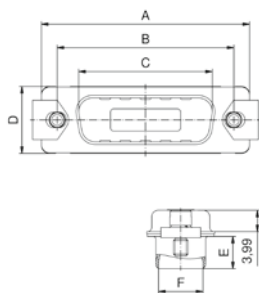


No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.	
							Shielded cap protecting against EMI / RFI Shell: steel tin plated
09	31.19	25	16.46	12.93	8.02	165X13129X	
15	39.52	33.3	24.79			165X13139X	
25	53.42	47.04	38.5	12.93	8.02	165X13149X	
37	69.7	63.5	54.96			165X13159X	
50	67.31	61.1	52.55	15.75	10.87	8.02	165X13169X

D-SUB HOODS AND ACCESSORIES

D-SUB shielded cap
Metall design, shielded, for socket connector

4-40 UNC screws and clip

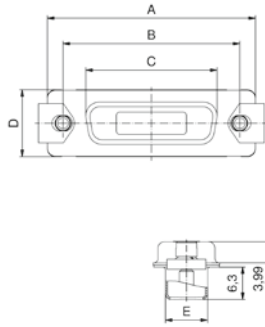


No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.
09	31.19	25	16.79	12.93	6.12	8.23	165X16719X
15	39.52	33.3	25.12				165X16729X
25	53.42	47.04	38.84	12.93	5.99	8.23	165X16739X
37	69.7	63.5	55.3				165X16749X
50	67.31	61.1	52.68	15.75	10.95	8.23	165X16759X

D-SUB HOODS AND ACCESSORIES

D-SUB shielded cap Metall design, shielded, for plug connector

4-40 UNC screws and clip



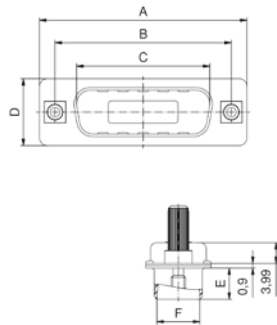
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
09	31.19	25	16.46	12.93	8.02	165X16769X
15	39.52	33.3	24.79			165X16779X
25	53.42	47.04	38.5			165X16789X
37	69.7	63.5	54.96			165X16799X
50	67.31	61.1	52.55			15.75

Shielded cap protecting against EMI/RFI
Shell: steel tin plated

D-SUB HOODS AND ACCESSORIES

D-SUB shielded cap Metall design, shielded, for socket connector

4-40 UNC jack screws



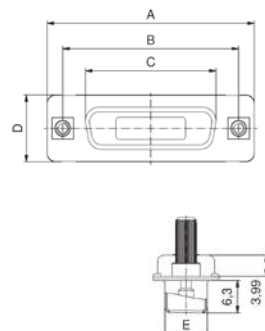
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.
09	31.19	25	16.79	12.93	6.12	8.23	165X16909X
15	39.52	33.3	25.12				165X16919X
25	53.42	47.04	38.84				165X16929X
37	69.7	63.5	55.3				5.99
50	67.31	61.1	52.68		15.75		10.95

Shielded cap protecting against EMI/RFI
Shell: steel tin plated
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

D-SUB shielded cap Metall design, shielded, for plug connector

4-40 UNC jack screws



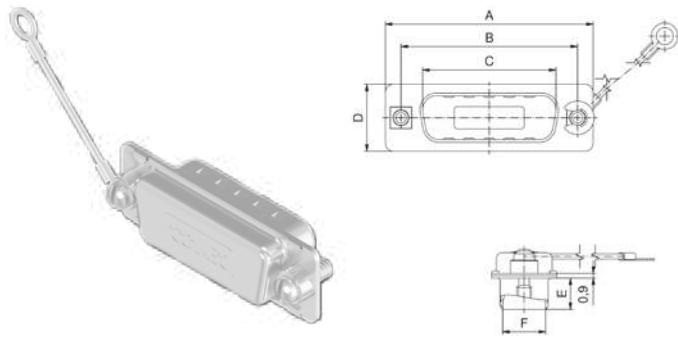
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
09	31.19	25	16.79	12.93	8.02	165X17009X
15	39.52	33.3	25.12			165X17019X
25	53.42	47.04	38.84			165X17029X
37	69.7	63.5	55.3			165X17039X
50	67.31	61.1	52.68			15.75

Shielded cap protecting against EMI/RFI
Shell: steel tin plated
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

D-SUB shielded cap with lanyard
Metall design, shielded, for socket connector

4-40 UNC screws



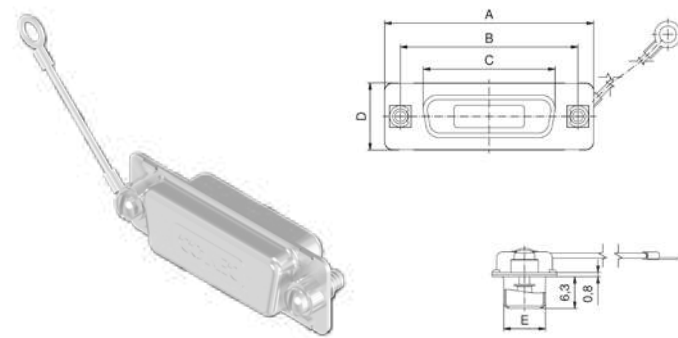
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.	
09	31.19	25	16.46	12.6	6.12	8.26	16-001050	
15	39.52	33.3	24.79				16-001060	
25	53.42	47.04	38.5				16-001070	
37	69.7	63.5	54.96				5.99	16-001080
50	67	61.11	52.5				15.38	6.12

Shielded cap protecting against EMI/RFI
Shell: steel tin plated
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

D-SUB shielded cap with lanyard
Metall design, shielded, for plug connector

4-40 UNC screws



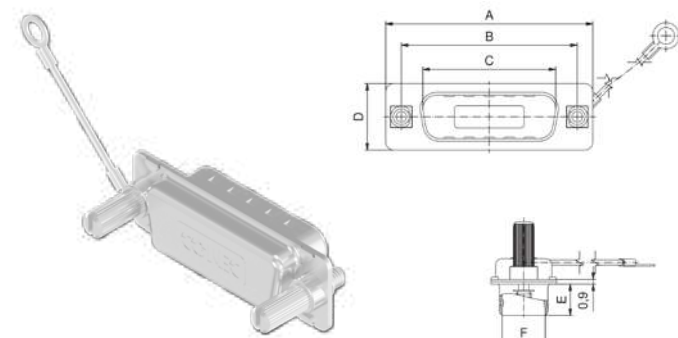
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
09	31.19	25	16.79	12.6	8	16-001150
15	39.52	33.3	25.12			16-001160
25	53.42	47.04	38.84			16-001170
37	69.7	63.5	55.3			16-001180
50	67	61.11	52.81			15.38

Shielded cap protecting against EMI/RFI
Shell: steel tin plated
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

D-SUB shielded cap with lanyard
Metall design, shielded, for socket connector

4-40 UNC steel jack screws



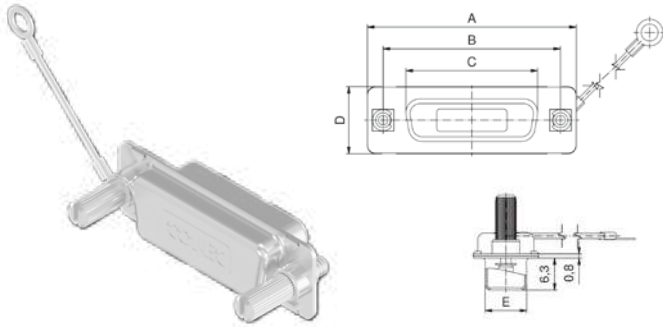
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.	
09	31.19	25	16.46	12.6	6.12	8.26	16-000840	
15	39.52	33.3	24.79				16-000850	
25	53.42	47.04	38.5				16-000860	
37	69.7	63.5	54.96				5.99	16-000870
50	67	61.11	52.5				15.38	6.12

Shielded cap protecting against EMI/RFI
Shell: steel tin plated
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

D-SUB shielded cap with lanyard
Metall design, shielded, for plug connector

4-40 UNC steel jack screws



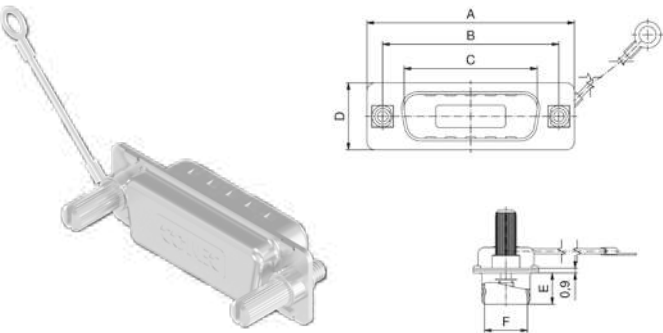
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
09	31.19	25	16.79	12.6	8	16-000950
15	39.52	33.3	25.12			16-000960
25	53.42	47.04	38.84			16-000970
37	69.7	63.5	55.3			16-000980
50	67	61.11	52.81			15.38

Shielded cap protecting against EMI/RFI
Shell: steel tin plated
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

D-SUB shielded cap with lanyard
Metall design, shielded, for socket connector

4-40 UNC stainless steel jack screws



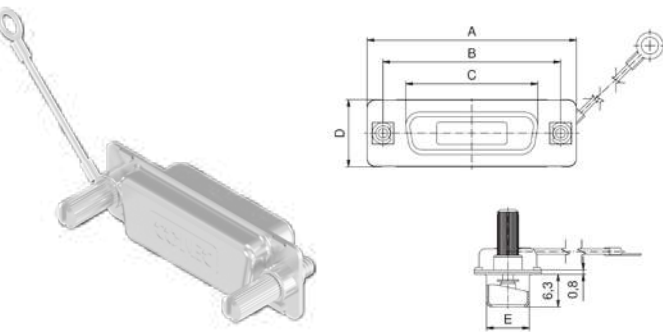
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.	
09	31.19	25	16.46	12.6	6.12	8.26	16-000280	
15	39.52	33.3	24.79				16-000290	
25	53.42	47.04	38.5				16-000300	
37	69.7	63.5	54.96				5.99	16-000310
50	67	61.11	52.5				6.12	11.07

Shielded cap protecting against EMI/RFI
Shell: steel tin plated
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

D-SUB shielded cap with lanyard
Metall design, shielded, for plug connector

4-40 UNC stainless steel jack screws



No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
09	31.19	25	16.79	12.6	8	16-000380
15	39.52	33.3	25.12			16-000390
25	53.42	47.04	38.84			16-000400
37	69.7	63.5	55.3			16-000410
50	67	61.11	52.81			15.38

Shielded cap protecting against EMI/RFI
Shell: steel tin plated
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

IP67 D-SUB protection cap with gasket
Metall design, shielded, for socket connector

4-40 UNC screws and clip

	No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.
	09	31.19	25	16.79	12.93	6.12	8.23	165X14719X
	15	39.52	33.3	25.12				165X14729X
	25	53.42	47.04	38.84				165X14739X
	37	69.7	63.5	55.3	5.99	165X14749X		
	50	67.31	61.1	52.68	15.75	10.95	165X14759X	

IP67 Protection cap with gasket
Protection against EMI/RFI
Shell: steel tin plated
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

IP67 D-SUB protection cap with gasket
Metall design, shielded, for plug connector

4-40 UNC screws and clip

	No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
	09	31.19	25	16.46	12.93	8.02	165X14769X
	15	39.52	33.3	24.79			165X14779X
	25	53.42	47.04	38.5			165X14789X
	37	69.7	63.5	54.96	165X14799X		
	50	67.31	61.11	52.55	15.75	10.87	165X14809X

IP67 Protection cap with gasket
Protection against EMI/RFI
Shell: steel tin plated
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

IP67 D-SUB protection cap with gasket
Metall design, shielded, for socket connector

4-40 UNC jack screws

	No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.
	09	31.19	25	16.79	12.93	6.12	8.23	165X17109X
	15	39.52	33.3	25.12				165X17119X
	25	53.42	47.04	36.84				165X17129X
	37	69.7	63.5	55.3	5.99	165X17139X		
	50	67.31	61.1	52.68	15.75	10.95	165X17149X	

IP67 Protection cap with gasket
Protection against EMI/RFI
Shell: brass tin plated
Jack screws: stainless steel
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

IP67 D-SUB protection cap with gasket
Metall design, shielded, for plug connector

4-40 UNC jack screws

No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
09	31.19	25	16.46	12.93	8.02	165X17209X
15	39.52	33.3	24.79			165X17219X
25	53.42	47.04	38.5			165X17229X
37	69.7	63.5	54.96			165X17239X
50	67.31	61.1	52.55			165X17249X

IP67 Protection cap with gasket
Protection against EMI / RFI
Shell: brass tin plated
Jack screws: stainless steel
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

IP67 D-SUB protection cap with gasket and lanyard
Metall design, shielded, for socket connector

4-40 UNC jack screws stainless steel

No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Measure F [mm]	Part No.
09	31.19	25	16.46	12.6	8.26	6.12	15-000010
15	39.52	33.3	24.79				15-000020
25	53.42	47.04	38.5				15-000030
37	69.7	63.5	54.96				15-000040
50	67	61.11	52.5				15-000050

IP67 Protection cap with gasket
Protection against EMI / RFI
Shell: brass tin plated
Lanyard: stainless steel
Jack screws: stainless steel
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

IP67 D-SUB protection cap with gasket and lanyard
Metall design, shielded, for plug connector

4-40 UNC jack screws stainless steel

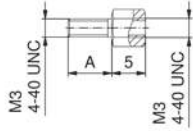
No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
09	31.19	25	16.79	12.6	8	15-000110
15	39.52	33.3	25.12			15-000120
25	53.42	47.04	38.84			15-000130
37	69.7	63.5	55.3			15-000140
50	67	61.11	52.81			15-000150

IP67 Protection cap with gasket
Protection against EMI / RFI
Shell: brass tin plated
Lanyard: stainless steel
Jack screws: stainless steel
On request:
• M3 thread

D-SUB HOODS AND ACCESSORIES

D-SUB Hardware accessories

Single hex bolts packaging unit 200 pieces



Length A [mm]

Internal thread

External thread

Part No.

6.5

740-353770

8.0

740-331370

11.0

4-40 UNC

4-40 UNC

740-331570

13.0

740-331870

14.0

740-331670

4.0

740-354470

7.0

M3

740-320570

8.0

740-342470

13.0

M3

740-365270

4.0

740-354370

7.0

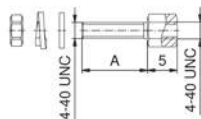
4-40 UNC

740-320170

13.0

740-344970

Single hex bolts set packaging unit 100 pieces



8.0

160X10359X

14.0

4-40 UNC

4-40 UNC

160X10639X

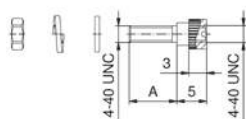
8.0

M3

M3

160X10529X

Screw locking set packaging unit 100 pieces



8.0





4-40 UNC

4-40 UNC

160X10329X

D-SUB HOODS AND ACCESSORIES

D-SUB Hardware accessories

Hex bolt nut .228" 5.8 mm	Internal thread	Part No.
	4-40 UNC	160X10379X
Flat washer		
		765-329670
Spring ring		
		765-329570
Nut		
	4-40 UNC	765-329770
	M3	765-329870

D-SUB HOODS AND ACCESSORIES

D-SUB Hardware accessories

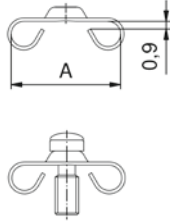
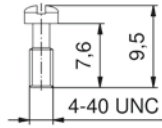
Set 4-40 UNC Screw locking with clamp

No. of poles

Material

Measure A [mm]

Part No.



09-37

steel

13.3

160X10259X

50

15.9

160X10659X

D-SUB HOODS AND ACCESSORIES

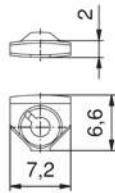
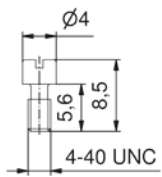
D-SUB Hardware accessories

Set 4-40 UNC Screw locking with clamp

No. of poles

Material

Part No.

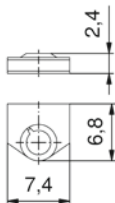
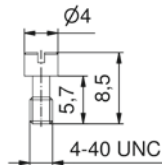


09-50

stainless steel

160X00470A

Set 4-40 UNC Screw locking with clamp



09-50

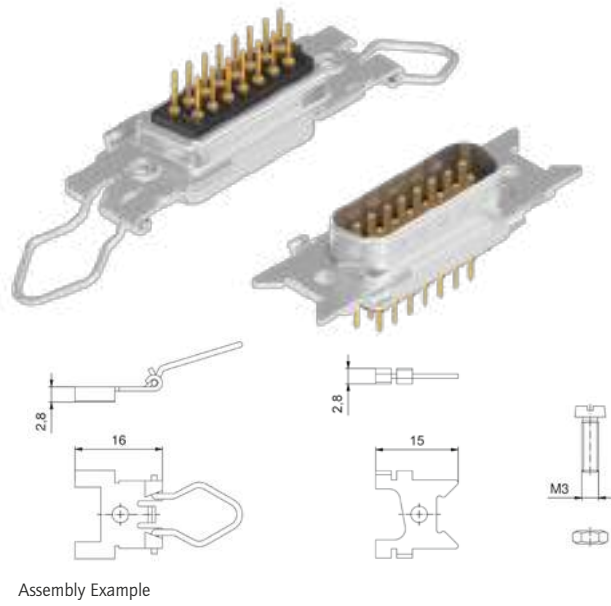
brass

16-505750

D-SUB HOODS AND ACCESSORIES

D-SUB Hardware accessories

Set spring locking



No. of poles

Material

- Set spring locking:
- 2 spring clips
 - 2 wire clamp holders
 - 2 clamps
 - 4 M3 screws
 - 4 M3 nuts

Part No.

09-37

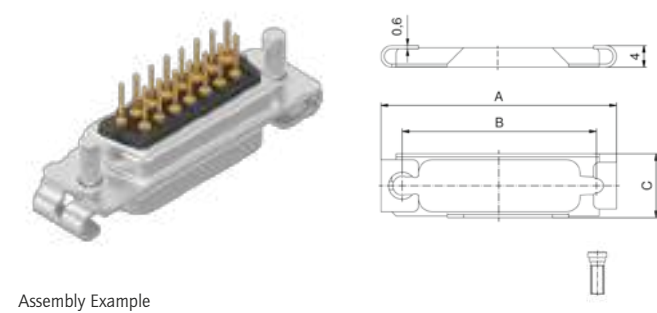
steel

160X10239X

D-SUB HOODS AND ACCESSORIES

D-SUB Hardware accessories

Set Slide lock Type 3



No. of poles

Measure A [mm]

Measure B [mm]

Measure C [mm]

- Slide lock Type 3
(for direct assembly to connector)
- 1 frame
 - 2 self threading screws for plastic and metal

Part No.

09

35

27.4

12

160X10159X

15

43.3

35.7

11.5

160X10169X

25

57

49.4

12

160X10179X

37

74.4

65.9

12

160X10189X

50

72

63.5


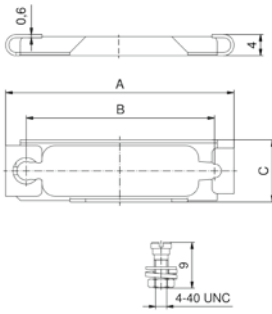
15

160X10199X

D-SUB HOODS AND ACCESSORIES

D-SUB Hardware accessories

Set Slide lock Type 4

 Assembly Example		No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Part No.
		09	35	27.4	12	160X10689X
15	43.3	35.7	11.5	160X10699X		
25	57	49.4	12	160X10709X		
37	74.4	65.9		160X10719X		
50	72	63.5	15	160X10729X		


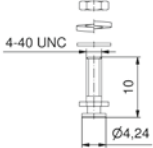
Slide lock Type 4 (for hood assembly)

- 1 frame
- 2 4-40 UNC screws
- 2 flat washers
- 2 spring rings
- 2 4-40 UNC nuts

D-SUB HOODS AND ACCESSORIES

D-SUB Hardware accessories

Set Holding bolt for slide lock type 3 + 4

		No. of poles	Part No.
		09-50	160X10209X

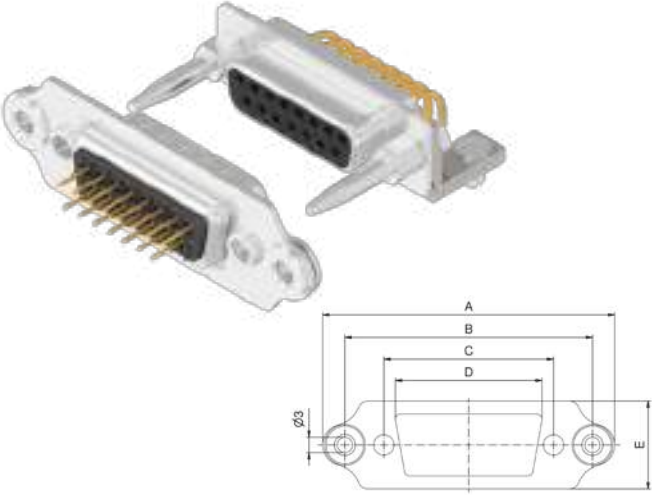
Holding bolt set:

- 2 hex bolts
- 2 flat washers
- 2 spring rings
- 2 nuts

D-SUB HOODS AND ACCESSORIES

D-SUB Hardware accessories

Blind mating frame


		No. of poles	Measure A [mm]	Measure B [mm]	Measure C [mm]	Measure D [mm]	Measure E [mm]	Part No.
 <p>Assembly Example</p>	09	49.02	40.28	24.99	20.2	17.2	160X10889X	
	15	57.35	48.62	33.32	28.8		160X10899X	
	25	71.25	62.51	47.04	42.5		160X10909X	
	37	87.53	78.79	63.5	59.1		160X10919X	
	50	85.14	76.4	61.11	56.3		20.04	160X10929X

Blind mating - Plug-in system:
Material: Steel nickel plated
• Mounting for mating applications consist of frame and float mount
• Frame is factory assembled

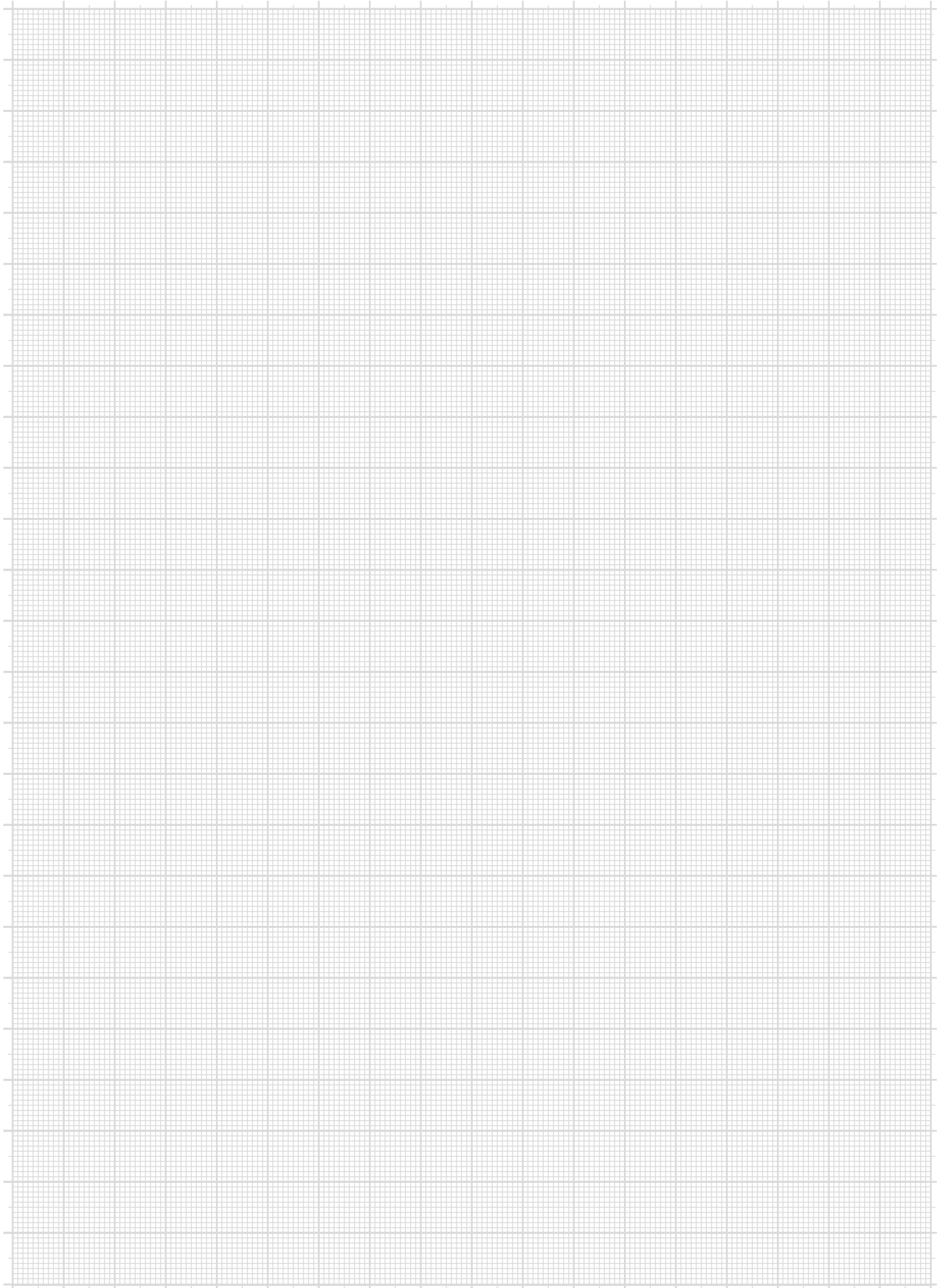
D-SUB HOODS AND ACCESSORIES

D-SUB Hardware accessories

Blind mating guide posts

		No. of poles	Part No.
	09-50		160X10949X

Blind mating - Plug-in system guide pin
Material: Steel nickel plated



SECTION 6

IP67 D-SUB CONNECTORS





IP67 D-SUB CONNECTORS

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
 - 8* = Shell stainless steel with plastic frame
- *on request

Variations

- STD = D-SUB-Standard
- HDD = D-SUB-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 10 A
- R = Solder pin, straight
- T = Solder pin, angled, .189"/ 4.80 mm
- U = Solder pin, angled, .189"/ 7.00 mm
- Z = Solder pin, angled, .189"/11.80 mm
- Y = Solder pin, angled, .189"/ 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
- B3 = 4-40 UNC threaded insert
- B5 = 4-40 UNC front spacer
- B7 = 4-40 UNC front spacer and rear mounting stud
- B9 = 4-40 UNC front spacer for adapter
- E2 = 4-40 UNC Threaded rear spacer with PCB clip, PCB 1.60 mm
- S2 = Metal bracket, 4-40 UNC threaded insert
- S4 = Metal bracket, 4-40 UNC threaded insert and PCB clip
- R2 = Metal bracket, 4-40 UNC threaded insert
- R4 = Metal bracket, 4-40 UNC threaded insert and PCB clip

- OX = Standard

IP67 COMBINATION D-SUB CONNECTORS

Product specification

Basic material	D-SUB			D-SUB High Density		
	SlimCon	Solid Body	Standard	SlimCon	Solid Body	Standard
Number of poles	9 - 25 pos.	9 - 50 pos.		15 - 44 pos.	15 - 78 pos.	
Contact	Copper alloy					
Contact plating	Gold over nickel					
Insulator	PBT GF UL 94 V-0					
One-piece shell Zinc die-cast nickel plated	✓	✓		✓	✓	
Shell Brass tin plated (Stainless steel on request)			✓			✓
Technical data						
Test voltage	1000 V, 50 Hz, for 1 minute					
Working voltage	125 V AC/DC depending on isolation coordination refer to DIN VDE 0110 / IEC 664-1			60 V AC/DC		
Current rating	7.5 A (UL) / 5 A (CSA, VDE)			3 A (UL) / 2.5 A (CSA, VDE)		
Contact resistance	max. 10 mΩ prior to stressing ΔR max. 10 mΩ after stressing per IEC 60807-2					
Insulation resistance	≥ 5 GΩ					
Clearance and creepage distance	Contact - Contact ≥ 1.0 mm / 0.04" Contact - earth ≥ 1.2 mm / 0.047"			≥ 0.6 mm / 0.024"		
Operating temperature	-40 °C to +105 °C		-25 °C to +105 °C	-40 °C to +105 °C		-25 °C to +105 °C
Mounting style Rear panel mounting/ Panel thickness	min. 0.8 mm to 1.3 mm	min. 1 mm to 1.6 mm		min. 0.8 mm to 1.3 mm	min. 1 mm to 1.6 mm	
Mounting style Front panel mounting			✓		✓	
Mating and unmating forces	9 pos. ≤ 30 N 15 pos. ≤ 50 N 25 pos. ≤ 30 N	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	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 wavesolder parameters	Preheating		Solder terminal dipping parameters			
	max. temperature	duration (max.)	max. Solder bath temperature		max. terminal immersion time	
IP67 D-SUB CONEC SlimCon and Solid Body	150 °C	180 s	265 °C		8 s	
IP67 D-SUB Standard	120 °C	120 s	240 °C		5 s	

Technical specifications are subject to change without notice.

