



ITT

**Interconnect Solutions
Cannon, VEAM, BIW**

D Subminiature Accessories



Engineered for life

Cannon, VEAM, BIW

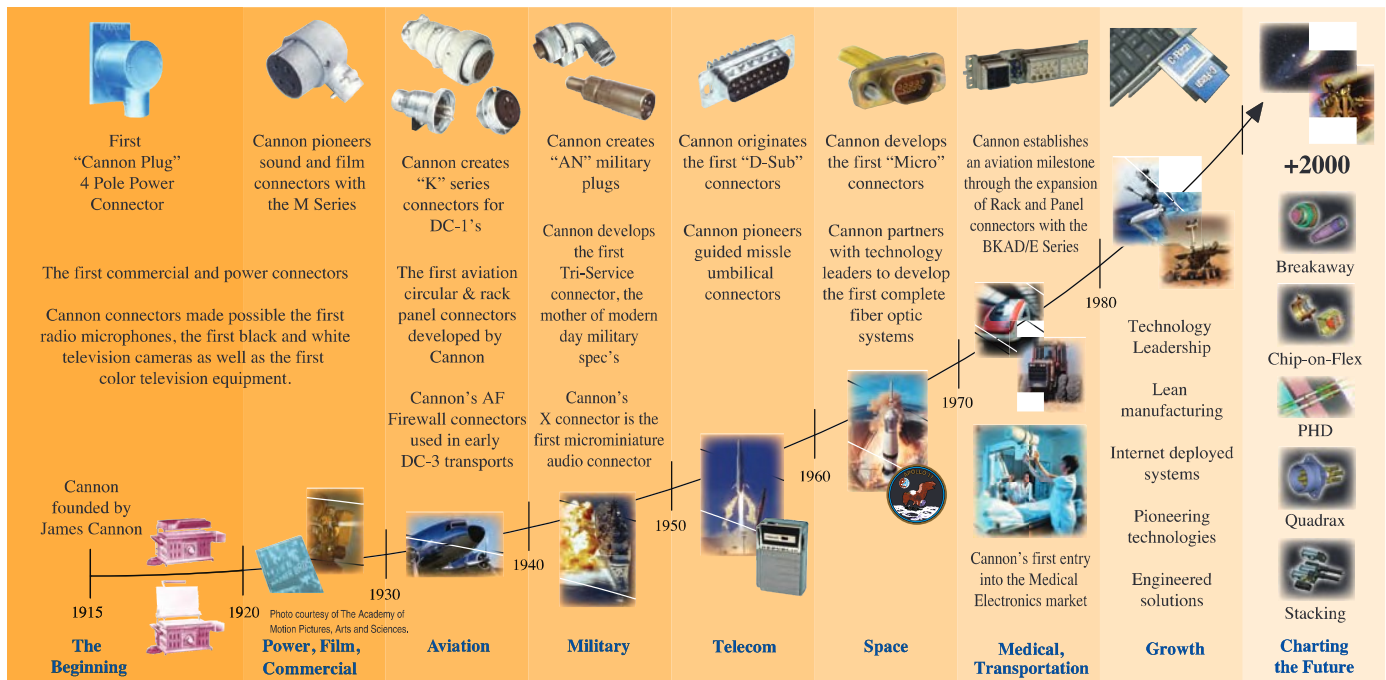
A Historical Achievement of Technology Leadership

Defining and Championing Innovation

Showcasing a portfolio of creativity, ITT's "Engineered For Life" execution embraces products which have become ubiquitous in a broad collection of markets including: Military/Aerospace, Civil Aircraft, Industrial Instrumentation, Medical, Oil & Gas, Energy, Transportation, Telecom/Handset, Computer, Consumer, and Automotive.

ITT's rich interconnect history embraces contributions to both technological breakthroughs and social movements. With one of the industry's broadest product offerings, ITT's interconnect products have supported:

- Every Free World space mission, bringing the universe to our doorstep.
- Motion picture, radio, and television equipment, serving laughter and entertainment to millions.
- Commercial and military communications systems, linking the voices of the world.
- Computerized tools, reshaping the information highway.
- Aircraft, rapid transit, and automobiles, mobilizing our expanding society.
- Oil and natural gas production, powering the world's economies.
- Agricultural equipment, attacking the roots of world hunger.



Description

D Subminiature Accessories

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Cannon D-Subminiature Accessories

Selection Guide



Locking Hardware

Backshell	Style	Female Screw Lock see page 14	Male Screw Lock see page 13	Sliding Lock Retainer see page 15	Slide Lock Post see page 15	Spring Latch Plate see page 16	Spring Latch see page 16
EMI Shielded	Snap-Together Metalized Plastic Straight Exit see page 9	—	—	—	—	—	—
EMI Shielded	Snap-Together Metalized Plastic 50° Exit see page 9	—	—	—	—	—	—
EMI Shielded	Die Cast Zinc Metal see page 4	—	▲	—	—	—	—
Metal	Metal Backshell 45° Exit see page 4	—	—	—	—	—	—
Metal	Deep Straight Clamp see page 7	•	•	•	•	•	•
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Plastic	Snap-Together Universal see page 11	•	•	—	—	—	—
Plastic	One-Piece Snap-Together see page 11	—	▲	—	—	—	—
Plastic	One-Piece Plastic Straight Exit see page 12	—	—	•	•	•	•
Plastic	One-Piece Plastic 90° Exit see page 12	—	—	•	•	•	•