IP67 D-SUB CONNECTORS

Panel mounting

Front panel mounting



Back panel mounting

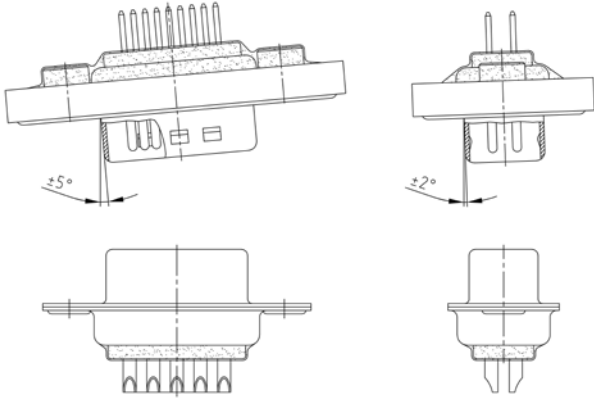


The hex bolts illustrated here (4-40 UNC or M3 threads) are included in the delivery complement of every connector with a sealing frame. The length of this spacer has been selected to accommodate a panel thickness of .063"/1.6 mm (standard & solid body)/.051"/1.3 mm (CONEC SlimCon) such that it does not extend beyond the plug-in height. Material: stainless steel.

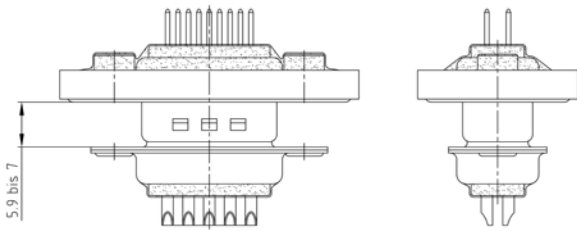
IP67 D-SUB CONNECTORS

Mating conditions

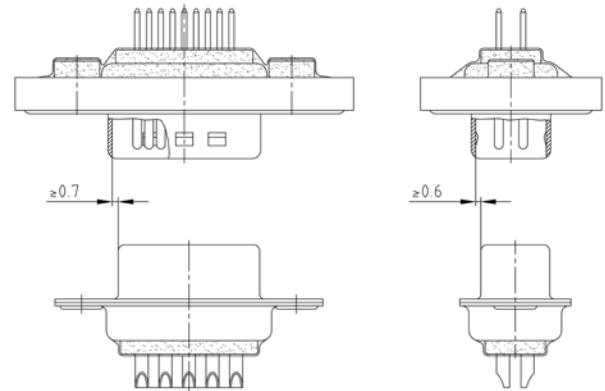
Max. tilt angle for connector mating



Range for safe contact

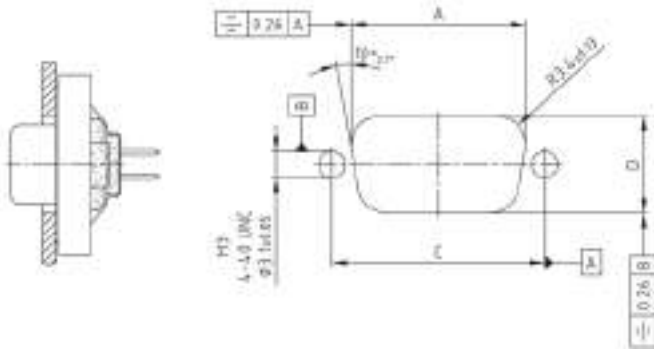


Lock-in range

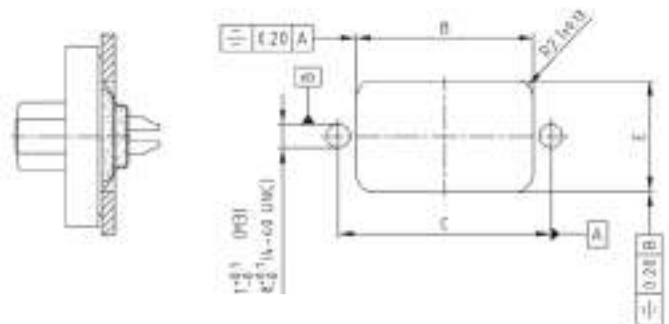


Panel cut-out

Back panel mounting



Front panel mounting



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

Technical specifications are subject to change without notice.

IP67 D-SUB CONNECTORS

Assembly for series Solid Body and Standard Rear Panel Mounting

Panel thickness min. 1.0 mm



Panel thickness max. 1.6 mm



Panel thickness over 1.6 mm



Technical specifications are subject to change without notice.

IP67 D-SUB CONNECTORS

Assembly for series CONEC SlimCon Rear Panel Mounting

Panel thickness min. 0.8 mm



Panel thickness max. 1.3 mm



Panel thickness over 1.3 mm

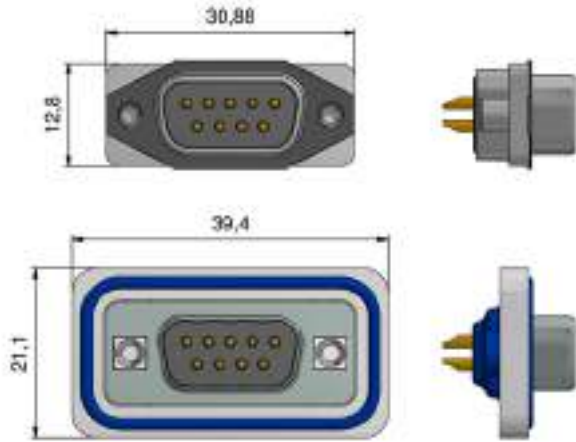


Technical specifications are subject to change without notice.

IP67 D-SUB CONNECTORS

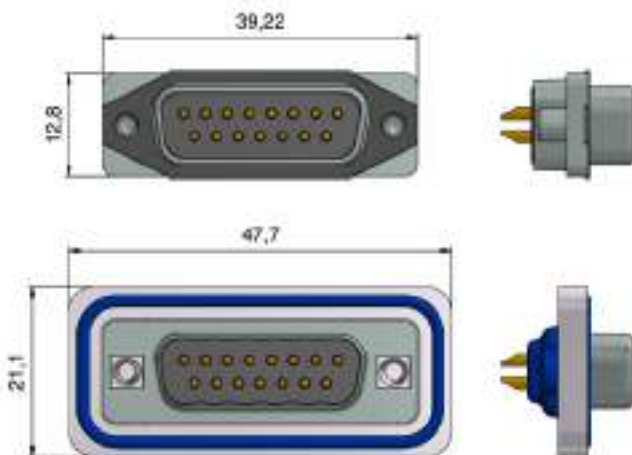
Size comparison Series Standard/Solid Body versus series CONEC SlimCon

Size 1



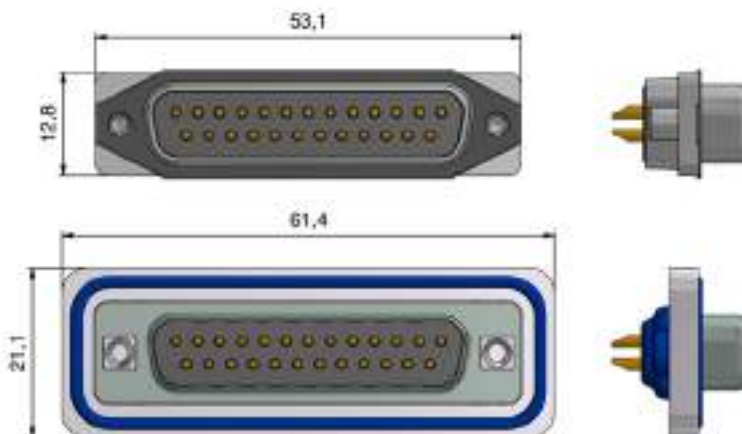
IP67 D-SUB CONEC SlimCon	IP67 D-SUB Standard/ Solid Body	Space-saving	Reduction of mounting space
30.88 mm	39.4 mm	8.3 mm / 13.5 %	52 %
12.8 mm	21.1 mm	8.3 mm / 39 %	

Size 2



IP67 D-SUB CONEC SlimCon	IP67 D-SUB Standard/ Solid Body	Space-saving	Reduction of mounting space
39.22 mm	47.7 mm	8.3 mm / 13.5 %	50 %
12.8 mm	21.1 mm	8.3 mm / 39 %	

Size 3




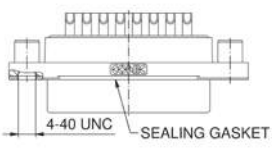
IP67 D-SUB CONEC SlimCon	IP67 D-SUB Standard/ Solid Body	Space-saving	Reduction of mounting space
53.1 mm	61.4 mm	8.3 mm / 13.5 %	48 %
12.8 mm	21.1 mm	8.3 mm / 39 %	

Technical specifications are subject to change without notice.

IP67 D-SUB CONNECTORS
CONEC SlimCon


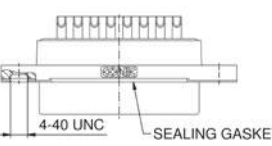
Solder cup
Precision machined contacts, AWG 20

4-40 UNC threaded insert

 	No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	09	7.5 (UL) / 5 (CSA, VDE)	125	3	15-006293	15-006243
	15				15-006303	15-006253
	25				15-006313	15-006263


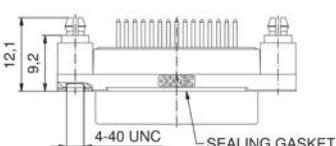
One-piece shell: zinc die-cast nickel plated
Quality class 3 (A) = 50 mating cycles
On request:
• Quality class 1 (C) = 500 mating cycles

4-40 UNC threaded insert (for cable assembly and overmould)

 	No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	09	7.5 (UL) / 5 (CSA, VDE)	125	3	15-006393	15-006343
	15				15-006403	15-006353
	25				15-006413	15-006363


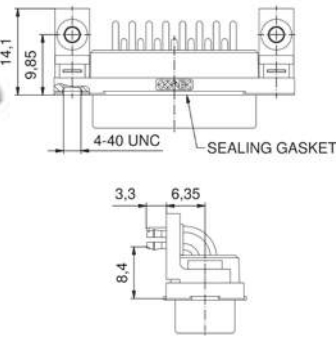
Solder pin, straight
Precision machined contacts

4-40 UNC threaded rear spacer clip for PCB 1.6 mm

 	No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	09	7.5 (UL) / 5 (CSA, VDE)	125	3	15-006493	15-006443
	15				15-006503	15-006453
	25				15-006513	15-006463

Solder pin, angled, .331"/8.4 mm
Precision machined contacts, metal bracket


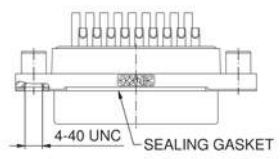
Clip for PCB 1.6 mm, 4-40 UNC threaded insert

 	No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	09	7.5 (UL) / 5 (CSA, VDE)	125	3	15-006593	15-006543
	15				15-006603	15-006553
	25				15-006613	15-006563


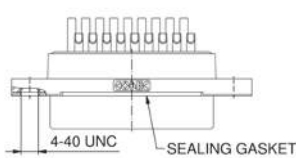
IP67 D-SUB HIGH DENSITY CONNECTORS
CONEC SlimCon

Solder cup
 Precision machined contacts, AWG 22

4-40 UNC threaded insert


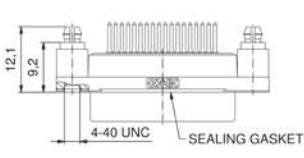
 	No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	15	3 (UL, VDE) / 2.5 (CSA)	60	3	15-007853	15-007823
	26	3 (UL, VDE) / 2.5 (CSA)			15-007863	15-007833
	44	3 (UL, VDE) / 2.5 (CSA)			15-007873	15-007843

4-40 UNC threaded insert (for cable assembly and overmould)

 	No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	15	3 (UL, VDE) / 2.5 (CSA)	60	3	15-007673	15-007703
	26	3 (UL, VDE) / 2.5 (CSA)			15-007683	15-007713
	44	3 (UL, VDE) / 2.5 (CSA)			15-007693	15-007723


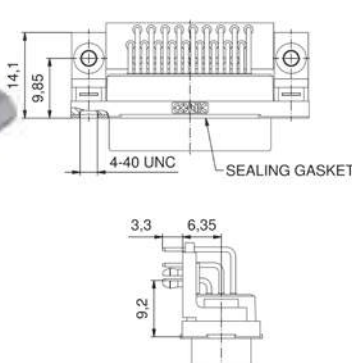
Solder pin, straight
 Precision machined contacts

4-40 UNC threaded rear spacer clip for PCB 1.6 mm

 	No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	15	3 (UL, VDE) / 2.5 (CSA)	60	3	15-007553	15-007583
	26	3 (UL, VDE) / 2.5 (CSA)			15-007563	15-007593
	44	3 (UL, VDE) / 2.5 (CSA)			15-007573	15-007603

Solder pin, angled, .362" / 9.2 mm
 Precision machined contacts, metal bracket

Clip for PCB 1.6 mm, 4-40 UNC threaded insert

 	No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	15	3 (UL, VDE) / 2.5 (CSA)	60	3	15-007613	15-007643
	26				15-007623	15-007653
	44				15-007633	15-007663


One-piece shell: zinc die-cast nickel plated
 Quality class 3 (A) = 50 mating cycles
 On request:
 • Quality class 1 (C) = 500 mating cycles

IP67 D-SUB CONNECTORS
Standard Solid Body

Solder cup
Precision machined contacts, AWG 20

4-40 UNC threaded insert


One-piece shell: zinc die-cast nickel plated
Quality class 3 (A) = 50 mating cycles
On request:
• Quality class 1 (C) = 500 mating cycles

	No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
					Part No. Socket contact	Part No. Plug contact
	09	7.5 (UL) / 5 (CSA, VDE)	125	3	15-000613	15-000573
	15				15-000623	15-000583
	25				15-000633	15-000593
	37				15-000643	15-000603
	50				15-002103	15-002093

Solder pin, straight
Precision machined contacts

4-40 UNC threaded rear spacer clip for PCB 1.6 mm


Part No. Socket contact Part No. Plug contact

	No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
					Part No. Socket contact	Part No. Plug contact
	09	7.5 (UL) / 5 (CSA, VDE)	125	3	15-000453	15-000413
	15				15-000463	15-000423
	25				15-000473	15-000433
	37				15-000483	15-000443
	50				15-002063	15-002053

IP67 D-SUB CONNECTORS
Standard Solid Body

Solder pin, angled, .402" / 10.2 mm
Precision machined contacts, metal bracket

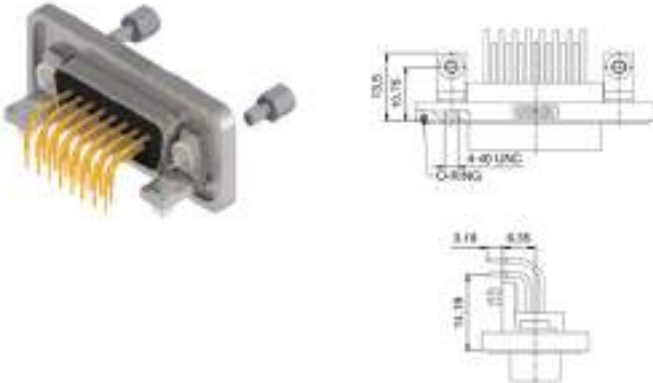
Clip for PCB 1.6 mm, 4-40 UNC threaded insert

	No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	09	75 (UL) / 5 (CSA VDE)	125	3	15-000773	15-000733
15	15-000783				15-000743	
25	15-000793				15-000753	
37	15-000803				15-000763	
50	15-002143				15-002133	

One-piece shell: zinc die-cast nickel plated
Quality class 3 (A) = 50 mating cycles
On request:
• Quality class 1 (C) = 500 mating cycles

Solder pin, angled, .590" / 14.19 mm
Precision machined contacts, metal bracket


Clip for PCB 1.6 mm, 4-40 UNC threaded insert

	No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	09	75 (UL) / 5 (CSA VDE)	125	3	15-000853	15-000813
15	15-000863				15-000823	
25	15-000873				15-000833	
37	15-000883				15-000843	
50	15-002163				15-002153	

IP67 D-SUB CONNECTORS
High Density Solid Body

Solder cup
Precision machined contacts, AWG 22

4-40 UNC threaded insert

	No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	15	3 (UL, VDE) / 2.5 (CSA)	60	3	15-000693	15-000653
26	15-000703				15-000663	
44	15-000713				15-000673	
62	15-000723				15-000683	
78	15-002123				15-002113	


One-piece shell: zinc die-cast nickel plated
Quality class 3 (A) = 50 mating cycles
On request:
• Quality class 1 (C) = 500 mating cycles

IP67 D-SUB CONNECTORS
High Density Solid Body

Solder pin, straight
Precision machined contacts

4-40 UNC threaded rear spacer clip for PCB 1.6 mm

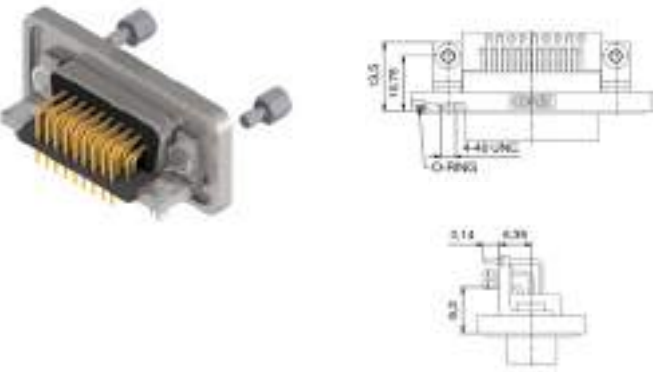
One-piece shell: zinc die-cast nickel plated
Quality class 3 (A) = 50 mating cycles
On request:
• Quality class 1 (C) = 500 mating cycles

	No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	15	3 (UL, VDE) / 2.5 (CSA)	60	3	15-000533	15-000493
	26				15-000543	15-000503
	44				15-000553	15-000513
	62				15-000563	15-000523
	78				15-002183	15-002073

Solder pin, angled, .362"/9.2 mm
Precision machined contacts, metal bracket

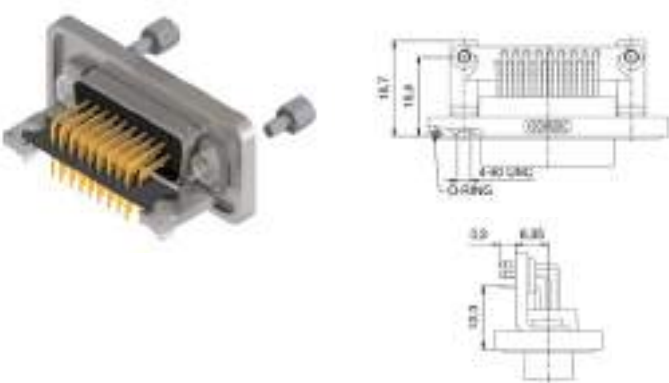
Clip for PCB 1.6 mm, 4-40 UNC threaded insert

Part No. Socket contact Part No. Plug contact

	No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	15	3 (UL, VDE) / 2.5 (CSA)	60	3	15-002243	15-002193
	26				15-002253	15-002203
	44				15-002263	15-002213
	62				15-002273	15-002223
	78				15-002283	15-002233

Solder pin, angled, .484"/12.3 mm
Precision machined contacts, metal bracket


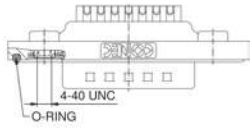
Clip for PCB 1.6 mm, 4-40 UNC threaded insert

	No. of poles	Current rating [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	15	3 (UL, VDE) / 2.5 (CSA)	60	3	15-000933	15-000893
	26				15-000943	15-000903
	44				15-000953	15-000913
	62				15-000963	15-000923

IP67 D-SUB CONNECTORS Standard

Solder cup
Precision machined contacts, AWG 20


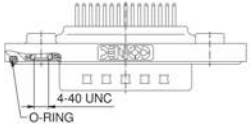
4-40 UNC threaded insert

 	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
						Part No. Socket contact	Part No. Plug contact
	09	75 (UL) / 5 (CSA VDE)	125	E202784	3	6STD09SAM99B30X	6STD09PAM99B30X
	15					6STD15SAM99B30X	6STD15PAM99B30X
	25					6STD25SAM99B30X	6STD25PAM99B30X
	37					6STD37SAM99B30X	6STD37PAM99B30X
	50					6STD50SAM99B30X	6STD50PAM99B30X


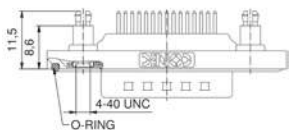
Shell: Brass tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

Solder pin, straight
Precision machined contacts

4-40 UNC threaded insert

 	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
						Part No. Socket contact	Part No. Plug contact
	09	75 (UL) / 5 (CSA VDE)	125	E202784	3	6STD09SAR99B30X	6STD09PAR99B30X
	15					6STD15SAR99B30X	6STD15PAR99B30X
	25					6STD25SAR99B30X	6STD25PAR99B30X
	37					6STD37SAR99B30X	6STD37PAR99B30X
	50					6STD50SAR99B30X	6STD50PAR99B30X

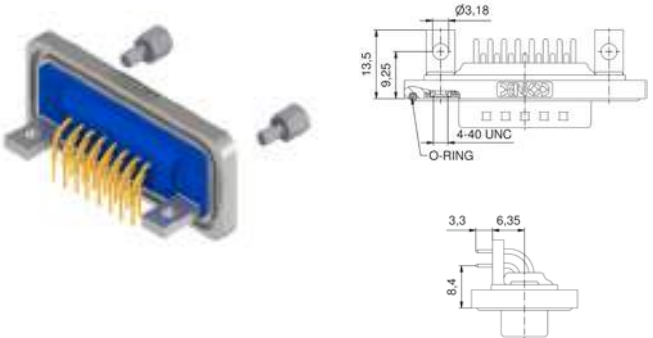
4-40 UNC threaded rear spacer clip for PCB 1.6 mm

 	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
						Part No. Socket contact	Part No. Plug contact
	09	75 (UL) / 5 (CSA VDE)	125	E202784	3	6STD09SAR99E20X	6STD09PAR99E20X
	15					6STD15SAR99E20X	6STD15PAR99E20X
	25					6STD25SAR99E20X	6STD25PAR99E20X
	37					6STD37SAR99E20X	6STD37PAR99E20X
	50					6STD50SAR99E20X	6STD50PAR99E20X

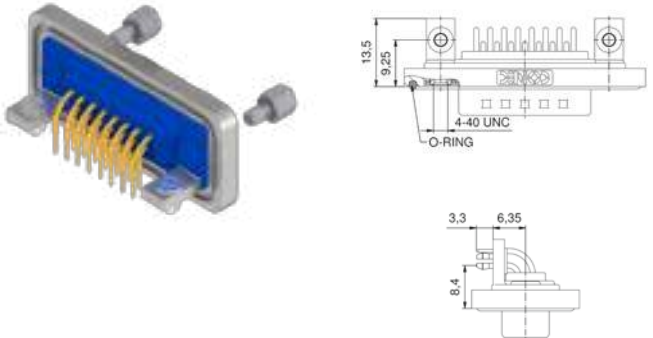
IP67 D-SUB CONNECTORS
Standard

Solder pin, angled, .331"/8.4 mm
Precision machined contacts, metal bracket

4-40 UNC threaded insert

		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
							Part No. Socket contact	Part No. Plug contact
09	75 (UL) / 5 (CSA VDE)	125	E202784	3	6STD09SAT99S20X	6STD09PAT99S20X		
15					6STD15SAT99S20X	6STD15PAT99S20X		
25					6STD25SAT99S20X	6STD25PAT99S20X		
37					6STD37SAT99S20X	6STD37PAT99S20X		
50					6STD50SAT99S20X	6STD50PAT99S20X		

Clip for PCB 1.6 mm, 4-40 UNC threaded insert

		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
							Part No. Socket contact	Part No. Plug contact
09	75 (UL) / 5 (CSA VDE)	125	E202784	3	6STD09SAT99S40X	6STD09PAT99S40X		
15					6STD15SAT99S40X	6STD15PAT99S40X		
25					6STD25SAT99S40X	6STD25PAT99S40X		
37					6STD37SAT99S40X	6STD37PAT99S40X		
50					6STD50SAT99S40X	6STD50PAT99S40X		

Shell: Brass tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

IP67 D-SUB CONNECTORS
Standard

Solder pin, angled, .417" / 10.6 mm
Precision machined contacts, metal bracket

4-40 UNC threaded insert

		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
	09	75 (UI) / 5 (CSA VDE)	125	E202784	3	6STD09SAU99R20X	6STD09PAU99R20X	
	15					6STD15SAU99R20X	6STD15PAU99R20X	
	25					6STD25SAU99R20X	6STD25PAU99R20X	
	37					6STD37SAU99R20X	6STD37PAU99R20X	
	50					6STD50SAU99R20X	6STD50PAU99R20X	

Clip for PCB 1.6 mm, 4-40 UNC threaded insert

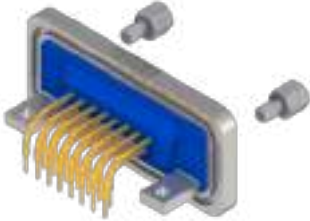
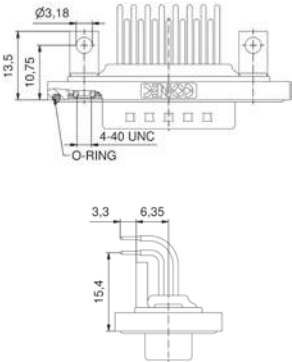
		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
	09	75 (UI) / 5 (CSA VDE)	125	E202784	3	6STD09SAU99R40X	6STD09PAU99R40X	
	15					6STD15SAU99R40X	6STD15PAU99R40X	
	25					6STD25SAU99R40X	6STD25PAU99R40X	
	37					6STD37SAU99R40X	6STD37PAU99R40X	
	50					6STD50SAU99R40X	6STD50PAU99R40X	

Shell: Brass tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread


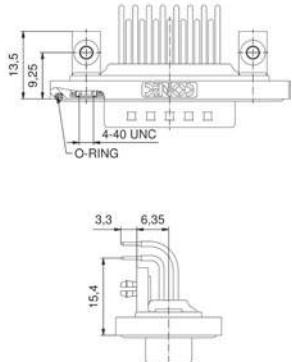
IP67 D-SUB CONNECTORS
Standard

Solder pin, angled, .606" / 15.4 mm
Precision machined contacts, metal bracket

4-40 UNC threaded insert

		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	09	75 (UI) / 5 (CSA VDE)	125	E202784	3	6STD09SAZ99S20X	6STD09PAZ99S20X	
	15					6STD15SAZ99S20X	6STD15PAZ99S20X	
	25					6STD25SAZ99S20X	6STD25PAZ99S20X	
	37					6STD37SAZ99S20X	6STD37PAZ99S20X	

Clip for PCB 1.6 mm, 4-40 UNC threaded insert

		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	09	75 (UI) / 5 (CSA VDE)	125	E202784	3	6STD09SAZ99S40X	6STD09PAZ99S40X	
	15					6STD15SAZ99S40X	6STD15PAZ99S40X	
	25					6STD25SAZ99S40X	6STD25PAZ99S40X	
	37					6STD37SAZ99S40X	6STD37PAZ99S40X	

Shell: Brass tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

IP67 D-SUB CONNECTORS Standard

Solder cup, precision machined contacts
Front panel mounting, AWG 20

4-40 UNC Front spacer

No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	75 (UL) / 5 (CSA VDE)	125	E202784	3	6STD09SAM99B50X	6STD09PAM99B50X
15					6STD15SAM99B50X	6STD15PAM99B50X
25					6STD25SAM99B50X	6STD25PAM99B50X
37					6STD37SAM99B50X	6STD37PAM99B50X
50					6STD50SAM99B50X	6STD50PAM99B50X

4-40 UNC Front spacer and rear mounting stud

No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	75 (UL) / 5 (CSA VDE)	125	E202784	3	6STD09SAM99B70X	6STD09PAM99B70X
15					6STD15SAM99B70X	6STD15PAM99B70X
25					6STD25SAM99B70X	6STD25PAM99B70X
37					6STD37SAM99B70X	6STD37PAM99B70X
50					6STD50SAM99B70X	6STD50PAM99B70X

IP67 D-SUB CONNECTORS Standard

Solder cup, precision machined contacts
Hood Assembly, AWG 20

Through-hole Ø 3 mm

No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
09	75 (UL) / 5 (CSA VDE)	125	E202784	3	4STD09SAM99A10X	4STD09PAM99A10X
15					4STD15SAM99A10X	4STD15PAM99A10X
25					4STD25SAM99A10X	4STD25PAM99A10X
37					4STD37SAM99A10X	4STD37PAM99A10X
50					4STD50SAM99A10X	4STD50PAM99A10X

IP67 D-SUB CONNECTORS High Density

Solder cup
Precision machined contacts, AWG 22

4-40 UNC threaded insert

No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
15	3 (UL VDE) / 2.5 (CSA)	60	E202784	3	6HDD15SAM99B30X	6HDD15PAM99B30X
26					6HDD26SAM99B30X	6HDD26PAM99B30X
44					6HDD44SAM99B30X	6HDD44PAM99B30X
62					6HDD62SAM99B30X	6HDD62PAM99B30X
78					6HDD78SAM99B30X	6HDD78PAM99B30X

Shell: Brass tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

Shell: Brass tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Stainless steel
• Quality class 1 (C) = 500 mating cycles


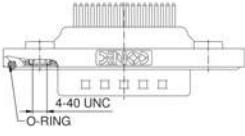
Shell: Brass tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

IP67 D-SUB CONNECTORS
High Density


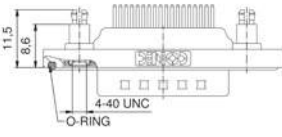
Solder pin, straight
Precision machined contacts

Shell: Brass tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

4-40 UNC threaded insert


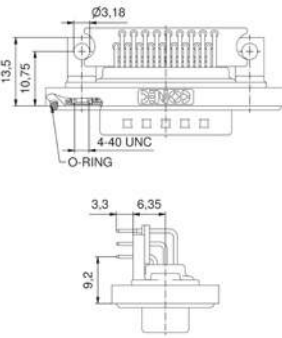
 	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
						Part No. Socket contact	Part No. Plug contact
	15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	6HDD15SAR99B30X	6HDD15PAR99B30X
	26					6HDD26SAR99B30X	6HDD26PAR99B30X
	44					6HDD44SAR99B30X	6HDD44PAR99B30X
	62					6HDD62SAR99B30X	6HDD62PAR99B30X
	78					6HDD78SAR99B30X	6HDD78PAR99B30X

4-40 UNC threaded rear spacer clip for PCB 1.6 mm


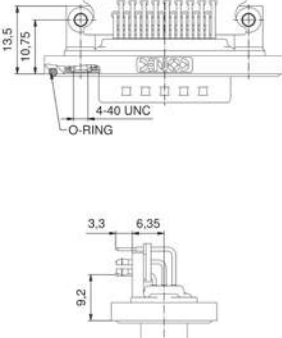
 	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
						Part No. Socket contact	Part No. Plug contact
	15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	6HDD15SAR99E20X	6HDD15PAR99E20X
	26					6HDD26SAR99E20X	6HDD26PAR99E20X
	44					6HDD44SAR99E20X	6HDD44PAR99E20X
	62					6HDD62SAR99E20X	6HDD62PAR99E20X
	78					6HDD78SAR99E20X	6HDD78PAR99E20X

Solder pin, angled, .362"/9.2 mm
Precision machined contacts, metal bracket

4-40 UNC threaded insert

 	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
						Part No. Socket contact	Part No. Plug contact
	15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	6HDD15SAY99R20X	6HDD15PAY99R20X
	26					6HDD26SAY99R20X	6HDD26PAY99R20X
	44					6HDD44SAY99R20X	6HDD44PAY99R20X
	62					6HDD62SAY99R20X	6HDD62PAY99R20X
	78					6HDD78SAY99R20X	6HDD78PAY99R20X


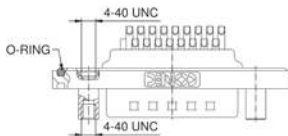
Clip for PCB 1.6 mm, 4-40 UNC threaded insert

 	No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
						Part No. Socket contact	Part No. Plug contact
	15	3 (UL, VDE) / 2.5 (CSA)	60	E202784	3	6HDD15SAY99R40X	6HDD15PAY99R40X
	26					6HDD26SAY99R40X	6HDD26PAY99R40X
	44					6HDD44SAY99R40X	6HDD44PAY99R40X
	62					6HDD62SAY99R40X	6HDD62PAY99R40X
	78					6HDD78SAY99R40X	6HDD78PAY99R40X


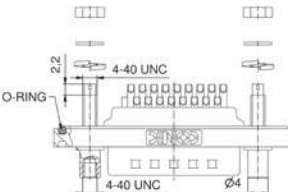
IP67 D-SUB CONNECTORS
High Density

Solder cup, precision machined contacts
Front panel mounting, AWG 22

4-40 UNC front spacer

 	No. of poles	3 (UL, VDE) / 2.5 (CSA)	Working voltage [V] 60	UL-File E202784	Quality class 3	Part No. Socket contact	Part No. Plug contact
	15					6HDD15SAM99B50X	6HDD15PAM99B50X
	26					6HDD26SAM99B50X	6HDD26PAM99B50X
	44					6HDD44SAM99B50X	6HDD44PAM99B50X
	62					6HDD62SAM99B50X	6HDD62PAM99B50X
78	6HDD78SAM99B50X	6HDD78PAM99B50X					


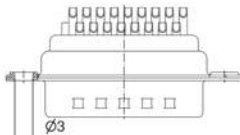
4-40 UNC Front spacer and rear mounting stud

 	No. of poles	3 (UL, VDE) / 2.5 (CSA)	Working voltage [V] 60	UL-File E202784	Quality class 3	Part No. Socket contact	Part No. Plug contact
	15					6HDD15SAM99B70X	6HDD15PAM99B70X
	26					6HDD26SAM99B70X	6HDD26PAM99B70X
	44					6HDD44SAM99B70X	6HDD44PAM99B70X
	62					6HDD62SAM99B70X	6HDD62PAM99B70X
78	6HDD78SAM99B70X	6HDD78PAM99B70X					

IP67 D-SUB CONNECTORS
High Density

Solder cup, precision machined contacts
Hood Assembly, AWG 22


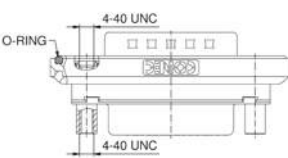
Through-hole Ø 3 mm

 	No. of poles	3 (UL, VDE) / 2.5 (CSA)	Working voltage [V] 60	UL-File E202784	Quality class 3	Part No. Socket contact	Part No. Plug contact
	15					4HDD15SAM99A10X	4HDD15PAM99A10X
	26					4HDD26SAM99A10X	4HDD26PAM99A10X
	44					4HDD44SAM99A10X	4HDD44PAM99A10X
	62					4HDD62SAM99A10X	4HDD62PAM99A10X
78	4HDD78SAM99A10X	4HDD78PAM99A10X					

IP67 D-SUB CONNECTORS
Standard

Interface adapter, connector saver
Plug connector - socket connector

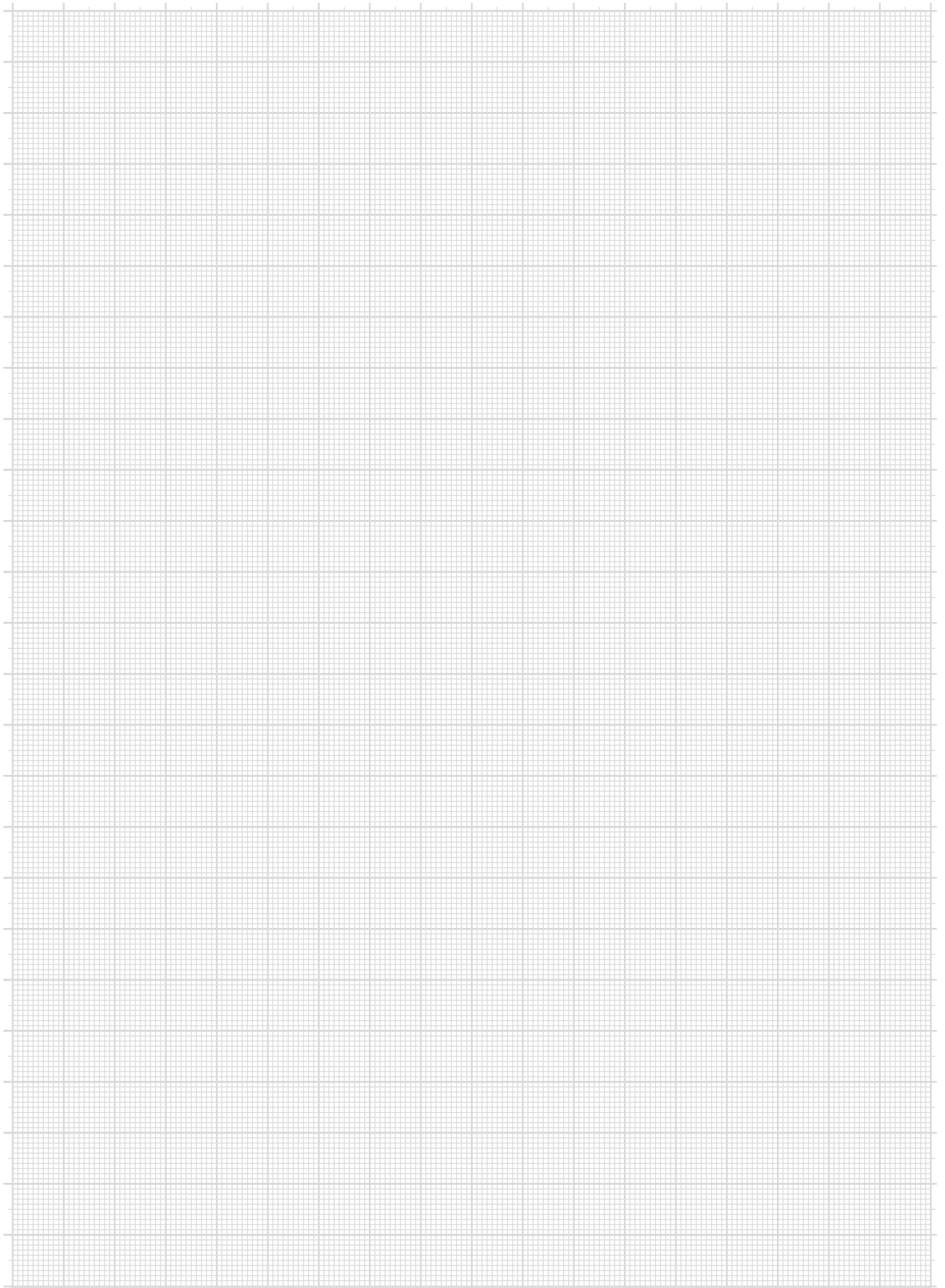
4-40 UNC threaded rear spacer

 	No. of poles	7.5 (UL) / 5 (CSA, VDE)	Working voltage [V] 125	UL-File E202784	Quality class 3	Part No. Socket contact
	09					6STD09AAA99B90X
	15					6STD15AAA99B90X
	25					6STD25AAA99B90X
37	6STD37AAA99B90X					

Shell: Brass tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

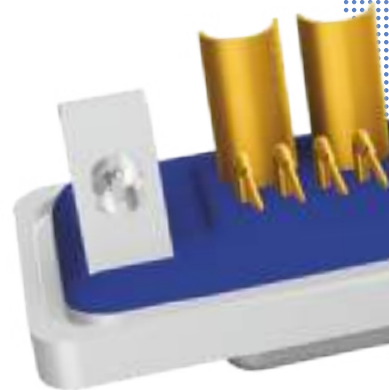
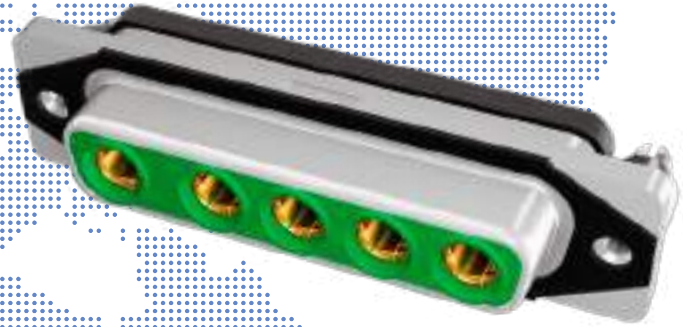
Shell: Brass tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Stainless steel
• Quality class 1 (C) = 500 mating cycles

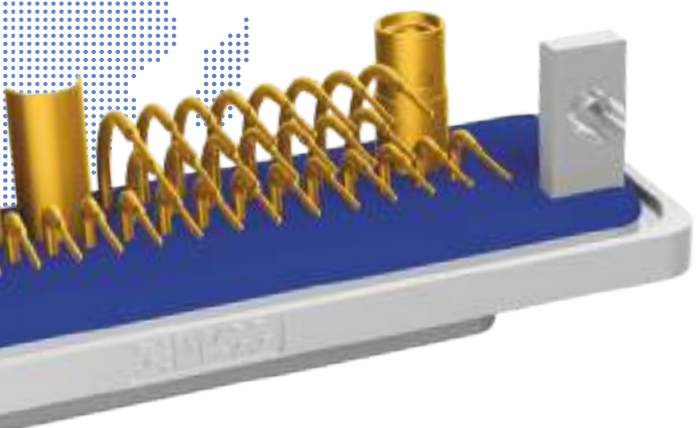
Shell: Brass tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Stainless steel
• Quality class 1 (C) = 500 mating cycles



SECTION 7

IP67 COMBINATION D-SUB CONNECTORS





IP67 COMBINATION D-SUB CONNECTORS

Part Number Creator

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

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 20A
- R3 = Screw Crimp 30A
- R4 = Screw Crimp 40A

Mounting style

- A1 = Riveted through hole for hood assembly
- B3 = 4-40 UNC threaded insert
- B5 = 4-40 UNC front spacer
- E2 = 4-40 UNC threaded rear spacer with PCB clip, PCB .063" 1.60 mm
- S2 = Metal bracket, 4-40 UNC threaded insert
- S4 = Metal bracket, 4-40 UNC threaded insert and PCB clip
- R2 = Metal bracket, 4-40 UNC threaded insert
- R4 = Metal bracket, 4-40 UNC threaded insert PCB clip

- OX = Standard

IP67 COMBINATION D-SUB CONNECTORS

Product specification Standard

Basic material	Connectors with			
	Signal contacts	Coaxial contacts	High power contacts	
Contact	Copper alloy			
Contact plating	Flash gold over nickel			
Insulator (Connector)	PBT GF UL 94 V-0 (Connectors)			
Insulator (Contacts)	PTFE/PBTP/PI (Contacts)			
Shell	Brass tin plated (Stainless steel on request)			
Retaining clip	Copper alloy			
Technical Data				
Test voltage	1000 V, 50 Hz, 1 min.	750 V, 50 Hz, 1 min.	1000 V, 50 Hz, 1 min.	
Working voltage	250 V AC/DC depending on isolation coordination refer to DIN VDE 0110 / IEC 664-1			
Current rating	7.5 A (UL) / 5 A (CSA, VDE)	2 A	10 - 40 A (UL)	
Resistance between mated contacts	max. 10 mΩ	max. 2.7 mΩ	max. 1 mΩ	
Insulation resistance	≥ 5 GΩ	≥ 1 GΩ	≥ 5 GΩ	
Characteristic impedance		50/75 Ω		
Frequency range		0-2 GHz		
VSWR-value according MIL-C-39012		≤ 1.2 @ 1.2 GHz ≤ 1.3 @ 1.5 GHz ≤ 1.5 @ 2.0 GHz		
Operating temperature	- 25 °C to + 105 °C			
Mounting style Front or rear panel mounting Panel thickness	min. 1 mm to 1.6 mm			
Insertion force per contact	3.4 N	7 N	7 N	
Extraction force per contact	0.2 N	7 N	approx. 5 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	
	Temperature	duration	max. Solder bath temperature	max. terminal immersion time
IP67 Combination D-SUB Standard	120 °C	120 s	240 °C	5 s

Technical specifications are subject to change without notice

IP67 COMBINATION D-SUB CONNECTORS

Product specification Solid Body

Basic material	Solid Body Connectors with			
	D-SUB signal contacts	HD-SUB signal contacts	Coaxial contacts	High power contacts
Contact	Copper alloy			
Contact plating	Flash gold over nickel			
Insulator (Connector)	PBT GF UL 94 V-0			
Insulator (Contacts)			PBT GF UL 94 V-0	
Shell	Zinc die-cast nickel plated			
Retaining clip			Copper alloy	
Technical Data				
Test voltage	1000 V, 50 Hz, 1 min.	1000 V, 50 Hz, 1 min.	750 V, 50 Hz, 1 min.	1000 V, 50 Hz, 1 min.
Working voltage	250 V AC/DC	60 V AC/DC	250 V AC/DC	250 V AC/DC
	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)	2 A	10 - 40 A (UL)
Resistance between mated contacts	max. 10 mΩ	max. 10 mΩ	max. 2.7 mΩ	max. 1 mΩ
Insulation resistance	≥ 5 GΩ	max. 10 mΩ	≥ 1 GΩ	≥ 5 GΩ
Characteristic impedance			50/75 Ω	
Frequency range			0-2 GHz	
VSWR-value according MIL-C-39012			≤ 1.2 @ 1.2 GHz ≤ 1.3 @ 1.5 GHz ≤ 1.5 @ 2.0 GHz	
Operating temperature	- 40 °C to + 105 °C			
Mounting style Front or rear panel mounting Panel thickness	min. 1 mm to 1.6 mm			
Insertion force per contact	3.4 N	3.4 N	7 N	7 N
Extraction force per contact	0.2 N	0.2 N	7 N	approx. 5 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	
	Temperature	duration	max. Solder bath temperature	max. terminal immersion time
IP67 Combination D-SUB Solid Body	150 °C	180 s	265 °C	8 s

Technical specifications are subject to change without notice

IP67 COMBINATION D-SUB CONNECTORS

Product specification CONEC SlimCon

Basic material	CONEC SlimCon Connectors with			
	D-SUB signal contacts	HD-SUB signal contacts	Coaxial contacts	High power contacts
Contact	Copper alloy			
Contact plating	Flash gold over nickel			
Insulator	PBT GF UL 94 V-0			
Insulator			PTFE/PBTP/PI	
Shell	Zinc die-cast nickel plated			
Retaining clip			Copper alloy	
Technische Daten				
Test voltage	1000 V, 50 Hz, 1 min.	1000 V, 50 Hz, 1 min.	750 V, 50 Hz, 1 min.	1000 V, 50 Hz, 1 min.
Working voltage	250 V AC/DC	60 V AC/DC	250 V AC/DC	250 V AC/DC
	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)	2 A	10 - 40 A (UL)
Resistance between mated contacts	max. 10 mΩ	max. 10 mΩ	max. 2.7 mΩ	max. 1 mΩ
Insulation resistance	≥ 5 GΩ	max. 10 mΩ	≥ 1 GΩ	≥ 5 GΩ
Characteristic impedance			50/75 Ω	
Frequency range			0-2 GHz	
VSWR-value according MIL-C-39012			≤ 1.2 @ 1.2 GHz ≤ 1.3 @ 1.5 GHz ≤ 1.5 @ 2.0 GHz	
Operating temperature	- 40 °C bis + 105 °C			
Mounting style Front or rear panel mounting Panel thickness	min. 0.8 mm to 1.3 mm			
Insertion force per contact	3.4 N	3.4 N	7 N	7 N
Extraction force per contact	0.2 N	0.2 N	7 N	approx. 5 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	
	Temperature	duration	max. Solder bath temperature	max. terminal immersion time
IP67 Combination D-SUB CONEC SlimCon	150 °C	180 s	265 °C	8 s

Technical specifications are subject to change without notice

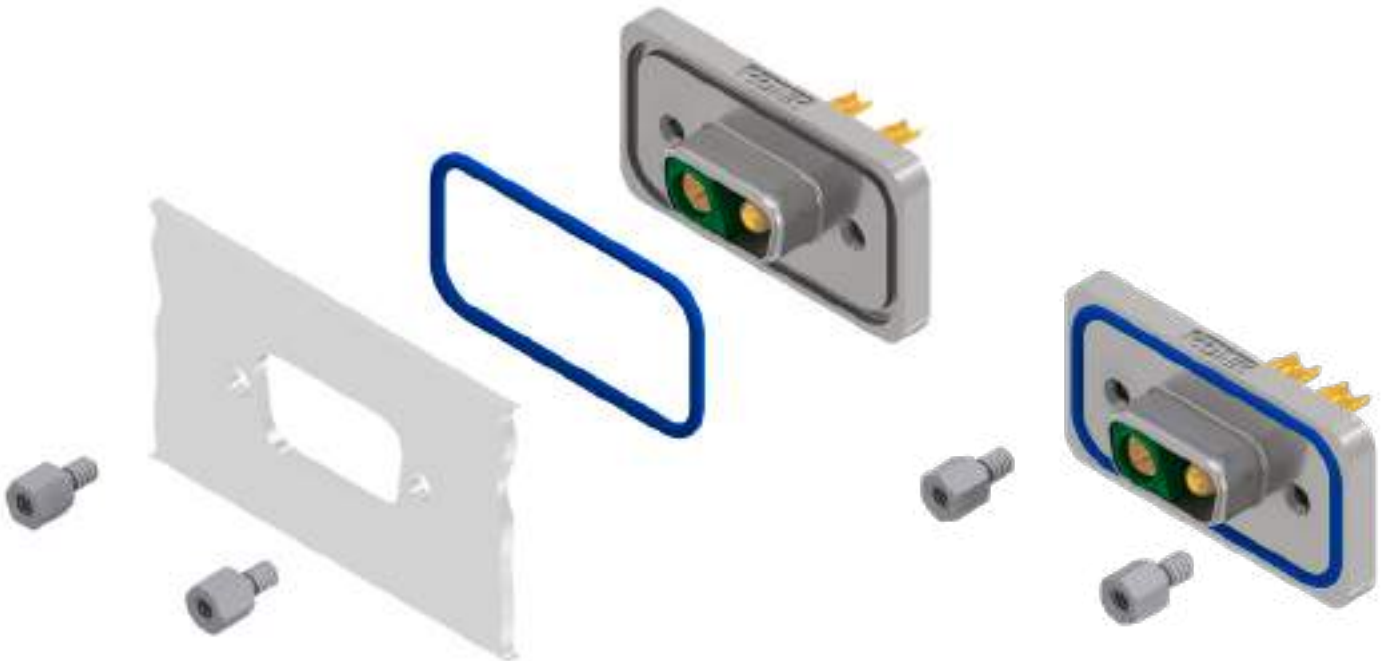
IP67 COMBINATION D-SUB CONNECTORS

Panel mounting

Front panel mounting



Back panel mounting



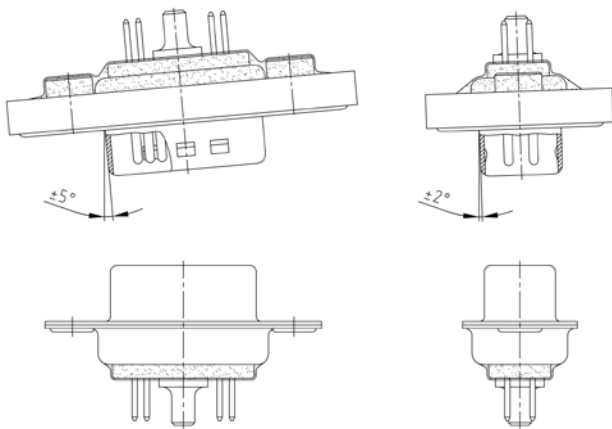
The hex bolts illustrated here (4-40 UNC or M3 threads) are included in the delivery complement of every connector with a sealing frame. The length of this spacer has been selected to accommodate a panel thickness of .063"/1.6 mm (standard & solid body)/.051"/1.3 mm (CONEC SlimCon) such that it does not extend beyond the plug-in height. Material: stainless steel.

Technical specifications are subject to change without notice.

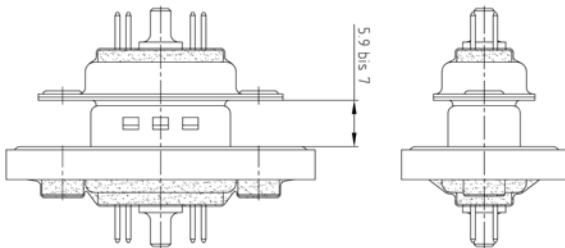
IP67 COMBINATION D-SUB CONNECTORS

Mating conditions

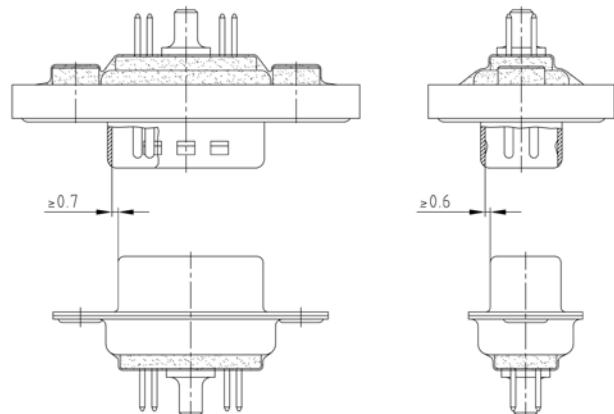
Max. tilt angle for connector mating



Range for safe contact

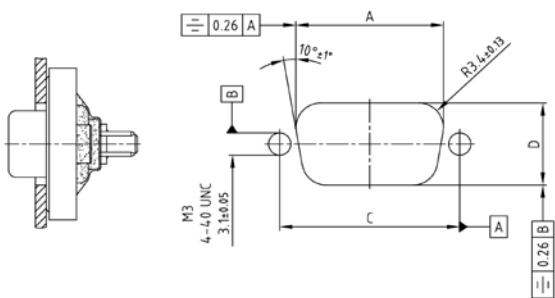


Lock-in range

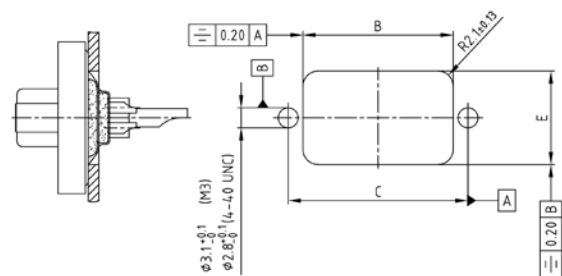


Panel cut-out

Back panel mounting



Front panel mounting



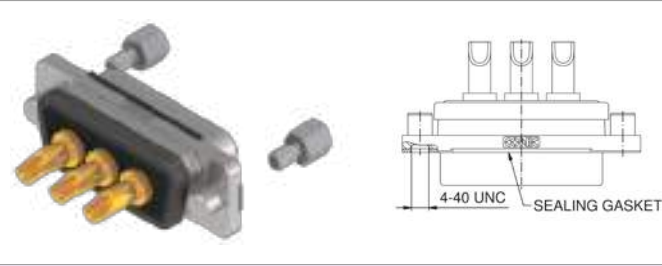
Shell size	A ± 0.1	B ± 0.1	C ± 0.1	D ± 0.1	E ± 0.1
1	20.50	20.90	25.00	11.40	13.00
2	28.80	29.20	33.30	11.40	13.00
3	42.50	42.90	47.04	11.40	13.00
4	59.10	59.40	63.50	11.40	13.00
5	56.30	57.00	61.10	14.10	15.80

Technical specifications are subject to change without notice.

IP67 COMBINATION D-SUB CONNECTORS
CONEC SlimCon with high power contacts 20 A

Solder cup straight
 Precision machined contacts, AWG 12-14

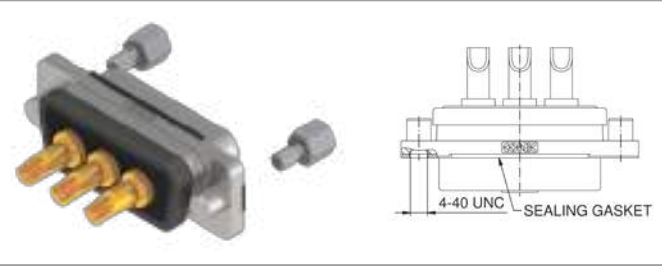
4-40 UNC threaded insert



No. of poles	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	20	250	3	15-007953	15-008083
5W5				15-007963	15-008093

One-piece zinc die-cast nickel plated shell
 Quality class 3 (A) = 50 mating cycles
 Stainless steel hex bolts are supplied loose
 On request:
 • Quality class 1 (C) = 500 mating cycles

4-40 UNC threaded insert, coded version

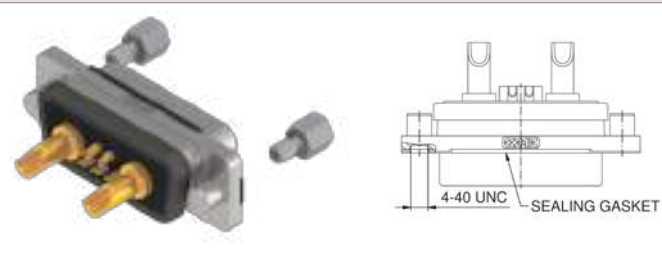


2W2C	20	250	3	15-007933	
3W3C				15-007943	15-008073

IP67 COMBINATION D-SUB CONNECTORS
CONEC SlimCon with signal contacts & high power contacts 20 A

Solder cup straight
 Precision machined contacts, AWG 20 and AWG 12-14

4-40 UNC threaded insert



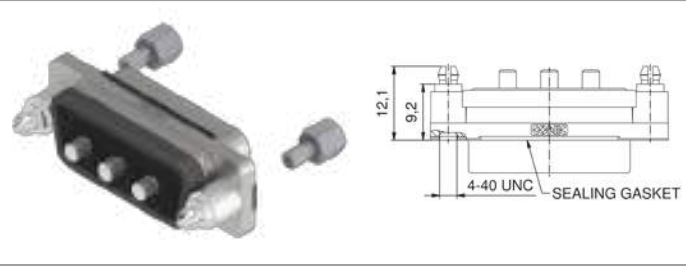
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
7W2	75 (UL) / 5 (CSA VDE)	20	250	3	15-007973	15-008103

One-piece zinc die-cast nickel plated shell
 Quality class 3 (A) = 50 mating cycles
 Stainless steel hex bolts are supplied loose
 On request:
 • Quality class 1 (C) = 500 mating cycles

IP67 COMBINATION D-SUB CONNECTORS
CONEC SlimCon with high power contacts 20 A

Solder pin straight
 Precision machined contacts

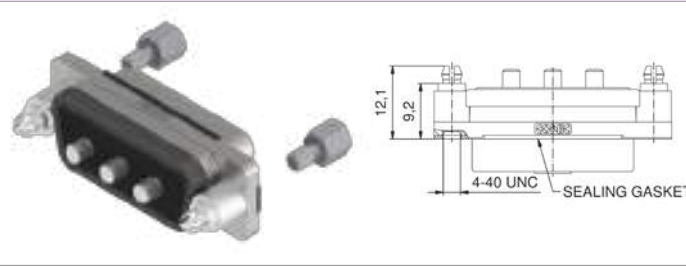
4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm



No. of poles	Current rating high power contacts [A]	Betriebsspannung [V]	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	20	250	3	15-007083	15-007213
5W5				15-007093	15-007223

One-piece zinc die-cast nickel plated shell
 Quality class 3 (A) = 50 mating cycles
 Stainless steel hex bolts are supplied loose
 On request:
 • Quality class 1 (C) = 500 mating cycles

4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm, coded version

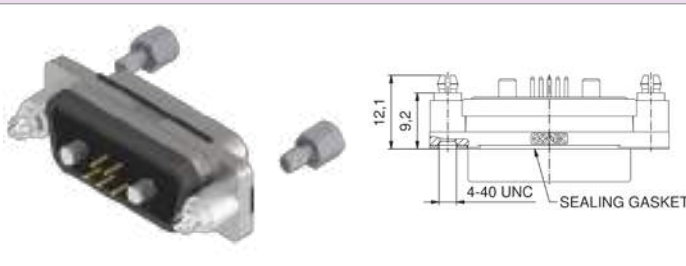


2W2C	20	250	3	15-007063	
3W3C				15-007073	15-007203

IP67 COMBINATION D-SUB CONNECTORS
CONEC SlimCon with signal contacts & high power contacts 20 A

Solder pin straight
 Precision machined contacts

4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm



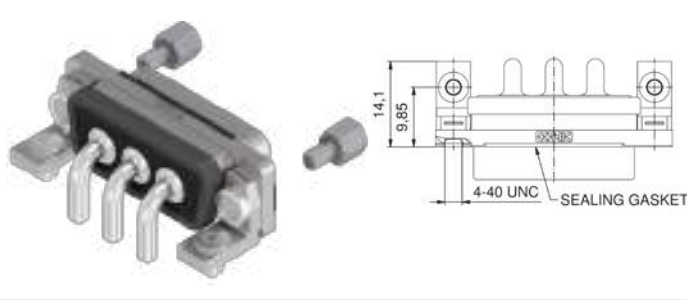
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
7W2	75 (UL) / 5 (CSA VDE)	20	250	3	15-007103	15-007233

One-piece zinc die-cast nickel plated shell
 Quality class 3 (A) = 50 mating cycles
 Stainless steel hex bolts are supplied loose
 On request:
 • Quality class 1 (C) = 500 mating cycles

IP67 COMBINATION D-SUB CONNECTORS
CONEC SlimCon with high power contacts 20 A

Solder pin angled
 Precision machined contacts, metal bracket

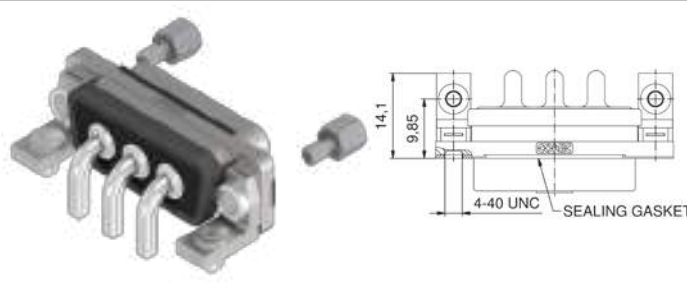
Mounting bracket PCB clip



No. of poles	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	20	250	3	15-007353	15-007483
5W5				15-007363	15-007493

One-piece zinc die-cast nickel plated shell
 Quality class 3 (A) = 50 mating cycles
 Stainless steel hex bolts are supplied loose
 On request:
 • Quality class 1 (C) = 500 mating cycles

Mounting bracket PCB clip, coded version

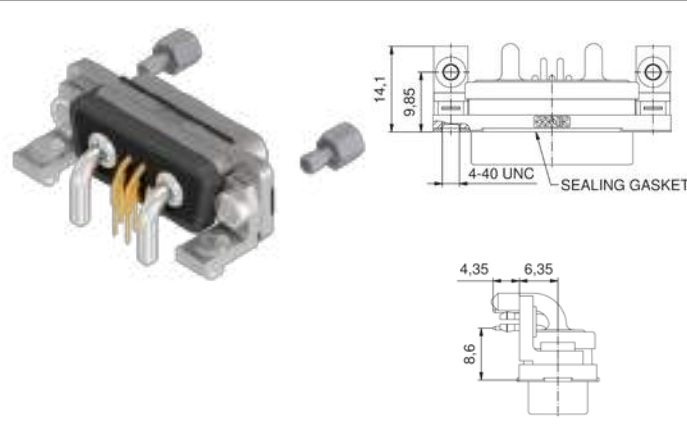


2W2C	20	250	3	15-007333	
3W3C				15-007343	15-007483

IP67 COMBINATION D-SUB CONNECTORS
CONEC SlimCon with signal contacts & high power contacts 20 A

Solder pin angled, .338"/8.6 mm
 Precision machined contacts, metal bracket

Mounting bracket PCB clip




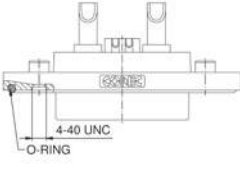
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
7W2	7.5 (UI) / 5 (CSA VDE)	20	250	3	15-007373	15-007503

One-piece zinc die-cast nickel plated shell
 Quality class 3 (A) = 50 mating cycles
 Stainless steel hex bolts are supplied loose
 On request:
 • Quality class 1 (C) = 500 mating cycles

IP67 COMBINATION D-SUB CONNECTORS
Solid Body with signal & high power contacts 20 A

Solder cup straight
Precision machined contacts, AWG 20 and AWG 12-14


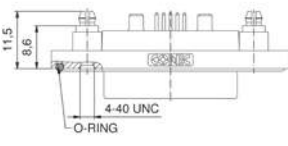
4-40 UNC threaded insert

Part No. Socket contact	Part No. Plug contact	Quality class	Working voltage [V]	Current rating high power contacts [A]	Current rating signal contacts [A]	No. of poles	4-40 UNC threaded insert	
							Image	Technical drawing
15-005063	15-005193	3	250	20	75 (UL) / 5 (CSA VDE)			
15-001103	15-004643							
15-005073	15-005203							
15-005083	15-005213							
15-004563	15-004553							
15-004453	15-004543							
15-005093	15-005223							
15-005103	15-005233							
15-005113	15-005243							
15-005123	15-005253							
15-005133	15-005263							
15-005143	15-005273							
15-005153	15-005283							
15-005163	15-005293							
15-005173	15-005303							
15-005183	15-005313							

One-piece zinc die-cast nickel plated shell
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Quality class 1 (C) = 500 mating cycles

Solder pin straight
Precision machined contacts

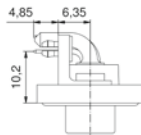
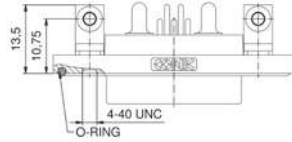
4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm

Part No. Socket contact	Part No. Plug contact	Quality class	Working voltage [V]	Current rating high power contacts [A]	Current rating signal contacts [A]	No. of poles	4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm	
							Image	Technical drawing
15-005323	15-005473	3	250	20	75 (UL) / 5 (CSA VDE)			
15-001823	15-001863							
15-005333	15-005483							
15-005343	15-005493							
15-005353	15-005503							
15-005363	15-005513							
15-005373	15-005523							
15-005383	15-005533							
15-005393	15-005543							
15-005403	15-005553							
15-005413	15-005563							
15-005423	15-005573							
15-005433	15-005583							
15-005443	15-005593							
15-005453	15-005603							
15-005463	15-005613							

IP67 COMBINATION D-SUB CONNECTORS
Solid Body with signal & high power contacts 20 A

Solder pin angled, .402"/10.2 mm
Precision machined contacts, metal bracket

Mounting bracket PCB clip



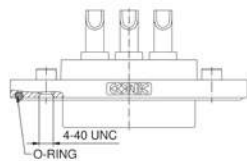
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA VDE)	20	250	3	15-005623	15-005763
7W2					15-001463	15-001503
11W1					15-005633	15-005773
9W4					15-005643	15-005783
13W3					15-005653	15-005793
17W2					15-005663	15-002323
21W1					15-005673	15-005803
13W6					15-005683	15-005813
17W5					15-005693	15-005823
21WA4					15-005703	15-005833
25W3					15-005713	15-002333
27W2					15-005723	15-005843
24W7					15-005733	15-005853
36W4					15-005743	15-002293
43W2					15-004593	15-005863
47W1					15-005753	15-005873

One-piece zinc die-cast nickel plated shell
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Quality class 1 (C) = 500 mating cycles

IP67 COMBINATION D-SUB CONNECTORS
Solid Body with high power contacts 20 A

Solder cup straight
Precision machined contacts, AWG 12-14

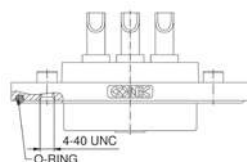
4-40 UNC threaded insert



No. of poles	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
3W3	20	250	3	15-001083	15-001123
5W5				15-001093	15-001133
8W8				15-001613	15-001653

One-piece zinc die-cast nickel plated shell
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Quality class 1 (C) = 500 mating cycles

4-40 UNC threaded insert, coded version

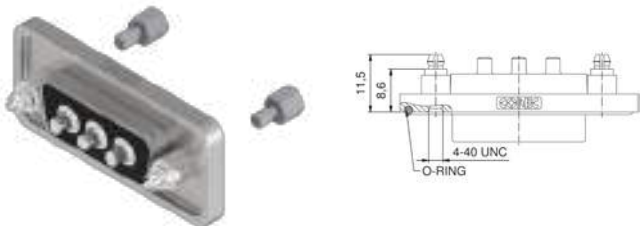


2W2C	20	250	3	15-001063	
3W3C				15-001073	15-001113

IP67 COMBINATION D-SUB CONNECTORS
Solid Body with high power contacts 20 A

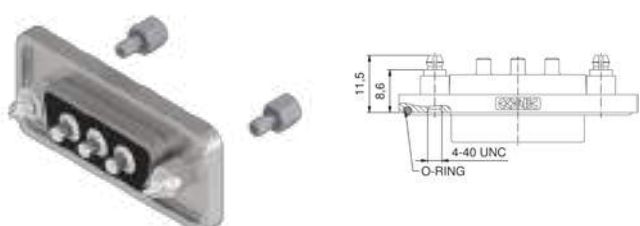
Solder pin straight
Precision machined contacts

4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm

	No. of poles	Current rating high power contacts [A]	Betriebsspannung [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	3W3				15-001803	15-001843
	5W5	20	250	3	15-001813	15-001853
	8W8				15-002023	

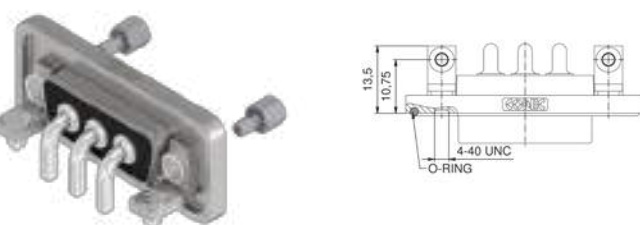
One-piece zinc die-cast nickel plated shell
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Quality class 1 (C) = 500 mating cycles

4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm

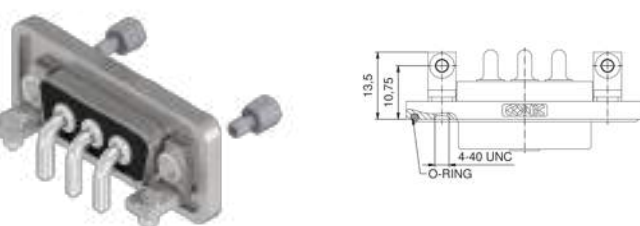
	No. of poles	Current rating high power contacts [A]	Betriebsspannung [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	8W8				15-001783	15-001833
	3W3C	20	250	3	15-001793	15-005883

Solder pin angled
Precision machined contacts, metal bracket

Mounting bracket PCB clip

	No. of poles	Current rating high power contacts [A]	Betriebsspannung [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	3W3				15-001443	15-001483
	5W5	20	250	3	15-001453	15-001493
	8W8				15-001963	15-001993


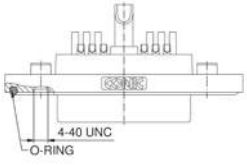
Mounting bracket PCB clip

	No. of poles	Current rating high power contacts [A]	Betriebsspannung [V]	Quality class	Part No. Socket contact	Part No. Plug contact
	2W2C				15-001423	
	3W3C	20	250	3	15-001433	15-001473

IP67 COMBINATION D-SUB CONNECTORS
Solid Body with signal & high power contacts 20 A

Solder cup straight
Precision machined contacts, AWG 12-14


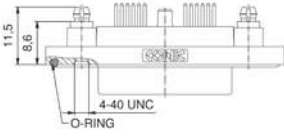
4-40 UNC threaded insert

		No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
		15W4	3 (UL, VDE) / 2.5 (CSA)	20	60	3	15-005893	15-005923
		19W1					15-005903	15-005933
		45W2					15-005913	15-005943

One-piece zinc die-cast nickel plated shell
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Quality class 1 (C) = 500 mating cycles


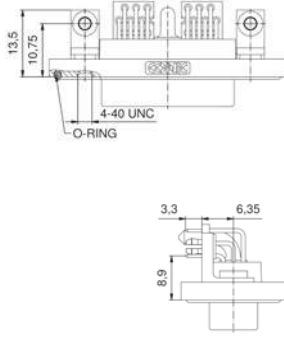
Solder pin straight
Precision machined contacts

4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm

		No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
		15W4	3 (UL, VDE) / 2.5 (CSA)	20	60	3	15-005953	15-005983
		19W1					15-005963	15-005993
		45W2					15-005973	15-006003

Solder pin angled
Precision machined contacts, metal bracket


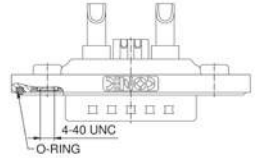
Mounting bracket PCB clip

		No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	Quality class	Part No. Socket contact	Part No. Plug contact
		15W4	3 (UL, VDE) / 2.5 (CSA)	20	60	3	15-006013	15-006043
		19W1					15-006023	15-006053
		45W2					15-006033	15-006063

IP67 COMBINATION D-SUB CONNECTORS
With signal & high power contacts 10 A

Solder cup
Precision machined contacts, AWG 20

4-40 UNC threaded insert

4-40 UNC threaded insert		No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	5W1	75 (UI) / 5 (CSA, VDE)	10	250	E202784	3	6005W1SAM61 B30X	6005W1PAM61 B30X	
	7W2						6007W2SAM61 B30X	6007W2PAM61 B30X	
	11W1						6011W1SAM61 B30X	6011W1PAM61 B30X	
	9W4						6009W4SAM61 B30X	6009W4PAM61 B30X	
	13W3						6013W3SAM61 B30X	6013W3PAM61 B30X	
	17W2						6017W2SAM61 B30X	6017W2PAM61 B30X	
	21W1						6021W1SAM61 B30X	6021W1PAM61 B30X	
	13W6						6013W6SAM61 B30X	6013W6PAM61 B30X	
	17W5						6017W5SAM61 B30X	6017W5PAM61 B30X	
	21WA4						621WA4SAM61 B30X	621WA4PAM61 B30X	
	25W3						6025W3SAM61 B30X	6025W3PAM61 B30X	
	27W2						6027W2SAM61 B30X	6027W2PAM61 B30X	
	24W7						6024W7SAM61 B30X	6024W7PAM61 B30X	
	36W4						6036W4SAM61 B30X	6036W4PAM61 B30X	
	43W2						6043W2SAM61 B30X	6043W2PAM61 B30X	
	47W1						6047W1SAM61 B30X	6047W1PAM61 B30X	


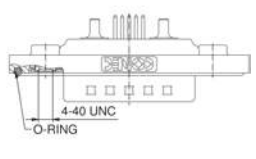
Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Shell: Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

For other Power contacts select code from spread sheet		
Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A

IP67 COMBINATION D-SUB CONNECTORS
With signal & high power contacts 20 A

Solder pin straight
Precision machined contacts

4-40 UNC threaded insert

4-40 UNC threaded insert		No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
 	5W1	75 (UI) / 5 (CSA, VDE)	20	250	E202784	3	6005W1SAR68B30X	6005W1PAR68B30X	
	7W2						6007W2SAR68B30X	6007W2PAR68B30X	
	11W1						6011W1SAR68B30X	6011W1PAR68B30X	
	9W4						6009W4SAR68B30X	6009W4PAR68B30X	
	13W3						6013W3SAR68B30X	6013W3PAR68B30X	
	17W2						6017W2SAR68B30X	6017W2PAR68B30X	
	21W1						6021W1SAR68B30X	6021W1PAR68B30X	
	13W6						6013W6SAR68B30X	6013W6PAR68B30X	
	17W5						6017W5SAR68B30X	6017W5PAR68B30X	
	21WA4						621WA4SAR68B30X	621WA4PAR68B30X	
	25W3						6025W3SAR68B30X	6025W3PAR68B30X	
	27W2						6027W2SAR68B30X	6027W2PAR68B30X	
	24W7						6024W7SAR68B30X	6024W7PAR68B30X	
	36W4						6036W4SAR68B30X	6036W4PAR68B30X	
	43W2						6043W2SAR68B30X	6043W2PAR68B30X	
	47W1						6047W1SAR68B30X	6047W1PAR68B30X	

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Shell: Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread


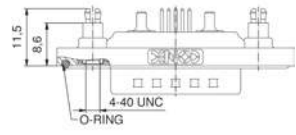
For other Power contacts select code from spread sheet		
Code	Current rating	Diameter solder pin
68	20 A	1.95
69	20 A	2.60
70	20 A	2.85
71	30 A	3.18
72	40 A	3.75

IP67 COMBINATION D-SUB CONNECTORS
With signal & high power contacts 20 A

Solder pin straight
Precision machined contacts, threaded rear spacer with PCB clip

4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm

No. of poles		Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1		75 (UL) / 5 (CSA VDE)	20	250	E202784	3	6005W1SAR68E20X	6005W1PAR68E20X
7W2							6007W2SAR68E20X	6007W2PAR68E20X
11W1							6011W1SAR68E20X	6011W1PAR68E20X
9W4							6009W4SAR68E20X	6009W4PAR68E20X
13W3							6013W3SAR68E20X	6013W3PAR68E20X
17W2							6017W2SAR68E20X	6017W2PAR68E20X
21W1							6021W1SAR68E20X	6021W1PAR68E20X
13W6							6013W6SAR68E20X	6013W6PAR68E20X
17W5							6017W5SAR68E20X	6017W5PAR68E20X
21WA4							621WA4SAR68E20X	621WA4PAR68E20X
25W3							6025W3SAR68E20X	6025W3PAR68E20X
27W2							6027W2SAR68E20X	6027W2PAR68E20X
24W7							6024W7SAR68E20X	6024W7PAR68E20X
36W4							6036W4SAR68E20X	6036W4PAR68E20X
43W2							6043W2SAR68E20X	6043W2PAR68E20X
47W1							6047W1SAR68E20X	6047W1PAR68E20X

For other Power contacts select code from spread sheet

Code	Current rating	Diameter solder pin
68	20 A	1.95
69	20 A	2.60
70	20 A	2.85
71	30 A	3.18
72	40 A	3.75

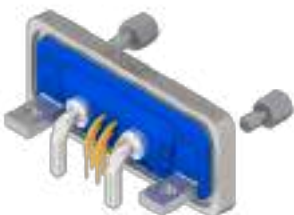
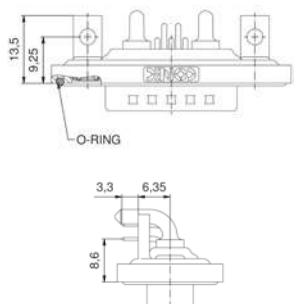
Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Shell: Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

IP67 COMBINATION D-SUB CONNECTORS
With signal & high power contacts 15 A

Solder pin angled, .338"/8.6 mm
Precision machined contacts, metal bracket

4-40 UNC threaded insert

No. of poles		Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1		75 (UL) / 5 (CSA VDE)	15	250	E202784	3	6005W1SAT59S20X	6005W1PAT59S20X
7W2							6007W2SAT59S20X	6007W2PAT59S20X
11W1							6011W1SAT59S20X	6011W1PAT59S20X
9W4							6009W4SAT59S20X	6009W4PAT59S20X
13W3							6013W3SAT59S20X	6013W3PAT59S20X
17W2							6017W2SAT59S20X	6017W2PAT59S20X
21W1							6021W1SAT59S20X	6021W1PAT59S20X
13W6							6013W6SAT59S20X	6013W6PAT59S20X
17W5							6017W5SAT59S20X	6017W5PAT59S20X
21WA4							621WA4SAT59S20X	621WA4PAT59S20X
25W3							6025W3SAT59S20X	6025W3PAT59S20X
27W2							6027W2SAT59S20X	6027W2PAT59S20X
24W7							6024W7SAT81S20X	6024W7PAT81S20X
36W4							6036W4SAT81S20X	6036W4PAT81S20X
43W2							6043W2SAT81S20X	6043W2PAT81S20X
47W1							6047W1SAT81S20X	6047W1PAT81S20X

For other Power contacts select code from spread sheet

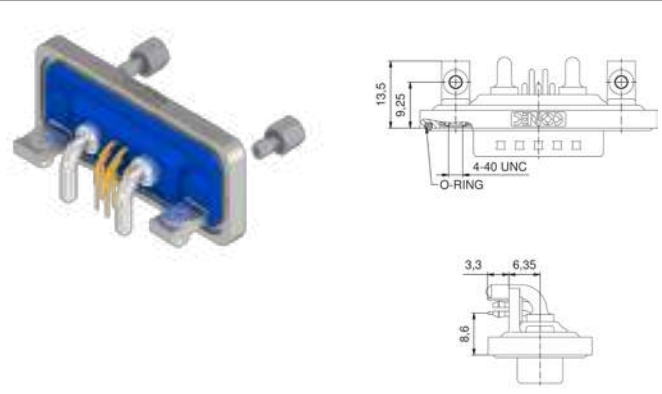
Code	Shellsize	Current rating	Diameter solder pin
59	1-4	15 A	1.90
73	1-4	20 A	2.85
74	1-4	30 A	3.20
75	1-4	40 A	3.75
81	5	20 A	2.85
82	5	30 A	3.20
85	5	30 A	3.20
77	5	40 A	3.75

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Shell: Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

IP67 COMBINATION D-SUB CONNECTORS
With signal & high power contacts 15 A

Solder pin angled, .338"/8.6 mm
Precision machined contacts, metal bracket with PCB clip

Clip for PCB 1.6 mm, 4-40 UNC threaded insert



For other Power contacts select code from spread sheet

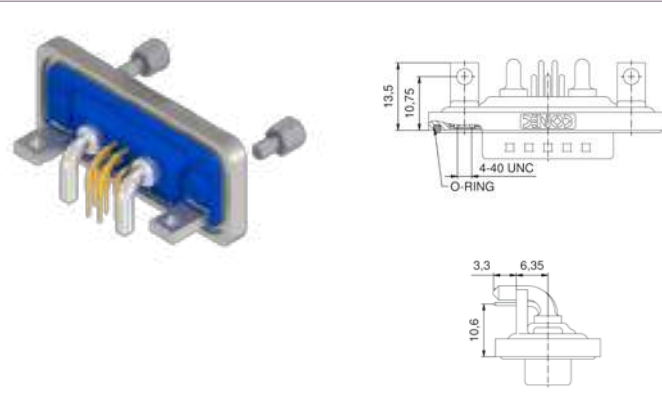
Code	Shellsize	Current rating	Diameter solder pin
59	1-4	15 A	1.90
73	1-4	20 A	2.85
74	1-4	30 A	3.20
75	1-4	40 A	3.75
81	5	20 A	2.85
82	5	30 A	3.20
85	5	30 A	3.20
77	5	40 A	3.75

No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA VDE)	15	250	E202784	3	6005W1SAT59S40X	6005W1PAT59S40X
7W2						6007W2SAT59S40X	6007W2PAT59S40X
11W1						6011W1SAT59S40X	6011W1PAT59S40X
9W4						6009W4SAT59S40X	6009W4PAT59S40X
13W3						6013W3SAT59S40X	6013W3PAT59S40X
17W2						6017W2SAT59S40X	6017W2PAT59S40X
21W1						6021W1SAT59S40X	6021W1PAT59S40X
13W6						6013W6SAT59S40X	6013W6PAT59S40X
17W5						6017W5SAT59S40X	6017W5PAT59S40X
21WA4						621WA4SAT59S40X	621WA4PAT59S40X
25W3						6025W3SAT59S40X	6025W3PAT59S40X
27W2						6027W2SAT59S40X	6027W2PAT59S40X
24W7						6024W7SAT81S40X	6024W7PAT81S40X
36W4						6036W4SAT81S40X	6036W4PAT81S40X
43W2						6043W2SAT81S40X	6043W2PAT81S40X
47W1						6047W1SAT81S40X	6047W1PAT81S40X

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Shell: Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

Solder pin angled, .417"/10.6 mm
Precision machined contacts, metal bracket

4-40 UNC threaded insert



For other Power contacts select code from spread sheet

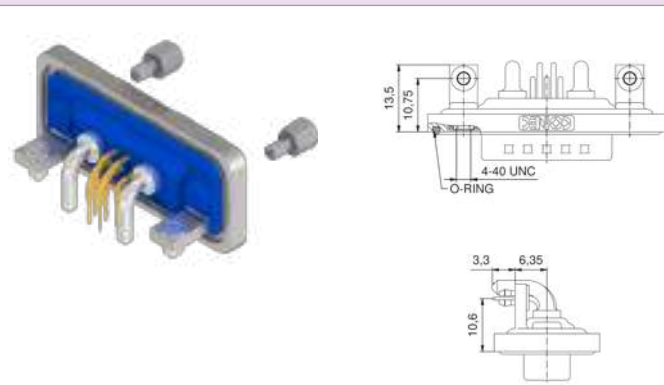
Code	Shellsize	Current rating	Diameter solder pin
59	1-4	15 A	1.90
73	1-4	20 A	2.85
74	1-4	30 A	3.20
75	1-4	40 A	3.75
81	5	20 A	2.85
82	5	30 A	3.20
85	5	30 A	3.20
77	5	40 A	3.75

No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA VDE)	15	250	E202784	3	6005W1SAU59R20X	6005W1PAU59R20X
7W2						6007W2SAU59R20X	6007W2PAU59R20X
11W1						6011W1SAU59R20X	6011W1PAU59R20X
9W4						6009W4SAU59R20X	6009W4PAU59R20X
13W3						6013W3SAU59R20X	6013W3PAU59R20X
17W2						6017W2SAU59R20X	6017W2PAU59R20X
21W1						6021W1SAU59R20X	6021W1PAU59R20X
13W6						6013W6SAU59R20X	6013W6PAU59R20X
17W5						6017W5SAU59R20X	6017W5PAU59R20X
21WA4						621WA4SAU59R20X	621WA4PAU59R20X
25W3						6025W3SAU59R20X	6025W3PAU59R20X
27W2						6027W2SAU59R20X	6027W2PAU59R20X
24W7						6024W7SAU81R20X	6024W7PAU81R20X
36W4						6036W4SAU81R20X	6036W4PAU81R20X
43W2						6043W2SAU81R20X	6043W2PAU81R20X
47W1						6047W1SAU81R20X	6047W1PAU81R20X

IP67 COMBINATION D-SUB CONNECTORS
With signal & high power contacts 15 A

Solder pin angled, .417" / 10.6 mm
Precision machined contacts, metal bracket with PCB clip

Clip for PCB 1.6 mm, 4-40 UNC threaded insert



For other Power contacts select code from spread sheet

Code	Shellsize	Current rating	Diameter solder pin
59	1-4	15 A	1.90
73	1-4	20 A	2.85
74	1-4	30 A	3.20
75	1-4	40 A	3.75
81	5	20 A	2.85
82	5	30 A	3.20
85	5	30 A	3.20
77	5	40 A	3.75

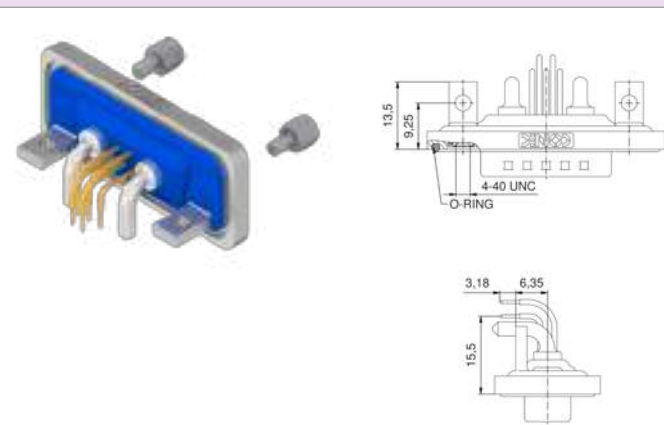
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA VDE)	15	250	E202784	3	6005W1SAU59R40X	6005W1PAU59R40X
7W2						6007W2SAU59R40X	6007W2PAU59R40X
11W1						6011W1SAU59R40X	6011W1PAU59R40X
9W4						6009W4SAU59R40X	6009W4PAU59R40X
13W3						6013W3SAU59R40X	6013W3PAU59R40X
17W2						6017W2SAU59R40X	6017W2PAU59R40X
21W1						6021W1SAU59R40X	6021W1PAU59R40X
13W6						6013W6SAU59R40X	6013W6PAU59R40X
17W5						6017W5SAU59R40X	6017W5PAU59R40X
21WA4						621WA4SAU59R40X	621WA4PAU59R40X
25W3						6025W3SAU59R40X	6025W3PAU59R40X
27W2						6027W2SAU59R40X	6027W2PAU59R40X
24W7						6024W7SAU81R40X	6024W7PAU81R40X
36W4						6036W4SAU81R40X	6036W4PAU81R40X
43W2						6043W2SAU81R40X	6043W2PAU81R40X
47W1						6047W1SAU81R40X	6047W1PAU81R40X

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Shell: Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

IP67 COMBINATION D-SUB CONNECTORS
With signal & high power contacts 15 A

Solder pin angled, .610" / 15.5 mm
Precision machined contacts, metal bracket

4-40 UNC threaded insert



For other Power contacts select code from spread sheet

Code	Shellsize	Current rating	Diameter solder pin
59	1-4	15 A	1.90
73	1-4	20 A	2.85
74	1-4	30 A	3.20
75	1-4	40 A	3.75
81	5	20 A	2.85
82	5	30 A	3.20
85	5	30 A	3.20
77	5	40 A	3.75

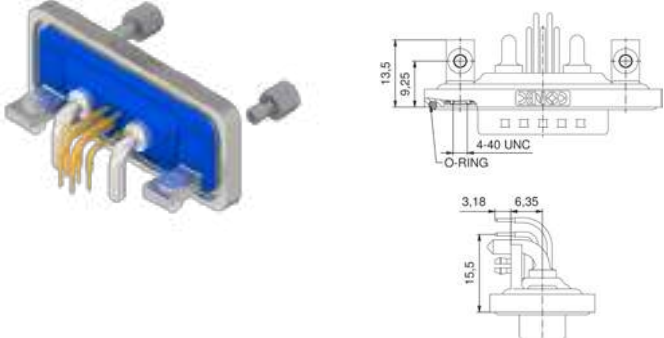
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1	75 (UL) / 5 (CSA VDE)	15	250	E202784	3	6005W1SAZ59S20X	6005W1PAZ59S20X
7W2						6007W2SAZ59S20X	6007W2PAZ59S20X
11W1						6011W1SAZ59S20X	6011W1PAZ59S20X
9W4						6009W4SAZ59S20X	6009W4PAZ59S20X
13W3						6013W3SAZ59S20X	6013W3PAZ59S20X
17W2						6017W2SAZ59S20X	6017W2PAZ59S20X
21W1						6021W1SAZ59S20X	6021W1PAZ59S20X
13W6						6013W6SAZ59S20X	6013W6PAZ59S20X
17W5						6017W5SAZ59S20X	6017W5PAZ59S20X
21WA4						621WA4SAZ59S20X	621WA4PAZ59S20X
25W3						6025W3SAZ59S20X	6025W3PAZ59S20X
27W2						6027W2SAZ59S20X	6027W2PAZ59S20X

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Shell: Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread
• Shellsize 5 on request

IP67 COMBINATION D-SUB CONNECTORS
With signal & high power contacts 15 A

Solder pin angled, .610" / 15.5 mm
Precision machined contacts, metal bracket with PCB clip

Clip for PCB 1.6 mm, 4-40 UNC threaded insert


Clip for PCB 1.6 mm, 4-40 UNC threaded insert		No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact																																							
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	7W2	6007W2SAZ59S40X	6007W2PAZ59S40X																																													
	11W1	6011W1SAZ59S40X	6011W1PAZ59S40X																																													
	9W4	6009W4SAZ59S40X	6009W4PAZ59S40X																																													
13W3	6013W3SAZ59S40X	6013W3PAZ59S40X																																														
17W2	6017W2SAZ59S40X	6017W2PAZ59S40X																																														
21W1	6021W1SAZ59S40X	6021W1PAZ59S40X																																														
13W6	6013W6SAZ59S40X	6013W6PAZ59S40X																																														
17W5	6017W5SAZ59S40X	6017W5PAZ59S40X																																														
21WA4	621WA4SAZ59S40X	621WA4PAZ59S40X																																														
25W3	6025W3SAZ59S40X	6025W3PAZ59S40X																																														
27W2	6027W2SAZ59S40X	6027W2PAZ59S40X																																														

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Shell: Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread
• Shellsize 5 on request

IP67 COMBINATION D-SUB CONNECTORS
With high power contacts 10 A


Solder cup straight
Precision machined contacts

4-40 UNC threaded insert

4-40 UNC threaded insert		No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact										
 <table border="1"> <thead> <tr> <th colspan="3">For other Power contacts select code from spread sheet</th> </tr> <tr> <th>Code</th> <th>AWG</th> <th>Current rating</th> </tr> </thead> <tbody> <tr><td>61</td><td>16-20</td><td>10 A</td></tr> <tr><td>62</td><td>12-14</td><td>20 A</td></tr> </tbody> </table>	For other Power contacts select code from spread sheet			Code	AWG	Current rating	61	16-20	10 A	62	12-14	20 A	3W3	10	E202784	3	6003W3SXX61B30X	6003W3PXX61B30X
	For other Power contacts select code from spread sheet																	
	Code	AWG	Current rating															
61	16-20	10 A																
62	12-14	20 A																
5W5	10	6005W5SXX61B30X	6005W5PXX61B30X															
8W8	250	6008W8SXX61B30X	6008W8PXX61B30X															

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Shell: Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

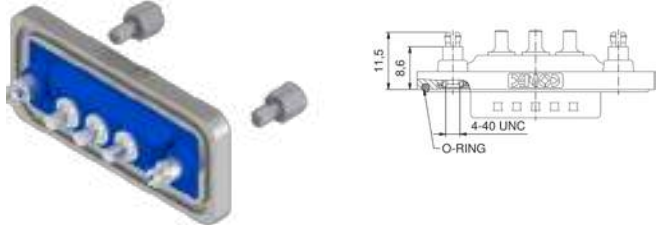
4-40 UNC threaded insert, coded version

4-40 UNC threaded insert, coded version		No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact										
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62	12-14	20 A																
3W3C	250	603W3CSXX61B30X	603W3CPXX61B30X															

IP67 COMBINATION D-SUB CONNECTORS With high power contacts 10 A

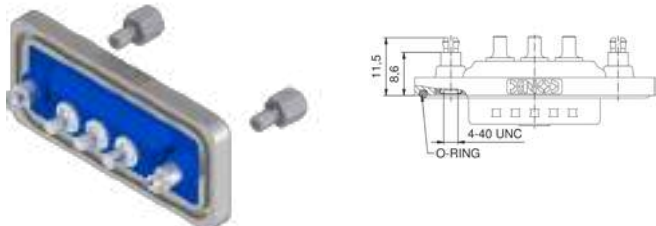
Solder pin straight
Precision machined contacts

4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm

4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm		No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact																	
	<p>For other Power contacts select code from spread sheet</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Current rating</th> <th>Diameter solder pin</th> </tr> </thead> <tbody> <tr> <td>68</td> <td>20 A</td> <td>1.95</td> </tr> <tr> <td>69</td> <td>20 A</td> <td>2.60</td> </tr> <tr> <td>70</td> <td>20 A</td> <td>2.85</td> </tr> <tr> <td>71</td> <td>30 A</td> <td>3.18</td> </tr> <tr> <td>72</td> <td>40 A</td> <td>3.75</td> </tr> </tbody> </table>	Code	Current rating	Diameter solder pin	68	20 A	1.95	69	20 A	2.60	70	20 A	2.85	71	30 A	3.18	72	40 A	3.75	3W3	250	E202784	3	6003W3SXX68E20X	6003W3PXX68E20X
		Code	Current rating	Diameter solder pin																					
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Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Shell: Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm, coded version

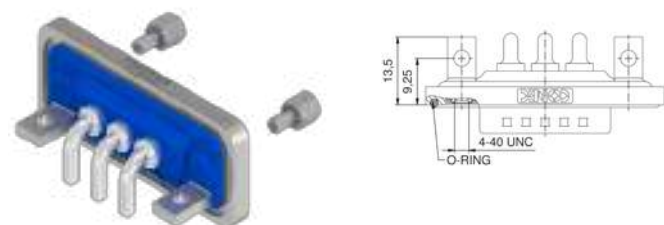
4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm, coded version		No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact																	
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3W3C	250	603W3CSXX68E20X	603W3CPXX68E20X																						

IP67 COMBINATION D-SUB CONNECTORS

With high power contacts 15 A

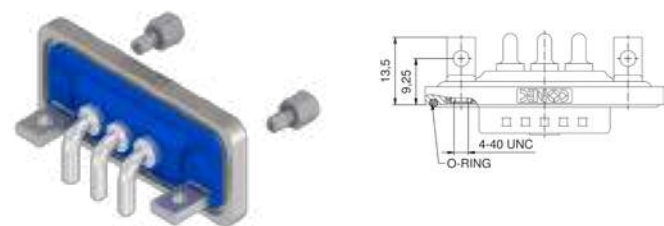
Solder pin angled
Precision machined contacts, metal bracket

4-40 UNC threaded insert

	No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact																				
	3W3		250	E202784	3	6003W3SXX59S20X	6003W3PXX59S20X																				
	5W5	15	250			6005W5SXX59S20X	6005W5PXX59S20X																				
8W8		250	6008W8SXX59S20X			6008W8PXX59S20X																					
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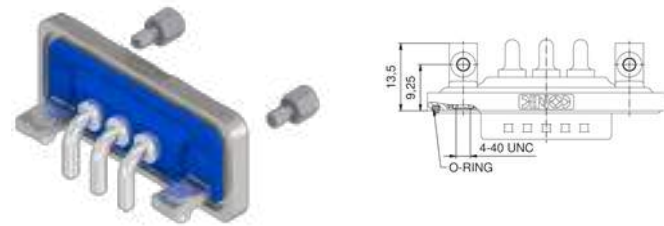
Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Shell: Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

4-40 UNC threaded insert, coded version

	No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact																				
	2W2C		250	E202784	3	602W2CSXX59S20X	602W2CPXX59S20X																				
	3W3C	15	250			603W3CSXX59S20X	603W3CPXX59S20X																				
3W3C		250	603W3CSXX59S20X			603W3CPXX59S20X																					
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Solder pin angled
Precision machined contacts, metal bracket with PCB clip

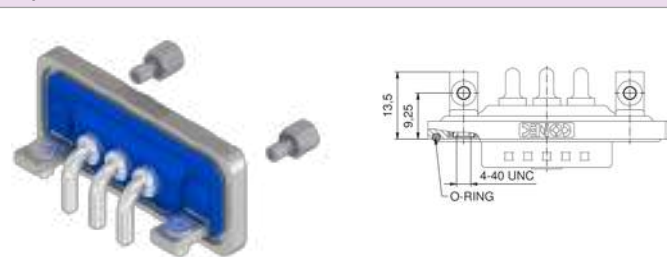
Clip for PCB 1.6 mm, 4-40 UNC threaded insert

	No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact																				
	3W3		250	E202784	3	6003W3SXX59S40X	6003W3PXX59S40X																				
	5W5	15	250			6005W5SXX59S40X	6005W5PXX59S40X																				
8W8		250	6008W8SXX59S40X			6008W8PXX59S40X																					
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IP67 COMBINATION D-SUB CONNECTORS With high power contacts 15 A

Solder pin angled
Precision machined contacts, metal bracket with PCB clip

Clip for PCB 1.6 mm, 4-40 UNC threaded insert, coded Version



For other Power contacts select code from spread sheet

Code	Shellsize	Current rating	Diameter solder pin
59	1-4	15 A	1.90
73	1-4	20 A	2.85
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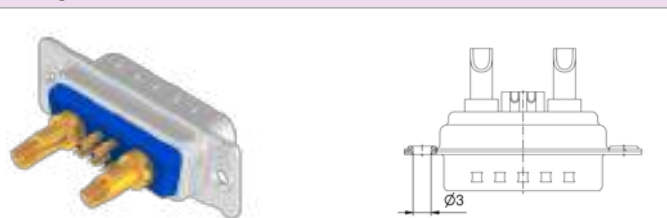
No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C	15	250	E202784	3	602W2CSXX59S40X	602W2CPXX59S40X
3W3C		250			603W3CSXX59S40X	603W3CPXX59S40X

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Shell: Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

IP67 COMBINATION D-SUB CONNECTORS Without frame, with signal & high power contacts 20 A

Solder cup straight
Precision machined contacts, design for use with hood

Through-hole \varnothing 3 mm



For other Power contacts select code from spread sheet

Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A

No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
9W4	75 (UI) / 5 (CSA VDE)	10	250	E202784	3	4005W1SAM61A10X	4005W1PAM61A10X
7W2						4007W2SAM61A10X	4007W2PAM61A10X
17W5						4011W1SAM61A10X	4011W1PAM61A10X
9W4						4009W4SAM61A10X	4009W4PAM61A10X
21W1						4013W3SAM61A10X	4013W3PAM61A10X
24W7						4017W2SAM61A10X	4017W2PAM61A10X
27W2						4021W1SAM61A10X	4021W1PAM61A10X
24W7						4013W6SAM61A10X	4013W6PAM61A10X
25W3						4017W5SAM61A10X	4017W5PAM61A10X
21WA4						421WA4SAM61A10X	421WA4PAM61A10X
43W2						4025W3SAM61A10X	4025W3PAM61A10X
47W1						4027W2SAM61A10X	4027W2PAM61A10X
36W4						4024W7SAM61A10X	4024W7PAM61A10X
21WA4						4036W4SAM61A10X	4036W4PAM61A10X
43W2						4043W2SAM61A10X	4043W2PAM61A10X
47W1						4047W1SAM61A10X	4047W1PAM61A10X

Shell: Brass tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Shell: Stainless steel
• Quality class 1 (C) = 500 mating cycles

IP67 COMBINATION D-SUB CONNECTORS
Without frame, with high power contacts 10 A

Solder cup straight
Precision machined contacts, design for use with hood

Through-hole Ø 3 mm

For other Power contacts select code from spread sheet		
Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A

No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
8W8		250	E202784	3	4003W3SXX61A10X	4003W3PXX61A10X
11W1	10	250			4005W5SXX61A10X	4005W5PXX61A10X
13W3		250			4008W8SXX61A10X	4008W8PXX61A10X

Shell: Brass tin plated
Quality class 3 (A) = 50 mating cycles
On request:
• Shell: Stainless steel
• Quality class 1 (C) = 500 mating cycles

Through-hole Ø 3 mm, coded version

For other Power contacts select code from spread sheet		
Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A

No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
2W2C		250	E202784	3	402W2CSXX61A10X	402W2CPXX61A10X
3W3C	10	250			403W3CSXX61A10X	403W3CPXX61A10X

IP67 COMBINATION D-SUB CONNECTORS
Front panel mounting, with signal & high power contacts

Solder cup straight
Precision machined contacts

Front spacer 4-40 UNC

For other Power contacts select code from spread sheet		
Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A

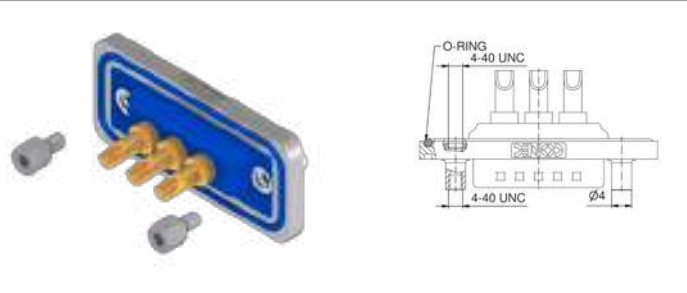
No. of poles	Current rating signal contacts [A]	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
5W1				E202784	3	6005W1SAM61B50X	6005W1PAM61B50X
7W2						6007W2SAM61B50X	6007W2PAM61B50X
11W1						6011W1SAM61B50X	6011W1PAM61B50X
9W4						6009W4SAM61B50X	6009W4PAM61B50X
13W3						6013W3SAM61B50X	6013W3PAM61B50X
17W2						6017W2SAM61B50X	6017W2PAM61B50X
21W1						6021W1SAM61B50X	6021W1PAM61B50X
13W6						6013W6SAM61B50X	6013W6PAM61B50X
17W5						6017W5SAM61B50X	6017W5PAM61B50X
21WA4						621WA4SAM61B50X	621WA4PAM61B50X
25W3						6025W3SAM61B50X	6025W3PAM61B50X
27W2						6027W2SAM61B50X	6027W2PAM61B50X
24W7						6024W7SAM61B50X	6024W7PAM61B50X
36W4						6036W4SAM61B50X	6036W4PAM61B50X
43W2						6043W2SAM61B50X	6043W2PAM61B50X
47W1						6047W1SAM61B50X	6047W1PAM61B50X

Shell: Brass tin plated
Nickel plated die-cast frame
Quality class 3 (A) = 50 mating cycles
Stainless steel hex bolts are supplied loose
On request:
• Shell: Stainless steel
• Quality class 1 (C) = 500 mating cycles
• M3 thread

IP67 COMBINATION D-SUB CONNECTORS 20 A
Front panel mounting, with high power contacts

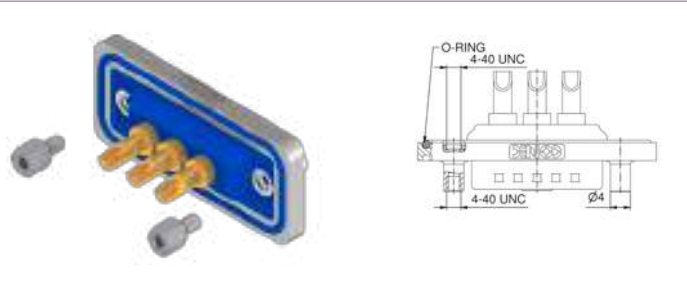
Solder cup straight
Precision machined contacts

Front spacer 4-40 UNC



For other Power contacts select code from spread sheet		
Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A

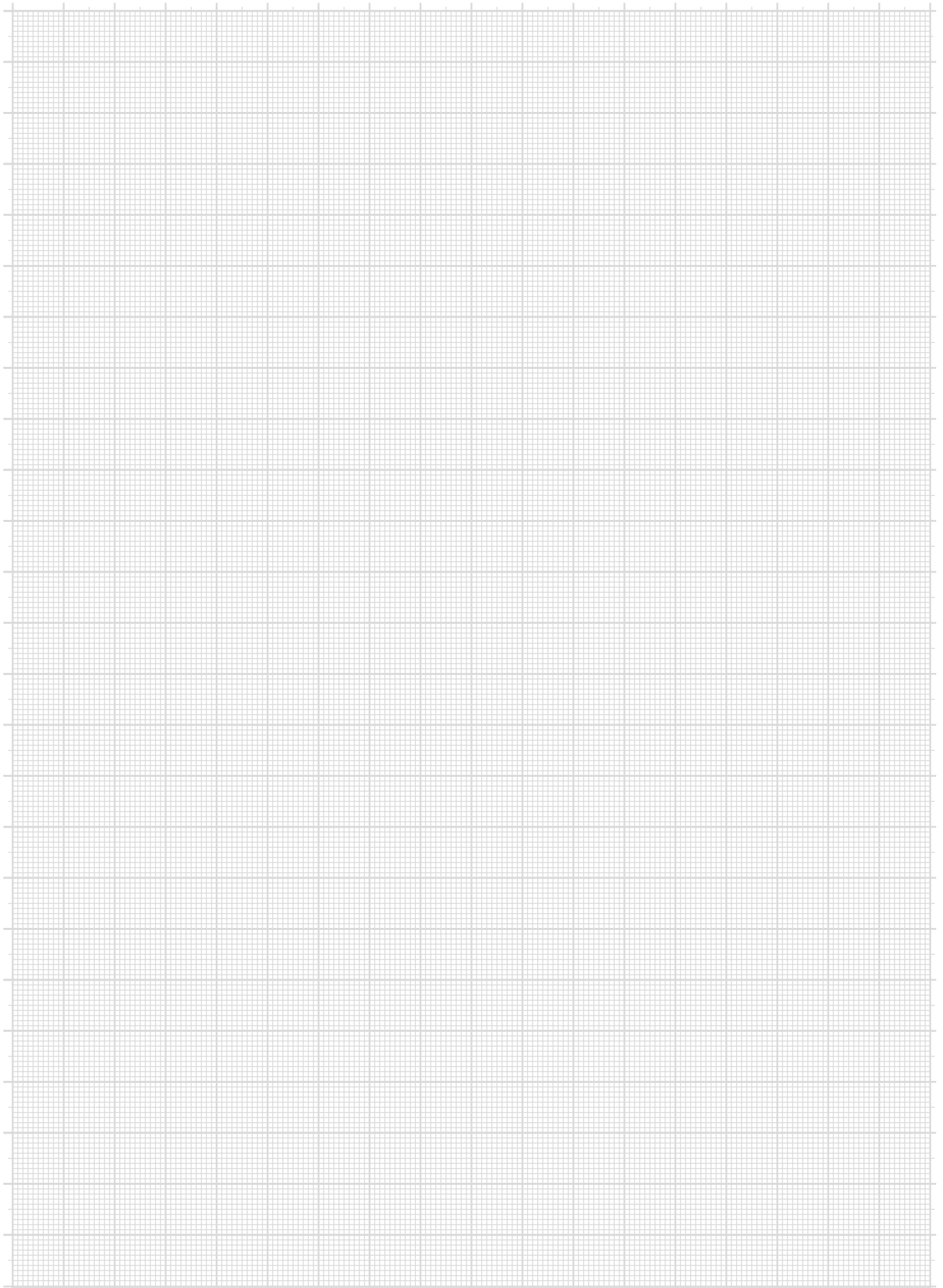
Front spacer 4-40 UNC, coded version



For other Power contacts select code from spread sheet		
Code	AWG	Current rating
61	16-20	10 A
62	12-14	20 A

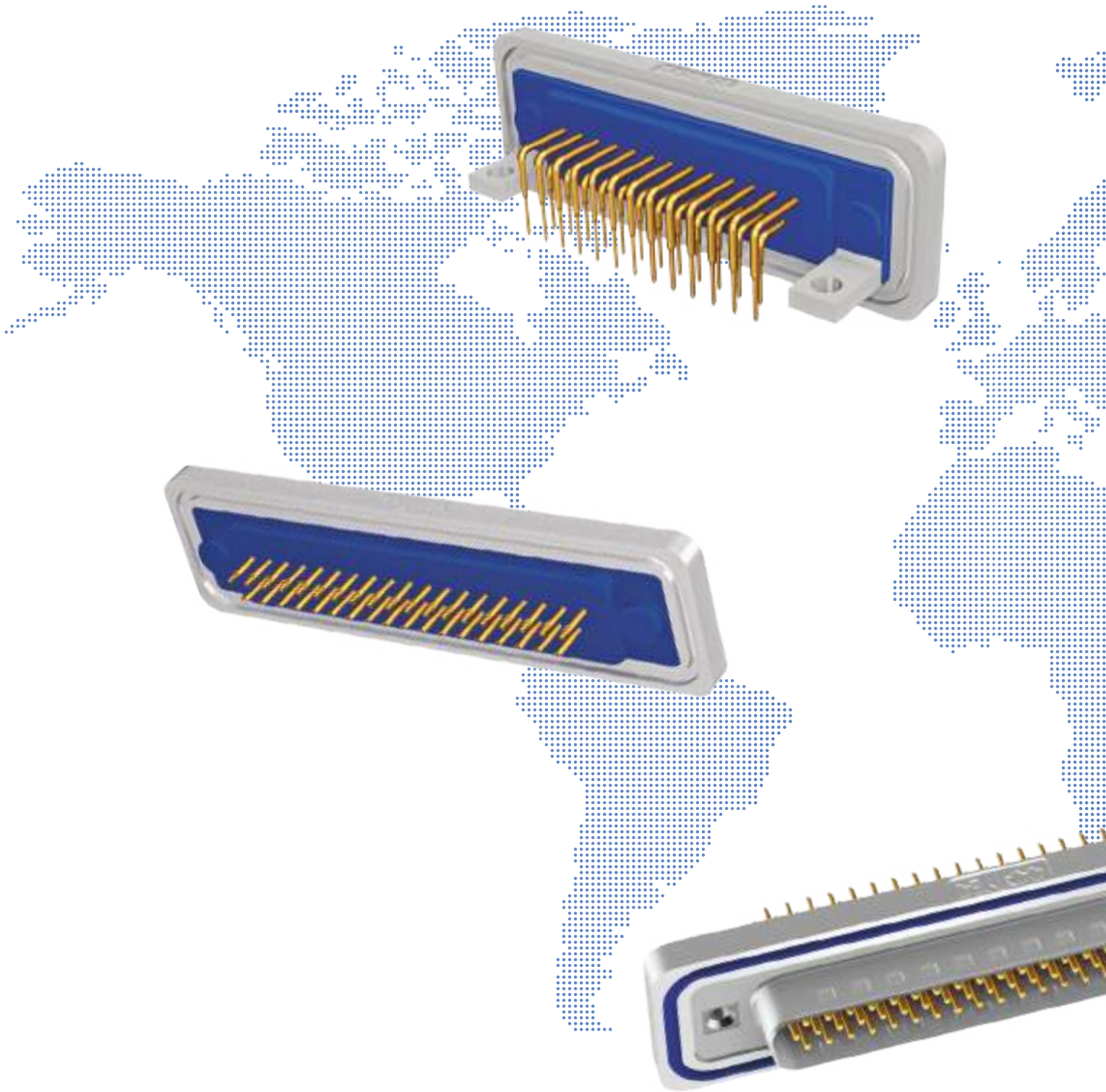
No. of poles	Current rating high power contacts [A]	Working voltage [V]	UL-File	Quality class	Part No. Socket contact	Part No. Plug contact
3W3		250	E202784	3	6003W3SXX61 B50X	6003W3PXX61 B50X
5W5	10	250			6005W5SXX61 B50X	6005W5PXX61 B50X
8W8		250			6008W8SXX61 B50X	6008W8PXX61 B50X
2W2C		250	E202784	3	602W2CSXX61 B50X	602W2CPXX61 B50X
3W3C	10	250			603W3CSXX61 B50X	603W3CPXX61 B50X

Shell: Brass tin plated
 Nickel plated die-cast frame
 Quality class 3 (A) = 50 mating cycles
 Stainless steel hex bolts are supplied loose
 On request:
 • Shell: Stainless steel
 • Quality class 1 (C) = 500 mating cycles
 • M3 thread



SECTION 8

IP67 FILTER D-SUB CONNECTORS





IP67 FILTER D-SUB CONNECTORS

Part Number Creator

6 S T F 0 9 P A M 0 4 B 3 0 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, 4.80 mm only for STF
- U = Solder pin, angled, 7.00 mm only for STF
- Z = Solder pin, angled, 11.80 mm only for STF
- Y = Solder pin, angled, 5.60 mm only for HDF

Capacitance

- 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
- B3 = 4-40 UNC threaded insert
- B5 = Threaded lock for 4-40 UNC front mounting
- E2 = 4-40 UNC threaded rear spacer with PCB clip, PCB .063" / 1.60 mm
- S2 = Metal bracket 4-40 UNC threaded insert
- S4 = Metal bracket 4-40 UNC threaded insert and PCB clip
- R2 = Metal bracket 4-40 UNC threaded insert
- R4 = Metal bracket 4-40 UNC threaded insert and PCB clip

- OX = Standard

IP67 FILTER D-SUB CONNECTORS

Product specification

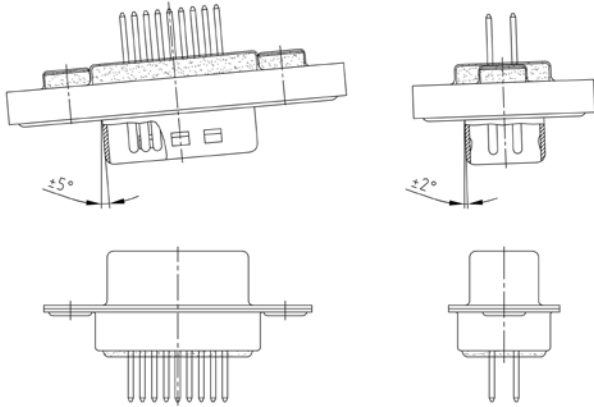
Basic material	IP67 Filter D-SUB Standard 9-, 15-, 25-, 37-, 50-pos.	IP67 Filter D-SUB High Density 15-, 26-, 44-, 62-pos.	IP67 Filter D-SUB SlimCon 9-, 15-, 25-pos.	
Contact	Copper alloy			
Contact plating	Gold over nickel			
Insulator	PBT GF UL94 V-0			
Shell	Brass tin plated		Zinc die-cast nickel plated	
Seal	O-Ring Silicone		Sealing Gasket Silicone or EMC	
Technical Data				
Dielectric with standing voltage	424 V DC	300 V DC	424 V DC	
Working voltage	100 V DC* *depending on isolation coordination refer to DIN VDE 0110 / IEC 664-1			
Voltage surge 10/700 μ s	300 V			
Current rating	7.5 A (UL) / 5 A (CSA, VDE)	3 A (UL, VDE) / 2,5 A (CSA)	5 A	
Contact resistance	max. 10 m Ω prior to stressing Δ R max. 10 m Ω after stressing per IEC 60807-2			
Insulation resistance	≥ 1 G Ω			
Capacitor Values	370 pF \pm 20 % 830 pF \pm 20 % 1300 pF \pm 20 %	370 pF \pm 20 % 830 pF \pm 20 % other capacitor values on request	370 pF \pm 20 % 820 pF \pm 20 % 1200 pF \pm 20 %	
Operating temperature	-25 °C bis/to +105 °C	-25 °C bis/to +85 °C	-40 °C bis/to +105 °C	
Humidity	40 °C / 85% Relative humidity			
Mating and unmating forces	9-pos. \leq 30 N 15-pos. \leq 50 N 25-pos. \leq 83 N 37-pos. \leq 123 N 50-pos. \leq 167 N	15-pos. \leq 50 N 26-pos. \leq 84 N 44-pos. \leq 120 N 67-pos. \leq 170 N	9-pos. \leq 30 N 15-pos. \leq 50 N 25-pos. \leq 83 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 wavesolder parameters	Preheating		Solder terminal dipping parameters	
	max. temperature	duration (max.)	max. Solder bath temperature	max. terminal immersion time
IP67 Filter D-SUB Standard	100 °C	30 s	260 °C	5 s
IP67 Filter D-SUB High Density	100 °C	30 s	260 °C	5 s
IP67 Filter D-SUB SlimCon	150 °C	180 s	265 °C	8 s

Technical specifications are subject to change without notice

IP67 FILTER D-SUB CONNECTORS

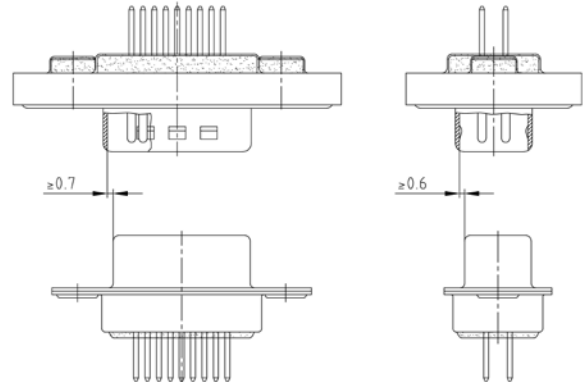
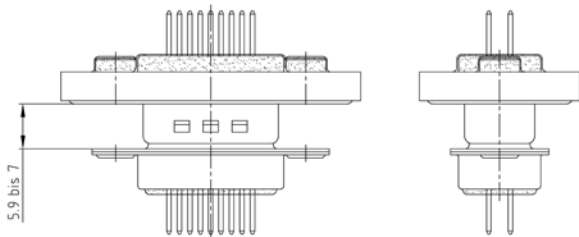
Mating conditions

Max. tilt angle for connector mating



Range for safe contact

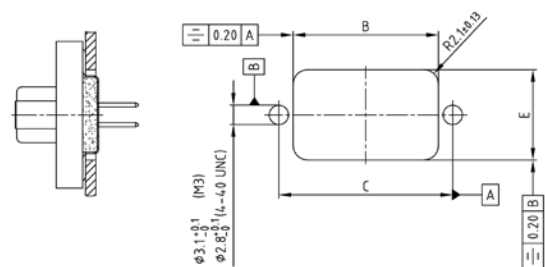
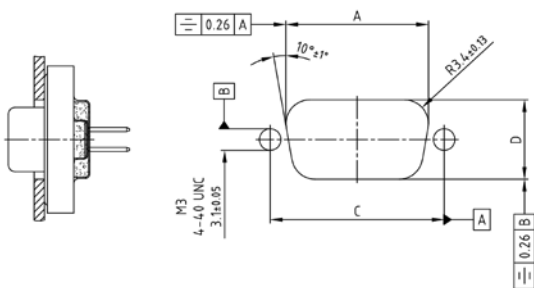
Lock-in range



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

IP67 FILTER D-SUB CONNECTORS

Panel mounting

Front panel mounting



Back panel mounting

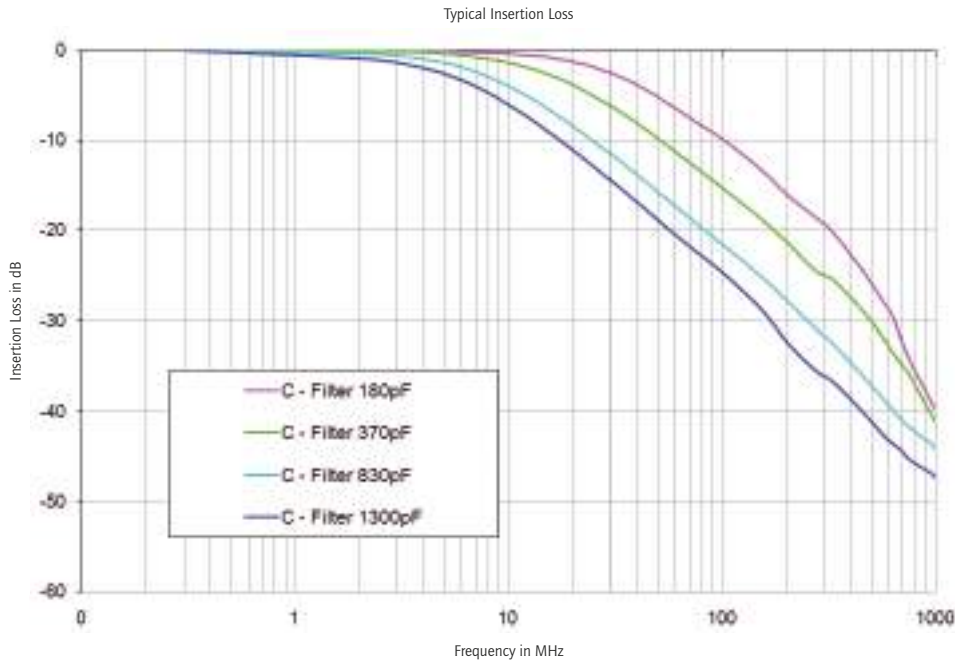


The hex bolts illustrated here (4-40 UNC or M3 threads) are included in the delivery complement of every connector with a sealing frame. The length of this spacer has been selected to accommodate a panel thickness of .063"/1.6 mm (Standard) / .051"/1.3 mm (CONEC SlimCon) such that it does not extend beyond the plug-in height. Material: stainless steel.

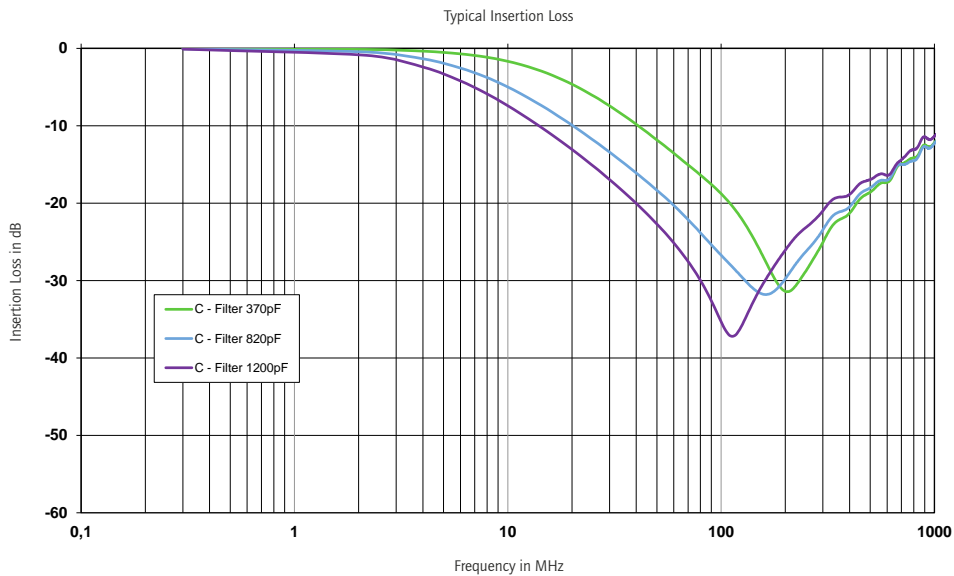
IP67 FILTER D-SUB CONNECTORS

Insertion loss

C-Filter with planar filter technology



C-Filter with chip technology (CONEC SlimCon)

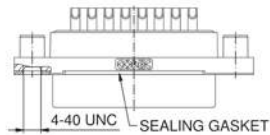


Technical specifications are subject to change without notice.

IP67 FILTER D-SUB CONNECTORS
CONEC SlimCon, C-Filter, Standard

Solder cup
 Precision machined contacts, AWG20

4-40 UNC threaded insert



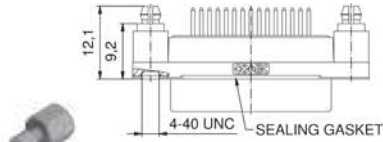
One-piece zinc die-cast nickel plated shell
 EMC Gasket or Silicone Gasket
 Quality class 3 (A) = 50 mating cycles
 Stainless steel hex bolts are supplied loose
 On request:
 • Quality class 1 (C) = 500 mating cycles
 • Gaskets also available separately

No. of poles	Current rating [A]	Working voltage [V]	Quality class	Capacitance [pF]	EMC gasket	Silicone gasket	Part No. Socket contact	Part No. Plug contact
09	75 (UL) / 5 (CSA VDE)						15-008983	15-008943
15	75 (UL) / 5 (CSA VDE)	100	3	370	✓		15-008993	15-008953
25	75 (UL) / 5 (CSA VDE)						15-009003	15-008963
09	75 (UL) / 5 (CSA VDE)						15-009063	15-009023
15	75 (UL) / 5 (CSA VDE)	100	3	820	✓		15-009073	15-009033
25	75 (UL) / 5 (CSA VDE)						15-009083	15-009043
09	75 (UL) / 5 (CSA VDE)						15-009143	15-009103
15	75 (UL) / 5 (CSA VDE)	100	3	1200	✓		15-009153	15-009113
25	75 (UL) / 5 (CSA VDE)						15-009163	15-009123
09	75 (UL) / 5 (CSA VDE)						15-009463	15-009423
15	75 (UL) / 5 (CSA VDE)	100	3	370		✓	15-009473	15-009433
25	75 (UL) / 5 (CSA VDE)						15-009483	15-009443
09	75 (UL) / 5 (CSA VDE)						15-009543	15-009503
15	75 (UL) / 5 (CSA VDE)	100	3	820		✓	15-009553	15-009513
25	75 (UL) / 5 (CSA VDE)						15-009563	15-009523
09	75 (UL) / 5 (CSA VDE)						15-009623	15-009583
15	75 (UL) / 5 (CSA VDE)	100	3	1200		✓	15-009633	15-009593
25	75 (UL) / 5 (CSA VDE)						15-009643	15-009603

IP67 FILTER D-SUB CONNECTORS
CONEC SlimCon, C-Filter, Standard

Solder pin, straight
 Precision machined contacts

Clip for PCB 1.6 mm, 4-40 UNC threaded insert



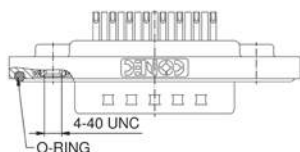
One-piece zinc die-cast nickel plated shell
 EMC Gasket or Silicone Gasket
 Quality class 3 (A) = 50 mating cycles
 Stainless steel hex bolts are supplied loose
 On request:
 • Quality class 1 (C) = 500 mating cycles
 • Gaskets also available separately

No. of poles	Current rating [A]	Working voltage [V]	Quality class	Capacitance [pF]	EMC gasket	Silicone gasket	Part No. Socket contact	Part No. Plug contact
09	75 (UL) / 5 (CSA VDE)						15-009223	15-009183
15	100	3	370	✓		15-009233	15-009193	
25	75 (UL) / 5 (CSA VDE)						15-009243	15-009203
09	75 (UL) / 5 (CSA VDE)						15-009303	15-009263
15	100	3	820	✓		15-009313	15-009273	
25	75 (UL) / 5 (CSA VDE)						15-009323	15-009283
09	75 (UL) / 5 (CSA VDE)						15-009383	15-009343
15	100	3	1200	✓		15-009393	15-009353	
25	75 (UL) / 5 (CSA VDE)						15-009403	15-009363
09	75 (UL) / 5 (CSA VDE)						15-009703	15-009663
15	100	3	370		✓	15-009713	15-009673	
25	75 (UL) / 5 (CSA VDE)						15-009723	15-009683
09	75 (UL) / 5 (CSA VDE)						15-009783	15-009743
15	100	3	820		✓	15-009793	15-009753	
25	75 (UL) / 5 (CSA VDE)						15-009803	15-009763
09	75 (UL) / 5 (CSA VDE)						15-009863	15-009823
15	100	3	1200		✓	15-009873	15-009833	
25	75 (UL) / 5 (CSA VDE)						15-009883	15-009843

IP67 FILTER D-SUB CONNECTORS
 Plug connector, C-Filter, Standard

Solder cup
 Precision machined contacts, AWG 26

4-40 UNC threaded insert



Shell: Brass tin plated
 Nickel plated die-cast frame
 Quality class 3 (A) = 50 mating cycles
 On request:
 • Quality class 1 (C) = 500 mating cycles
 • M3 thread

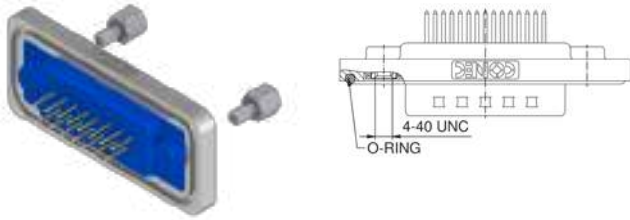
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
09	75 (UL) / 5 (CSA VDE)	100	E202784	3	370	6STF09PAM03B30X
15						6STF15PAM03B30X
25						6STF25PAM03B30X
37						6STF37PAM03B30X
50						6STF50PAM03B30X
09	75 (UL) / 5 (CSA VDE)	100	E202784	3	830	6STF09PAM04B30X
15						6STF15PAM04B30X
25						6STF25PAM04B30X
37						6STF37PAM04B30X
50						6STF50PAM04B30X
09	75 (UL) / 5 (CSA VDE)	100	E202784	3	1300	6STF09PAM05B30X
15						6STF15PAM05B30X
25						6STF25PAM05B30X
37						6STF37PAM05B30X
50						6STF50PAM05B30X

IP67 FILTER D-SUB CONNECTORS
 Plug connector, C-Filter, Standard

Solder pin, straight
 Precision machined contacts

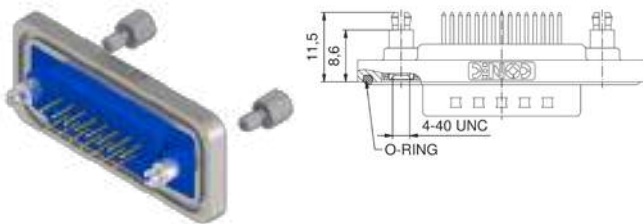
Shell: Brass tin plated
 Nickel plated die-cast frame
 Quality class 3 (A) = 50 mating cycles
 On request:
 • Quality class 1 (C) = 500 mating cycles
 • M3 thread

4-40 UNC threaded insert



No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	6STF09PAR03B30X
15						6STF15PAR03B30X
25						6STF25PAR03B30X
37						6STF37PAR03B30X
50						6STF50PAR03B30X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	6STF09PAR04B30X
15						6STF15PAR04B30X
25						6STF25PAR04B30X
37						6STF37PAR04B30X
50						6STF50PAR04B30X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	1300	6STF09PAR05B30X
15						6STF15PAR05B30X
25						6STF25PAR05B30X
37						6STF37PAR05B30X
50						6STF50PAR05B30X

4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm



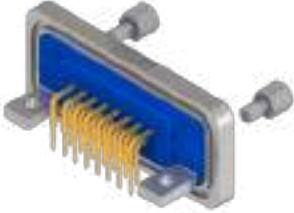
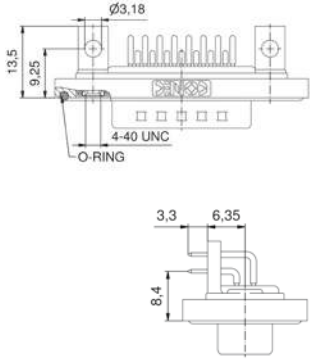
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	6STF09PAR03E20X
15						6STF15PAR03E20X
25						6STF25PAR03E20X
37						6STF37PAR03E20X
50						6STF50PAR03E20X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	6STF09PAR04E20X
15						6STF15PAR04E20X
25						6STF25PAR04E20X
37						6STF37PAR04E20X
50						6STF50PAR04E20X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	1300	6STF09PAR05E20X
15						6STF15PAR05E20X
25						6STF25PAR05E20X
37						6STF37PAR05E20X
50						6STF50PAR05E20X

IP67 FILTER D-SUB CONNECTORS
Plug connector, C-Filter, Standard


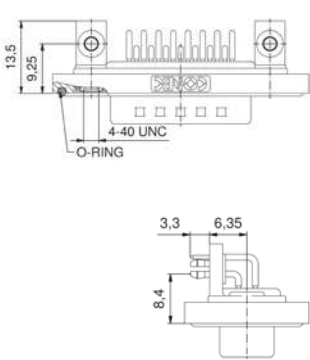
Solder pin angled, .331"/8.4 mm
 Precision machined contacts, metal bracket

Shell: Brass tin plated
 Nickel plated die-cast frame
 Quality class 3 (A) = 50 mating cycles
 On request:
 • Quality class 1 (C) = 500 mating cycles
 • M3 thread

4-40 UNC threaded insert

 		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
		09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	6STF09PAT03S20X
15	6STF15PAT03S20X							
25	6STF25PAT03S20X							
37	6STF37PAT03S20X							
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	6STF09PAT04S20X		
15						6STF15PAT04S20X		
25						6STF25PAT04S20X		
37						6STF37PAT04S20X		
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	1300	6STF09PAT05S20X		
15						6STF15PAT05S20X		
25						6STF25PAT05S20X		
37						6STF37PAT05S20X		

Clip for PCB 1.6 mm, 4-40 UNC threaded insert

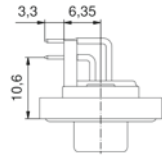
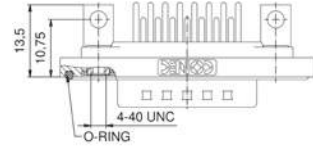
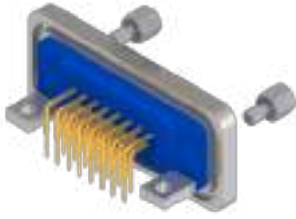
 		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
		09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	6STF09PAT03S40X
15	6STF15PAT03S40X							
25	6STF25PAT03S40X							
37	6STF37PAT03S40X							
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	6STF09PAT04S40X		
15						6STF15PAT04S40X		
25						6STF25PAT04S40X		
37						6STF37PAT04S40X		
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	1300	6STF09PAT05S40X		
15						6STF15PAT05S40X		
25						6STF25PAT05S40X		
37						6STF37PAT05S40X		

IP67 FILTER D-SUB CONNECTORS
 Plug connector, C-Filter, Standard

Solder pin angled, .417" / 10.6 mm
 Precision machined contacts, metal bracket

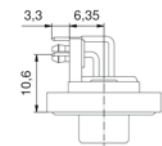
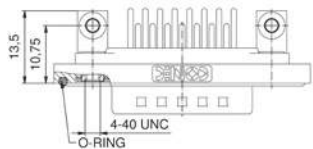
Shell: Brass tin plated
 Nickel plated die-cast frame
 Quality class 3 (A) = 50 mating cycles
 On request:
 • Quality class 1 (C) = 500 mating cycles
 • M3 thread

4-40 UNC threaded insert



No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	6STF09PAU03R20X
15						6STF15PAU03R20X
25						6STF25PAU03R20X
37						6STF37PAU03R20X
50						6STF50PAU03R20X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	6STF09PAU04R20X
15						6STF15PAU04R20X
25						6STF25PAU04R20X
37						6STF37PAU04R20X
50						6STF50PAU04R20X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	1300	6STF09PAU05R20X
15						6STF15PAU05R20X
25						6STF25PAU05R20X
37						6STF37PAU05R20X
50						6STF50PAU05R20X

Clip for PCB 1.6 mm, 4-40 UNC threaded insert



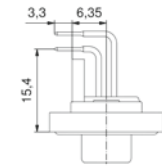
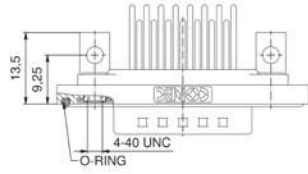
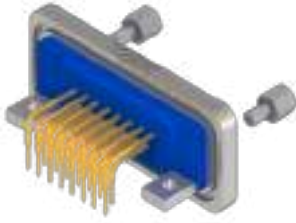
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	6STF09PAU03R40X
15						6STF15PAU03R40X
25						6STF25PAU03R40X
37						6STF37PAU03R40X
50						6STF50PAU03R40X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	6STF09PAU04R40X
15						6STF15PAU04R40X
25						6STF25PAU04R40X
37						6STF37PAU04R40X
50						6STF50PAU04R40X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	1300	6STF09PAU05R40X
15						6STF15PAU05R40X
25						6STF25PAU05R40X
37						6STF37PAU05R40X
50						6STF50PAU05R40X

IP67 FILTER D-SUB CONNECTORS
Plug connector, C-Filter, Standard

Solder pin angled, .606" / 15.4 mm
 Precision machined contacts, metal bracket

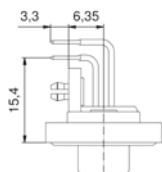
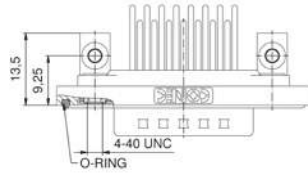
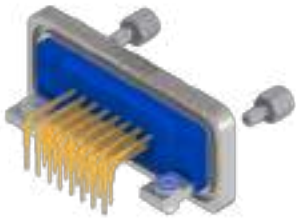
Shell: Brass tin plated
 Nickel plated die-cast frame
 Quality class 3 (A) = 50 mating cycles
 On request:
 • Quality class 1 (C) = 500 mating cycles
 • M3 thread

4-40 UNC threaded insert



No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	6STF09PAZ03S20X
15						6STF15PAZ03S20X
25						6STF25PAZ03S20X
37						6STF37PAZ03S20X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	6STF09PAZ04S20X
15						6STF15PAZ04S20X
25						6STF25PAZ04S20X
37						6STF37PAZ04S20X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	1300	6STF09PAZ05S20X
15						6STF15PAZ05S20X
25						6STF25PAZ05S20X
37						6STF37PAZ05S20X

Clip for PCB 1.6 mm, 4-40 UNC threaded insert

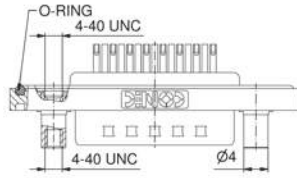


09	75 (UI) / 5 (CSA VDE)	100	E202784	3	370	6STF09PAZ03S40X
15						6STF15PAZ03S40X
25						6STF25PAZ03S40X
37						6STF37PAZ03S40X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	830	6STF09PAZ04S40X
15						6STF15PAZ04S40X
25						6STF25PAZ04S40X
37						6STF37PAZ04S40X
09	75 (UI) / 5 (CSA VDE)	100	E202784	3	1300	6STF09PAZ05S40X
15						6STF15PAZ05S40X
25						6STF25PAZ05S40X
37						6STF37PAZ05S40X

IP67 FILTER D-SUB CONNECTORS
 Plug connector, C-Filter, Standard, front panel mounting

Solder cup
 Precision machined contacts, AWG 26

4-40 UNC front spacer



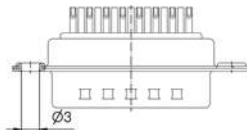
Shell: Brass tin plated
 Nickel plated die-cast frame
 Quality class 3 (A) = 50 mating cycles
 On request:
 • Quality class 1 (C) = 500 mating cycles
 • M3 thread

No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
09	75 (UL) / 5 (CSA VDE)	100	E202784	3	370	6STF09PAM03B50X
15						6STF15PAM03B50X
25						6STF25PAM03B50X
37						6STF37PAM03B50X
50						6STF50PAM03B50X
09	75 (UL) / 5 (CSA VDE)	100	E202784	3	830	6STF09PAM04B50X
15						6STF15PAM04B50X
25						6STF25PAM04B50X
37						6STF37PAM04B50X
50						6STF50PAM04B50X
09	75 (UL) / 5 (CSA VDE)	100	E202784	3	1300	6STF09PAM05B50X
15						6STF15PAM05B50X
25						6STF25PAM05B50X
37						6STF37PAM05B50X
50						6STF50PAM05B50X

IP67 FILTER D-SUB CONNECTORS
 Plug connector, C-Filter, Standard

Solder cup p,recision machined contacts
 Hood Assembly, AWG 26

Through-hole Ø 3 mm



Shell: Brass tin plated
 Quality class 3 (A) = 50 mating cycles
 On request:
 • Quality class 1 (C) = 500 mating cycles

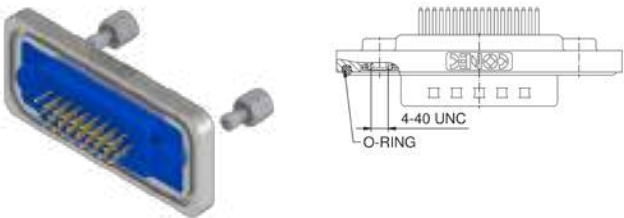
No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
09	75 (UL) / 5 (CSA VDE)	100	E202784	3	370	4STF09PAM03A10X
15						4STF15PAM03A10X
25						4STF25PAM03A10X
37						4STF37PAM03A10X
50						4STF50PAM03A10X
09	75 (UL) / 5 (CSA VDE)	100	E202784	3	830	4STF09PAM04A10X
15						4STF15PAM04A10X
25						4STF25PAM04A10X
37						4STF37PAM04A10X
50						4STF50PAM04A10X
09	75 (UL) / 5 (CSA VDE)	100	E202784	3	1300	4STF09PAM05A10X
15						4STF15PAM05A10X
25						4STF25PAM05A10X
37						4STF37PAM05A10X
50						4STF50PAM05A10X

IP67 FILTER D-SUB CONNECTORS
Plug connector C-Filter High Density

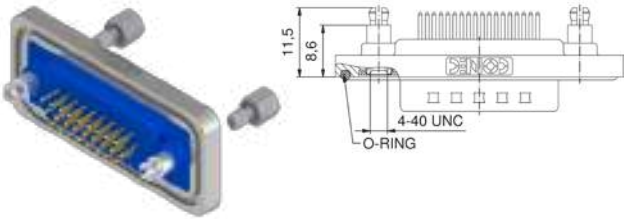
Solder pin straight
 Precision machined contact

Shell: Brass tin plated
 Nickel plated die-cast frame
 Quality class 3 (A) = 50 mating cycles
 On request:
 • Quality class 1 (C) = 500 mating cycles
 • M3 thread

4-40 UNC threaded insert

		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
		15	3 (UI) / 2.5 (CSA)	100	E202784	3	370	6HDF15PAR03B30X
26	6HDF26PAR03B30X							
44	6HDF44PAR03B30X							
62	6HDF62PAR03B30X							
15	3 (UI) / 2.5 (CSA)	100	E202784	3	830	6HDF15PAR04B30X		
26						6HDF26PAR04B30X		
44						6HDF44PAR04B30X		
62						6HDF62PAR04B30X		

4-40 UNC front, threaded rear spacer clip for PCB 1.6 mm

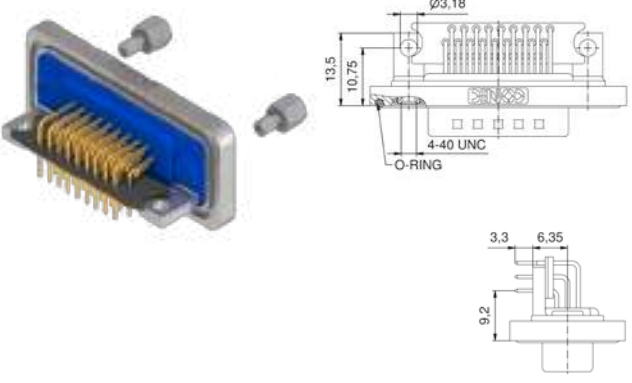
		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
		15	3 (UI) / 2.5 (CSA)	100	E202784	3	370	6HDF15PAR03E20X
26	6HDF26PAR03E20X							
44	6HDF44PAR03E20X							
62	6HDF62PAR03E20X							
15	3 (UI) / 2.5 (CSA)	100	E202784	3	830	6HDF15PAR04E20X		
26						6HDF26PAR04E20X		
44						6HDF44PAR04E20X		
62						6HDF62PAR04E20X		

IP67 FILTER D-SUB CONNECTORS
Plug connector C-Filter High Density

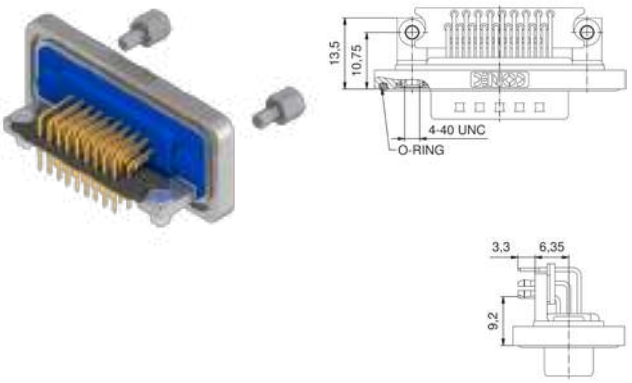
Solder pin angled .362"/9.2 mm
 Precision machined contacts, metal bracket

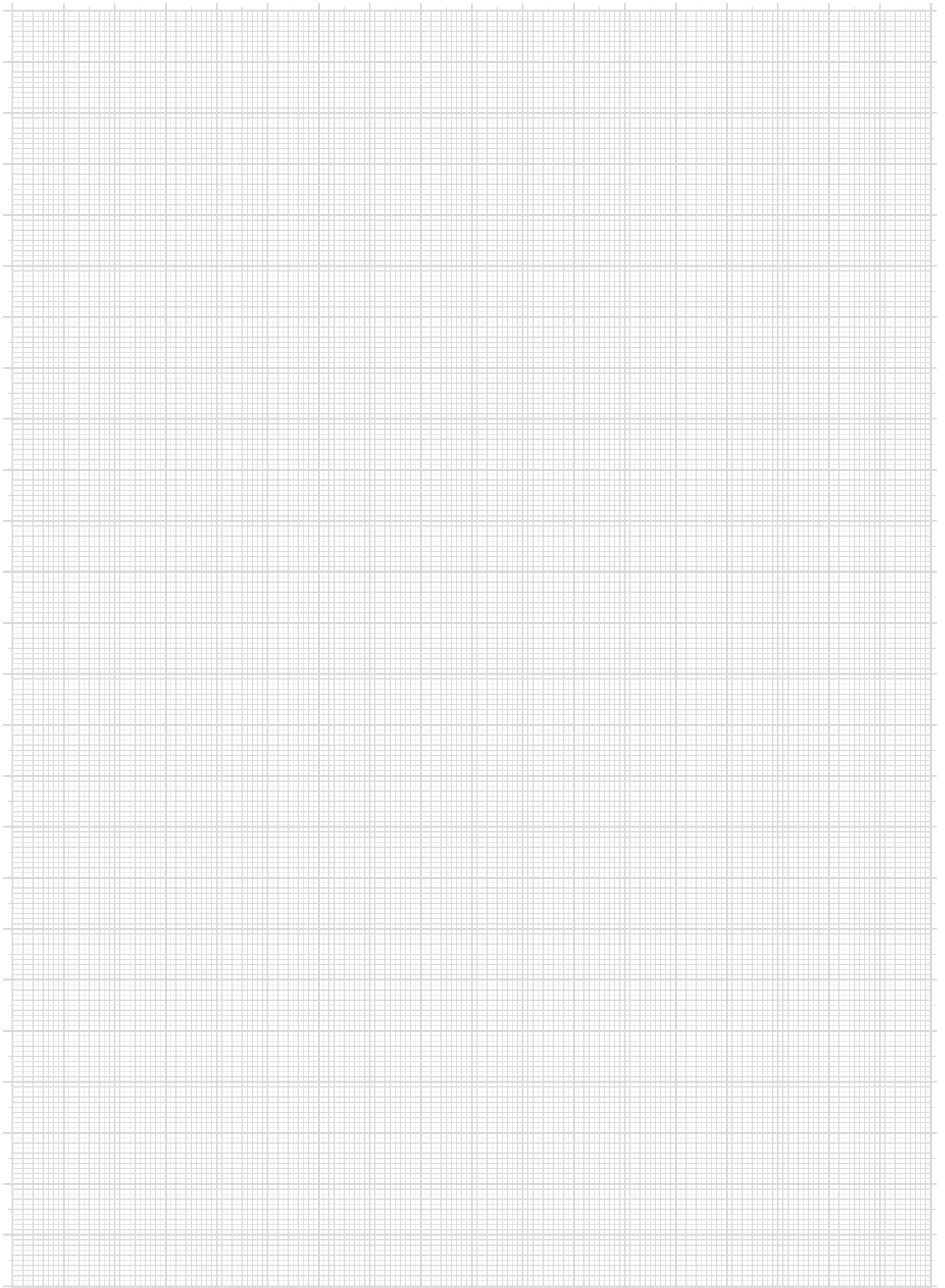
Shell: Brass tin plated
 Nickel plated die-cast frame
 Quality class 3 (A) = 50 mating cycles
 On request:
 • Quality class 1 (C) = 500 mating cycles
 • M3 thread

4-40 UNC threaded insert

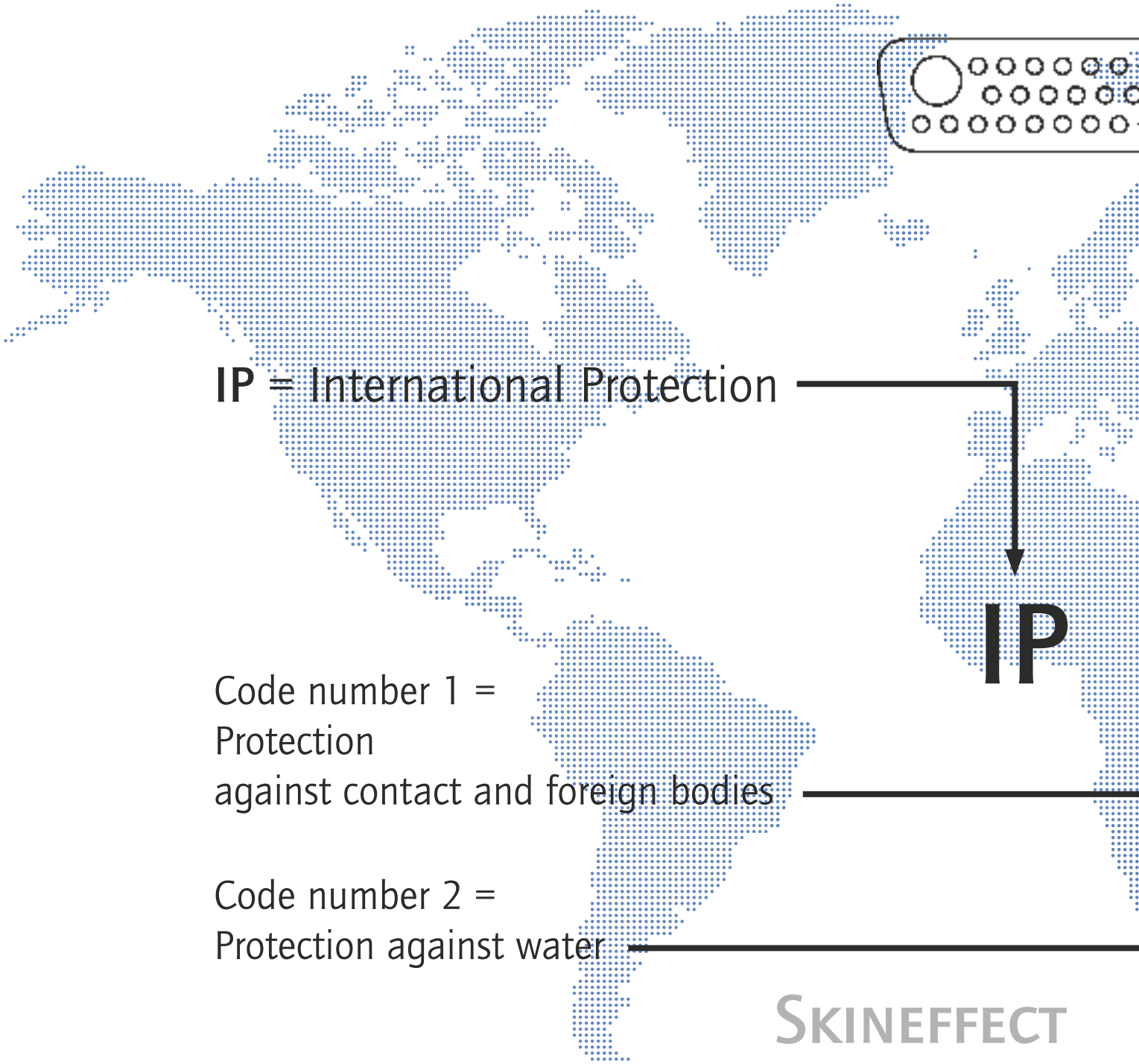
		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
15	3 (UI) / 2.5 (CSA)	100	E202784	3	370	6HDF15PAY03R20X		
26						6HDF26PAY03R20X		
44						6HDF44PAY03R20X		
62						6HDF62PAY03R20X		
15	3 (UI) / 2.5 (CSA)	100	E202784	3	830	6HDF15PAY04R20X		
26						6HDF26PAY04R20X		
44						6HDF44PAY04R20X		
62						6HDF62PAY04R20X		

Clip for PCB 1.6 mm, 4-40 UNC threaded insert

		No. of poles	Current rating [A]	Working voltage [V]	UL-File	Quality class	Capacitance [pF]	Part No.
15	3 (UI) / 2.5 (CSA)	100	E202784	3	370	6HDF15PAY03R40X		
26						6HDF26PAY03R40X		
44						6HDF44PAY03R40X		
62						6HDF62PAY03R40X		
15	3 (UI) / 2.5 (CSA)	100	E202784	3	830	6HDF15PAY04R40X		
26						6HDF26PAY04R40X		
44						6HDF44PAY04R40X		
62						6HDF62PAY04R40X		



TECHNICAL INFORMATION



IP = International Protection

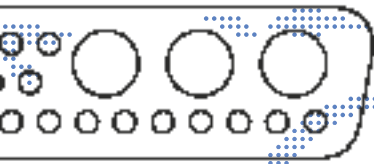
IP

Code number 1 =
Protection
against contact and foreign bodies

Code number 2 =
Protection against water

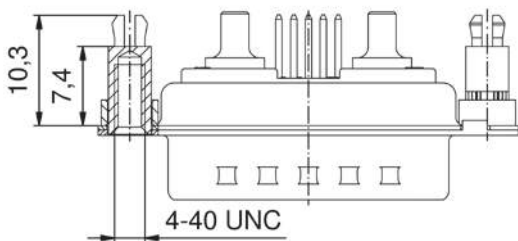
SKINEFFECT





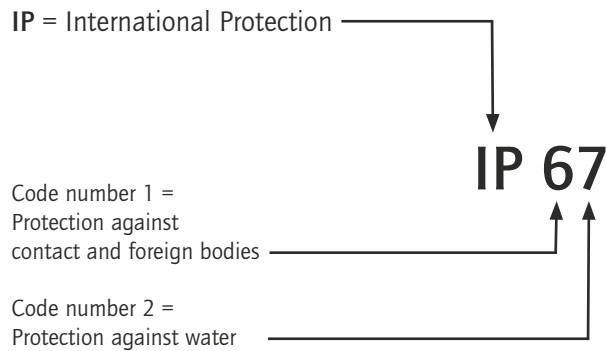
67

SOLDER PARAMETER



Protection classes

Norm IEC 60529



For safety reasons, connectors have to be protected against external influences like dust, foreign objects, direct contact, moisture and water. For industrial connectors, this protection is provided by their housings with their latching devices and sealed cable entries. The protection classes are also called IP Codes. The abbreviation IP stands for "ingress protection". Standard IEC 60529 specifies and divides the degree of protection into several classes.

The protection classes refer to protection against contact and ingress of solid foreign objects and dust (indicated by the first code digit of the IP Code) as well as against damaging ingress of water (indicated by the second code digit of the IP Code)

PROTECTION CLASS OVERVIEW

First code digit	Protection against ingress of foreign objects Protection against contact	Second code digit	Protection against water	Examples
0	Not protected	0	Not protected	
1	Protection against ingress of solid foreign objects with diameters > than 50 mm Protected against access with the back of the hand	1	Protection against vertically dripping water	
2	Protection against ingress of solid foreign objects with diameters > than 12.5 mm Protected against access with a finger	2	Protection against dripping water with 15° inclination	
3	Protection against ingress of solid foreign objects with diameters > than 2.5 mm Protected against access with a tool	3	Protection against spray water inclined up to 60°	
4	Protection against ingress of solid foreign objects with diameters > than 1 mm Protected against access with a wire	4	Protection against splashing water	
5	Protected against dust in harmful quantities Complete protection against contact	5	Protection against jet water	
6	Dust-proof Complete protection against contact	6	Protection against powerful jets of water	
		7	Protection against temporary immersion (max. water depth 1 m)	
		8	Protection against constant immersion beyond 1 m An additionally indicated number stands for the maximum immersion depth in meters.	
		9K	Protection against very strong jets of water, e.g. from high-pressure steam jet cleaners for vehicles.	

TECHNICAL INFORMATIONS

Electrotechnical information for coaxial and high voltage contacts

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

$\sigma_{Ag} = 62 \times 10^6 \text{ S/m}$

$\sigma_{Cu} = 58 \times 10^6 \text{ S/m}$

$\mu_0 = 1,256 \cdot 10^{-6} \text{ Vs / Am}$

μ_r ... relative permeability constant for the employed material

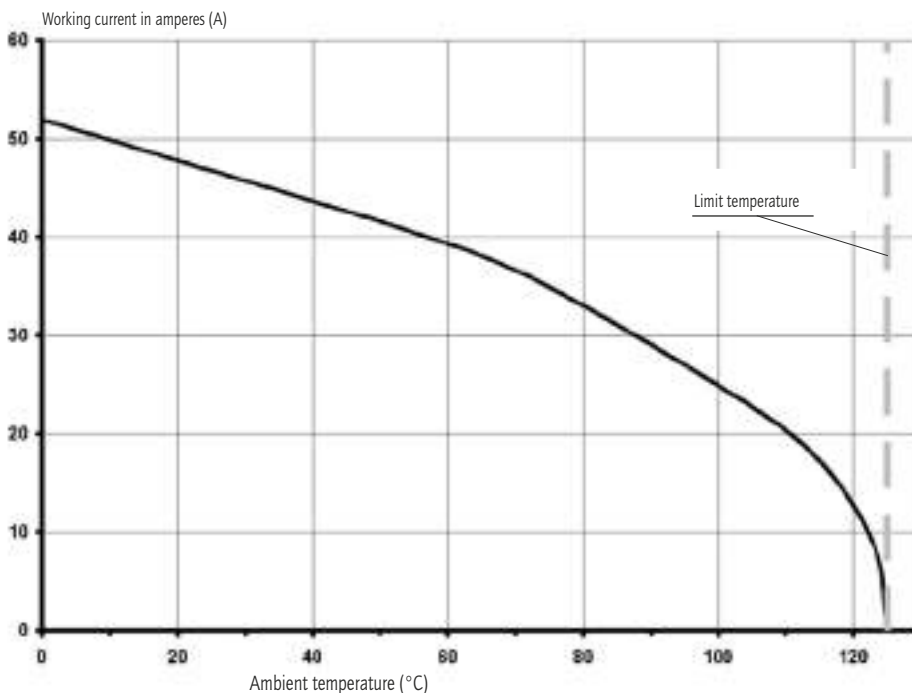
VSWR-Value

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 \rightarrow reflection coefficient r on s transmission line according to the equation

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

DeRating Curve

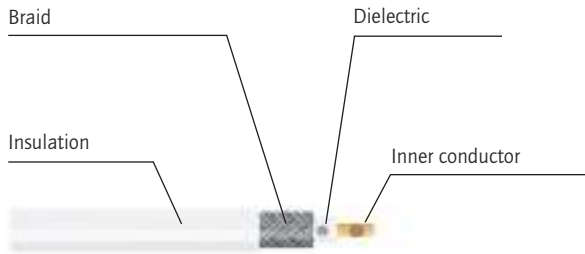


All connectors in the Water Resistant Combination D-Subminiature series are fully loaded with contacts. They are equipped with either signal, high voltage, high power or coaxial contacts according to requirements. Our production standard requires that all connectors are fully loaded.

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

TECHNICAL INFORMATIONS

Typical Assembly for coaxial crimp contacts (Detailed information upon request)



Strip the wire
Using dimensions shown
on the individual product
drawings



Slide sleeve over coax cable



Crimp the inner contact on
the inner conductor



Snap the inner contact
into the outer contact



Slide braid over outer
contact



Crimp the sleeve on to
outer contact

TECHNICAL INFORMATION

Solder profile

Recommended wave - solder parameters for CONEC connectors

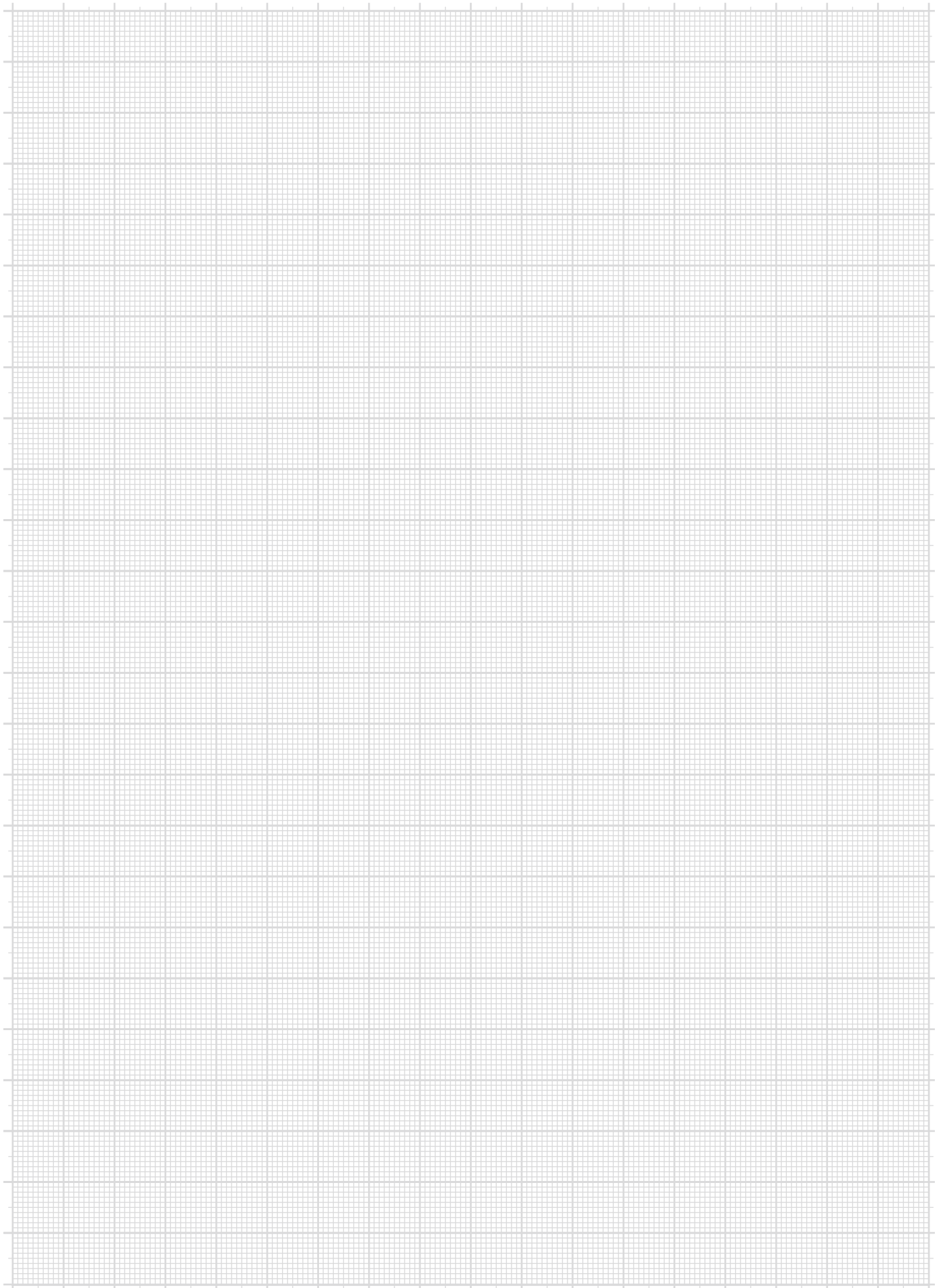
Connector Type	Preheating		Solder termination dipping parameters	
	max. temperature	max. duration	max. solder bath temperature	max. terminal immersion time
D-SUB Standard	100 °C	120 s	260 °C	5 s
D-SUB High Density	100 °C	120 s	260 °C	5 s
Combination D-SUB	100 °C	120 s	260 °C	5 s
Filter D-SUB	100 °C	30 s	260 °C	5 s
Filter Combination D-SUB	120 °C	120 s	260 °C	5 s
IP67 D-SUB (Standard + HD)	120 °C	120 s	240 °C	5 s
IP67 D-SUB Solid Body (Standard + HD)	150 °C	180 s	265 °C	8 s
IP67 D-SUB CONEC SlimCon (Standard + HD)	150 °C	180 s	265 °C	8 s
IP67 Filter D-SUB (Standard + HD)	100 °C	30 s	260 °C	5 s
IP67 Filter D-SUB CONEC SlimCon	150 °C	180 s	265 °C	8 s
IP67 D-SUB Combination	120 °C	120 s	240 °C	5 s
IP67 D-SUB Combination Solid Body	150 °C	180 s	265 °C	8 s
IP67 D-SUB Combination CONEC SlimCon	150 °C	180 s	265 °C	8 s

Technical specifications are subject to change without notice

TECHNICAL INFORMATION

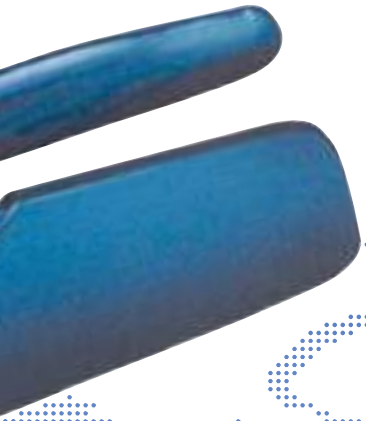
Conversion table for units $\mu\text{m}/\text{mm}/\text{inch}$

μm <small>1/1000 mm</small>	μinch <small>1/1000 inch</small>	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	.988	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






INSTALLATION AND ASSEMBLY TOOLS







INSTALLATION AND ASSEMBLY TOOLS

Installing/Removal tools

for D-SUB connectors with crimp contacts	Description	Part. No.
	<p>Insertion and extraction tool</p>	<p>360X12009X</p>
for D-SUB High Density connectors with crimp contacts		
	<p>Insertion tool</p>	<p>360X10339X</p>
	<p>removal tool</p>	<p>360X10349X</p>
for D-SUB Combination Connectors with coaxial, high power and high voltage contacts		
	<p>Extraction tool</p>	<p>360X10219X</p>

INSTALLATION AND ASSEMBLY TOOLS

Crimp tools

for D-SUB standard connectors with stamped contacts	Description	Part. No.
	Crimp tool	360X10079X
	Spool crimp tool for stamped contacts on reel	360X10069X



INSTALLATION AND ASSEMBLY TOOLS

Crimp tools and inserts

for D-SUB, HD-SUB connectors with crimp contacts and D-SUB combination connectors with coaxial contacts (inner conductor)

Description

Part. No.

	<p>Hand crimp tool</p>	<p>360X10329X</p>
	<p>Inserts (Part No. see following charts)</p>	

Inserts for use with hand crimp tool 360X10329X D-SUB Standard and High Density contacts



Part No. plug contacts	Part No. socket contacts	Part No. Crimp insert	AWG (Selector Setting)	AWG (Selector Setting)	AWG (Selector Setting)	AWG (Selector Setting)
161A18299X	162A18709X	360X20069X	20 (7)	22 (6)	24 (5)	
161A18309X	162A18719X	360X20069X	24 (7)	26 (6)	28 (5)	
161A18009X	162A18419X	360X10629X	22 (4)	24 (3)	26 (2)	28 (1)
	16-000693 (closed entry)	360X10629X	22 (4)	24 (3)	26 (2)	28 (1)
131C15019X	132C15019X	360X20039X	20 (7)	22 (6)	24 (5)	
131C15029X	132C15029X	360X20039X	24 (7)	26 (6)	28 (5)	

Inserts for use with hand crimp tool 360X0329X D-SUB Combination coaxial contacts (inner conductor)

Part No. plug contacts	Part No. socket contacts	Part No. Crimp insert	Selector setting			
131J21019X	132J21019X	360X11049X	depending on wire use selector setting			
131J21029X	132J21029X	360X11049X				
131J21039X	132J21039X	360X11049X	AWG			Selector setting
131J23019X	132J23019X	360X11059X	24	→		5
131J31019X	132J31019X	360X11049X	26	→		5
131J31029X	132J31029X	360X11049X	28	→		4
131J33019X	132J33019X	360X11059X	30	→		3

INSTALLATION AND ASSEMBLY TOOLS

Crimp tools and inserts

for D-SUB standard connectors with stamped contacts	Description	Part. No.
	Hand crimp tool	360X10409X
	Insert for above hand crimp tool	360X20029X

Selector setting for High Power contacts


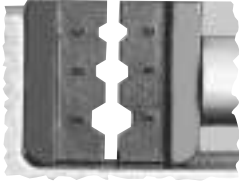
Contact Type	Part. no. plug contacts	Part. no. socket contacts	Crimp insert	AWG (Selector Setting)	AWG (Selector Setting)	AWG (Selector Setting)
D-Sub Combination High power contacts	131C11019X	132C11019X	360X20029X	16 (3)	18 (2)	20 (2)
	131C11029X	132C11029X	360X20029X	12 (5)	14 (4)	
	131C11039X	132C11039X	360X20029X	10 (7)	12 (6)	
	131C11049X	132C11049X	360X20029X	8 (7)	10 (6)	

for D-SUB Combination connectors with angled high power contacts

	Hand crimp tool	360X12269X
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INSTALLATION AND ASSEMBLY TOOLS

Crimp tools and inserts



for D-SUB combination connectors with coax contacts (outer conductor)	Description	Part. No.
	Hand crimp tool	360X10519X
	Inserts (Part No. see following chart)	

Inserts for use with hand crimp tool 360 X0329 X/D-SUB Combination coac contacts (outer conductor)

Part No. plug contacts	Part No. socket contacts	Part No. Crimp insert	Inser cavity
131J20019X	132J20019X	360X11019X	C
131J20029X	132J20029X	360X11019X	B
131J20039X	132J20039X	360X11019X	A
131J20049X	132J20049X	360X11029X	A
131J20059X	132J20059X	360X11039X	B
131J21019X	132J21019X	360X11019X	B
131J21029X	132J21029X	360X11039X	B
131J21039X	132J21039X	360X11029X	A
131J22019X	132J22019X	360X11019X	B
131J22029X	132J22029X	360X11019X	C
131J22039X	132J22039X	360X11039X	B
131J23019X	132J23019X	360X11019X	B
131J30019X	132J30019X	360X11019X	B
131J30029X	132J30029X	360X11019X	B
131J31019X	132J31019X	360X11019X	B
131J31029X	132J31029X	360X11019X	A
131J33019X	132J33019X	360X11019X	B

INSTALLATION AND ASSEMBLY TOOLS

Manually operated lever press + press in tool sets

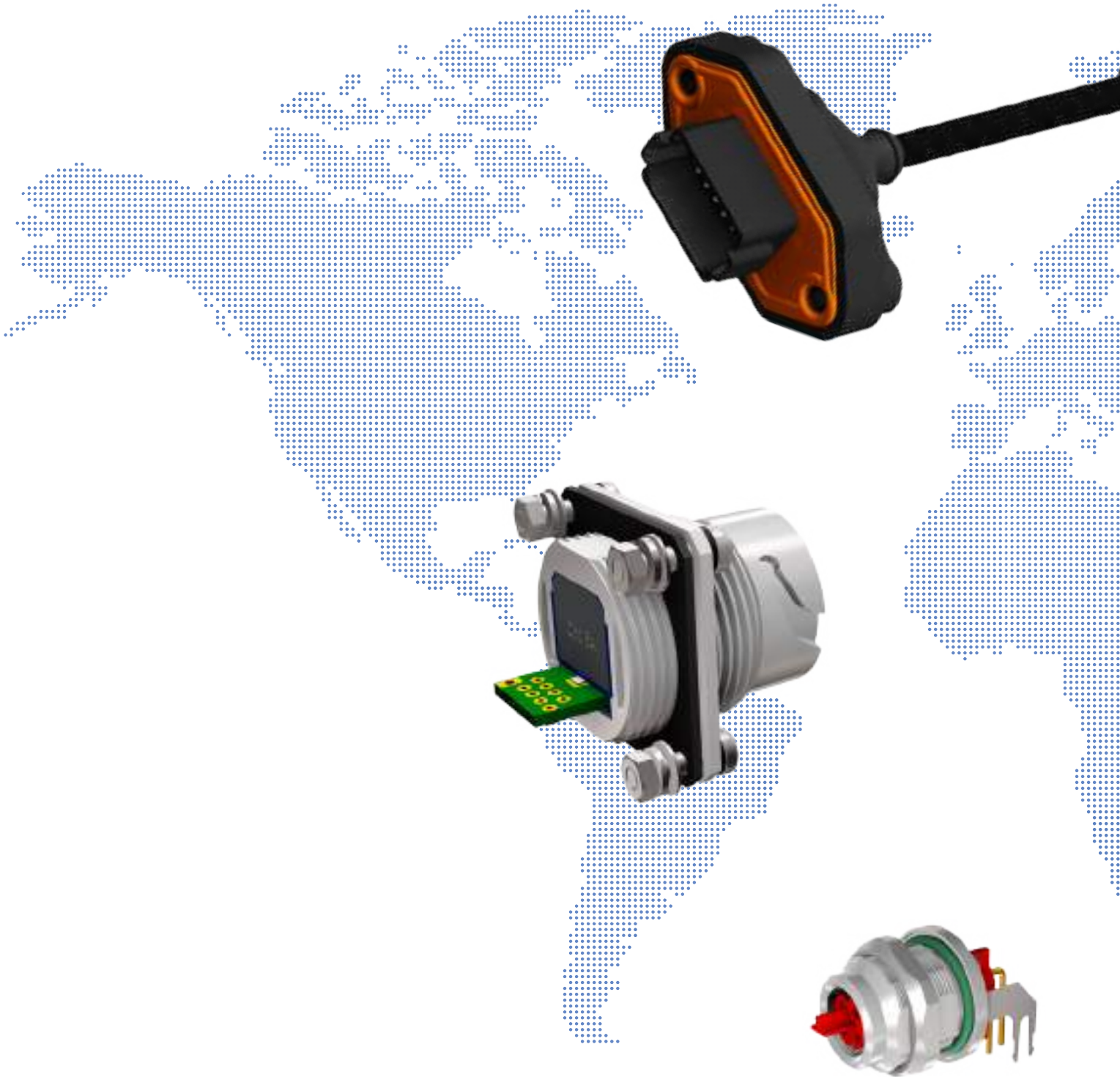
for D-SUB combination connectors with coax contacts (outer conductor)	Description	Part. No.
	Manually operated lever press	360X12369X
	Press in tool sets (Part No. see following chart)	

Press in tool sets for D-SUB, HD-SUB and D-SUB Combination Connectors

Socket Connector	Type	Part. No.
Combination D-SUB Connectors	2W2C	360X00159A
Combination D-SUB Connectors	3W3	360X00169A
Combination D-SUB Connectors	3W3C	360X00169A
Combination D-SUB Connectors	5W5	360X00179A
Combination D-SUB Connectors	8W8	360X00189A
Plug Connector	9-pos./15-pos. HD	360X15019X
Plug Connector	15-pos./26-pos. HD	360X15029X
Plug Connector	25-pos./44-pos. HD	360X15039X
Plug Connector	37-pos./62-pos. HD	360X15049X
Plug Connector	50-pos./78-pos. HD	360X15059X
Socket Connector	9-pos./15-pos. HD	360X15069X
Socket Connector	15-pos./26-pos. HD	360X15079X
Socket Connector	25-pos./44-pos. HD	360X15089X
Socket Connector	37-pos./62-pos. HD	360X15099X
Socket Connector	50-pos./78-pos. HD	360X15109X

SECTION 11

ADDITIONAL PRODUCT CATEGORIES





ADDITIONAL CONEC PRODUCT CATEGORIES

IP67 Power Bayonet



Details

- No. of poles: 2, 2+PE
- Receptacle male and female
- Cable connector male and female
- Degree of protection: IP67

Benefits

- Use in harsh environments
- Secure and easy locking by bayonet lock
- Cable to cable connection available
- High current carrying capability

IP67 Mini USB, USB 2.0, USB 3.0 connectors



Details

- Type: USB 3.0 Type A
- Type: USB 2.0 Type A, Mini USB Type A
- Housing: plastic, plastic metallized, zinc die-cast
- Locking: bayonet, M28
- Termination: soldering, PCB
- Front- and back panel mounting
- Adapters
- Degree of protection: IP67
- Degree of protection: IP20 (patch cord)

Benefits

- Use in harsh environments
- Secure and easy locking by bayonet lock
- Light-weight versions ideal for portable devices

ADDITIONAL CONEC PRODUCT CATEGORIES

IP67 RJ45 Industrial Ethernet connectors



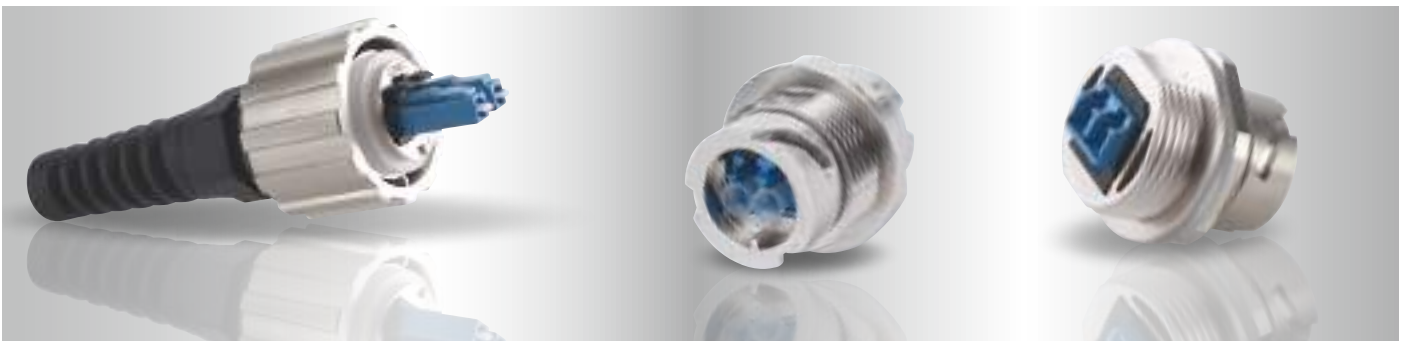
Details

- Housing: plastic, plastic metallized, zinc die-cast
- Locking: bayonet, M28
- Termination: soldering, IDC, screw
- Front- and back panel mounting
- UTP Cat 5e, STP Cat 5e, S/STP Cat 6A
- Degree of protection: IP67
- Degree of protection: IP20 (patch cord)

Benefits

- Use in harsh environments
- Easy and secure locking by bayonet lock
- Front- and back panel mounting
- Light-weight versions
- Colored interface encoding available
- Cat. 6 A variants up to 10 GBit /s

IP67 Fiber Optic LC Duplex



Details

- Housing: plastic, plastic metallized, zinc die-cast
- Locking: bayonet
- Single Mode, Multi Mode, APC Single Mode
- Front- and back panel mounting
- Degree of protection: IP67

Benefits

- Use in harsh environments
- Secure and easy locking by bayonet lock
- Extended temperature range
- Interference-free safe data transmission
- Cost efficiency by integrated IP67 protection

ADDITIONAL CONEC PRODUCT CATEGORIES

CONEC Hybrid connectors



Details

- Size: B12, B17, B23, B40
- Coding: 1, 2, 3, 4, 5, 6
- Number of poles power: 2, 2+PE, 3+PE, 4+PE, 3+PE+2
- Number of poles data: 4 (transmission according IEC11801 Cat 5)
- Configuration: Connector axial overmoulded, Connector axial field attachable, sockets axial, sockets angled rotatable (B23)
- Bayonet locking
- Degree of protection: IP67

Benefits

- Space-saving by transmitting data and power with one connector
- Quick and secure connection by bayonet locking
- Compact and robust design
- Adjustable direction of outlet (B23 receptacle angled)

Circular connectors overmoulded (signal transmission)



Details

- Size: M8x1, M12x1, 7/8", Rund24
- Coding: A, B, C
- Number of poles: 3, 4, 5, 6, 8, 12, 2+PE, 3+PE, 4+PE
- Configuration: axial or angled, shielded or unshielded
- Optional with LED
- Termination: screw-, snap-, screw-/snap-termination
- Degree of protection: IP67

Benefits

- Robust design with minimum space requirements
- Mating can be controlled with torque wrench
- Vibration proof screw lock
- Application-related cable qualities

ADDITIONAL CONEC PRODUCT CATEGORIES

Circular connectors field attachable (signal transmission)



Details

- Size: M8x1, M12x1, 7/8", Rund24
- Coding: A
- Number of poles: 3, 4, 5, 8, 2+PE, 3+PE, 4+PE, 6+PE
- Configuration: axial or angled, shielded or unshielded
- Termination: solder-, clamp-, screw-, crimp termination
- Degree of protection: IP67

Benefits

- Mating can be controlled with torque wrench
- Easy field attachable without special tools
- M12x1 cable cross section 1.5 mm² (Crimp max. 1.0 mm²)
- Vibration proof screw lock

Sockets (signal transmission)



Details

- Size: M8x1, M12x1, 7/8"
- Coding: A, B
- Number of poles: 3, 4, 5, 6, 8, 12, 2+PE, 4+PE
- Male socket, female socket
- Configuration: axial or angled
- Field attachable crimp version
- Assembly: Protection cap
- Front and back panel mounting
- Degree of protection: IP67

Benefits

- Colored contact insulators to avoid wrong plugging
- High number of poles with minimum space requirements
- Direct circuit board mounting
- Protection of unused interfaces

ADDITIONAL CONEC PRODUCT CATEGORIES

Sockets SMT/THR (signal transmission)



Details

- Size: M8x1 SMT/THR, M12x1 SMT
- Coding: A, B
- Number of poles: 3, 4, 5, 8
- Male socket, female socket
- Configuration: axial, shielded or unshielded
- Front and back panel mounting
- Degree of protection: IP67

Benefits

- Automated assembly (SMT)
- High number of poles with minimum space requirements
- Low forces on the board
- Low contact resistance on the shielding
- Large tolerance compensation between board and housing

Panel plugs



Details

- Size: M8x1, M12x1
- Coding: A
- Number of poles: 3, 4, 5, 8
- With LED preparation
- Configuration: axial
- Housing configuration: Plastic, metal, metal/plastic transparent
- Termination: Solder-, print termination
- Degree of protection: IP67

Benefits

- Easy installation in housing by pushing in
- Low installation height
- Various connection possibilities

ADDITIONAL CONEC PRODUCT CATEGORIES

Power connectors



Details

- Size: M12x1, 7/8", Rund24
- Coding: L, S, T
- Number of poles: 3, 4, 2+PE, 3+PE, 4+PE, 4+FE, 6+PE
- Configuration: axial or angled
- Degree of protection: IP67

Benefits

- Transmission of high currents
- Mating can be controlled with torque wrench
- Defined tightening torque
- Polarity reversal prevented with coded insulators
- Robust design with minimum space requirements

High Temperature/Food & Beverage connectors



Details

- Size: M8x1, M12x1
- Coding: A
- Number of poles: 3, 4, 5
- Female connector, male connector
- Optional with LED
- Temperature-resistant up to 125 °C (HT)
- Degree of protection: IP65 (HT), IP67/IP69K (F&B)

Benefits

- Resistance to commercial aggressive cleaning agents
- Robust design with minimum space requirements
- Mating can be controlled with torque wrench
- Vibration proof screw lock
- Use in constantly high ambient temperatures

ADDITIONAL CONEC PRODUCT CATEGORIES

Connectors for BUS-Systems



Details

- Size: M8x1, M12x1, 7/8", RJ45
- Coding: B, D, P, X
- Number of poles: 4, 8
- Profibus DP
- DeviceNet
- Industrial Ethernet 100 MHz
- EtherCAT P
- 10 Gigabit Ethernet
- Configuration: axial or angled

Benefits

- Robust design with minimum space requirements
- Vibration proof screw lock
- SMT versions for automatic placement
- High data transmission up to 10 Gbit/s (X-cod.)
- Flexible cabling in the field by field attachable variants

Junction systems



Details

- Size: M8x1, M12x1
- Number of poles: 3, 4, 5, 8, 4+PE
- 1:1 wiring
- Signal distribution
- Assembly: retaining clip, protection caps
- Degree of protection: IP67

Benefits

- Reduction of installation costs
- Space saving design
- Robust design with minimum space requirements
- Signals and power are transmitted by standardized plug systems
- Back-to-back assembly with retaining clip

ADDITIONAL CONEC PRODUCT CATEGORIES

DT, Superseal and ISOBUS series



Details

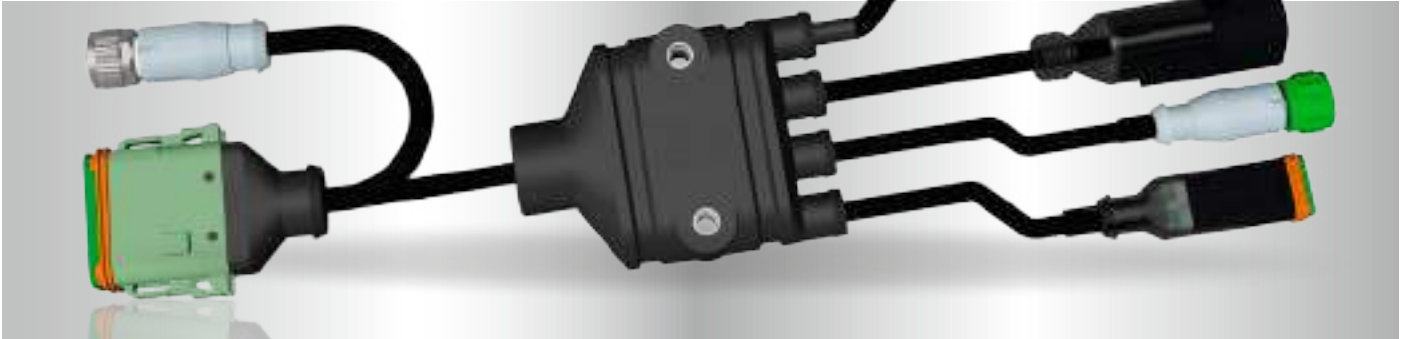
- No. of poles: 2-, 3-, 4-, 6-, 8-, 12-pos. (DT-Series)
2-, 3-, 4-, 5-, 6-pos. (Superseal), 9-pos. (ISOBUS)
- PUR Cable 0.75 mm²/AWG 18
- Optional with M12-thread (DT-Series)
- Optional with LED and protection circuit (DT-Series: 2- und 3-pos.)
- Available with single wire (2-pos. DT-Series and Superseal)
- Protection cap (DT- and Superseal-Series)
- Available with double outlet (DT 2-, 4-, 6-, 8-pos.)
- Gender: Female, male

Benefits

- Compact design
- With/without LED and protection circuit
- Status indication via LED, visible from all sides (DT-Series)
- Attachment/mounting of cable protection hose (DT-/Superseal-Series)
- The overmoulding provides an overall IP67 protection from the housing into the cable

ADDITIONAL CONEC PRODUCT CATEGORIES

Junction system Type S, M, L



Details

Type S

- 66 x 30 x 15 mm
- Cable inlets: 1, 2
- Cable outlets: 1, 2
- Max. Cable diameter inlets: 8 mm
- Max. Cable diameter outlets: 8 mm

Type M

- 66 x 40 x 15 mm
- Cable inlets: 1, 2, 3
- Cable outlets: 1, 2, 3
- Max. Cable diameter inlets: 11 mm
- Max. Cable diameter outlets: 8 mm

Type L

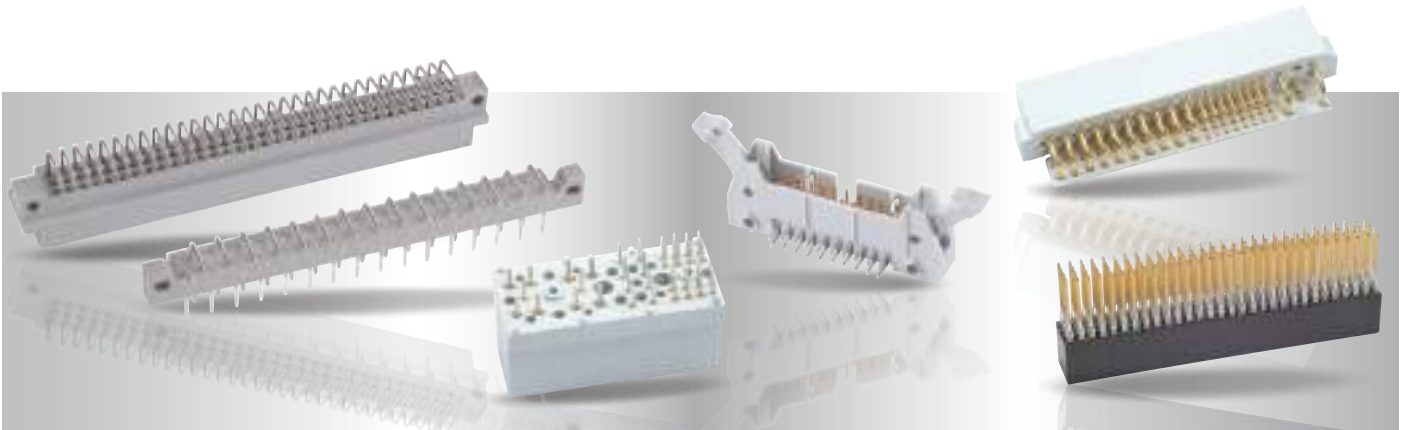
- 76 x 55 x 22 mm
- Cable inlets: 1, 3, 4
- Cable outlets: 3, 4
- Max. Cable diameter inlets: 17 mm
- Max. Cable diameter outlets: 13 mm (3 exits),
8 mm (4 exits)

Benefits

- Reduction of installation costs
- Fully protected cable harness
- Space saving design
- Robust design with minimum space requirements
- Different mounting options
- Degree of protection: IP67

ADDITIONAL CONEC PRODUCT CATEGORIES

PCB connectors



Overview

- DIN EN 60603-2
- DIN 41617
- AdvancedTCA
- Flat cable connector
- CompactPCI
- PC104/PC104Plus

Customized products



Many things are possible

Are you looking for application-specific solutions?

Please contact us – our expert team will support you from the product concept up to optimised serial production.

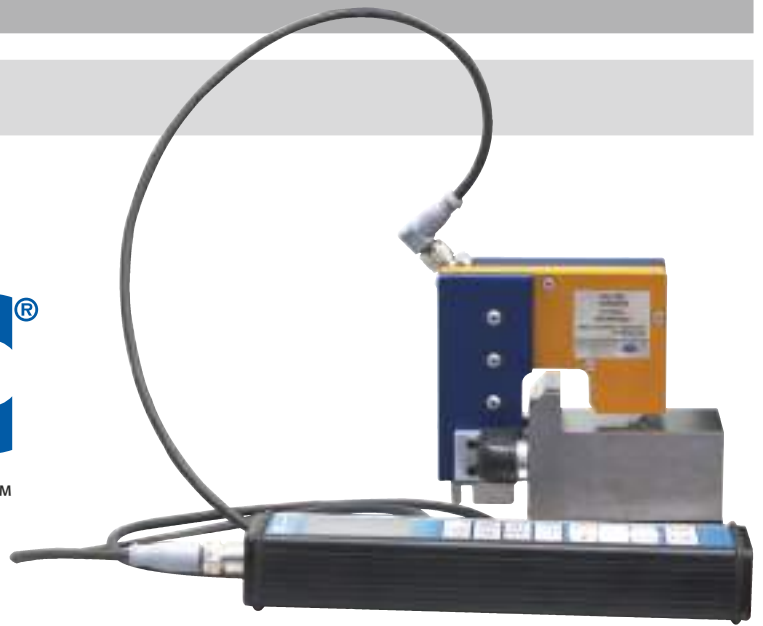
- Special interconnect solutions to customer specifications
- Prototypes and small series production batches
- Connectors with increased IP ratings for harsh environments
- Enclosure technology for industrial use

CUSTOMIZED PRODUCTS

Application-specific-solutions

CONEC[®]

TECHNOLOGY IN CONNECTORS[™]



Despite a comprehensive product portfolio of industrial connectors, customer requirements cannot always be satisfied from standard products. In such cases, it is essential to develop custom specific solutions for mechanical and plant engineering as quickly as possible.

Are you looking for application-specific solutions? The experienced CONEC design team creates solutions for you, for example:

- Special interconnect solutions to customer specifications
- Prototypes and small series production batches
- Connectors with increased IP ratings for harsh environments



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