- ▲ Supplied with backshell
- Optional compatible locking hardware
- Not compatible

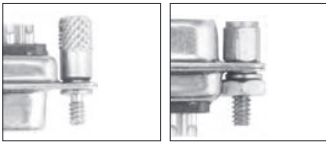


Dimensions shown in mm (inch)
Specifications and dimensions subject to change

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Cannon D-Subminiature Accessories

Selection Guide



Locking Hardware

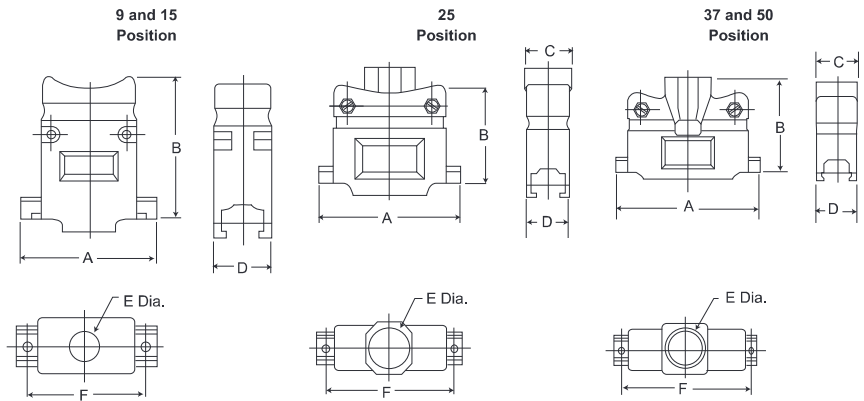
Jackscrew Assembly see page 17	Jackpost Assembly see page 17	Recessed Jackscrew see page 10	Extended Jackscrew see page 10	Thumbscrew see page 10	Jackpost for In-Line Connections see page 10
—	—	•	•	•	•
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Die Cast Zinc Backshell, Straight Exit, EMI Shielded



Die cast metal backshells reduce EMI/RFI emissions. Die cast metal backshells offer improved shielding in a rugged package.

Product Features

- Improves conformance to FCC DOC #20780 shielding requirements
- No crimp ferrule tooling needed
- Kit consists of 1 front shell, 1 rear shell, 2 screws, 2 hex nuts, 2 mounting screws, 2 end brackets, 1 set of compression inserts

Shell Size	Layout	Part Number	A ±0,13 (.005)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	øE ±0,13 (.005)	F ±0,13 (.005)
DE	9	980-2000-345	31,12 (1.225)	37,21 (1.465)	15,75 (.620)	15,75 (.620)	10,16 (.400)	24,99 (.984)
DA	15	980-2000-346	39,12 (1.540)	40,64 (1.600)	15,75 (.620)	15,75 (.620)	10,16 (.400)	33,32 (1.312)
DB	25	980-2000-347	53,09 (2.090)	39,37 (1.550)	17,53 (.690)	15,75 (.620)	13,34 (.525)	47,17 (1.857)
DC	37	980-2000-348	69,34 (2.730)	45,72 (1.800)	21,95 (.864)	15,75 (.620)	18,44 (.726)	63,50 (2.500)
DD	50	980-2000-349	66,70 (2.626)	45,72 (1.800)	21,95 (.864)	18,54 (.730)	18,44 (.726)	61,11 (2.406)

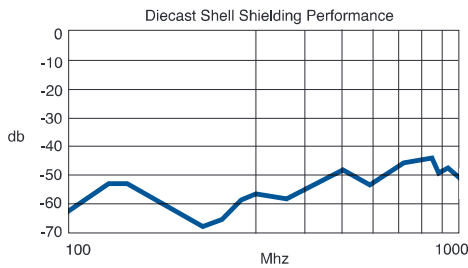
Specifications

Attenuation:	-50 dB @ 1000MHz
Temperature Range:	-20° C to 80° C

Materials and Finishes

Backshell Material:	Zinc
Backshell Finish:	Clear Zinc
Compression Inserts:	PVC
Hardware Material:	Steel
Hardware Finish:	Clear Zinc

Attenuation

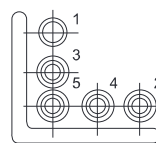


Compression inserts (included with die cast zinc metal backshell)

Compression inserts accommodate a wide variety of cable sizes.

Position	Cable Diameter
9,15	4,83/8,89 (.190/.350)
25	4,83/11,68 (.190/.460)
37,50	7,62/17,27 (.300/.680)

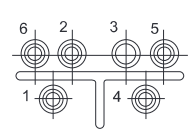
9 and 15 Position*



25 Position*



37 and 50 Position*



* Inserts may be supplied mirror image.

Position	#1		#2		#3		#4		#5		#6	
	O.D.	I.D.	O.D.	I.D.	O.D.	I.D.	O.D.	I.D.	O.D.	I.D.	O.D.	I.D.
9,15	12,07 (.475)	8,13 (.320)	9,14 (.360)	8,00 (.315)	9,14 (.360)	6,48 (.255)	9,14 (.360)	7,24 (.285)	9,14 (.360)	5,33 (.210)	—	—
25	15,24 (.600)	11,43 (.450)	11,43 (.450)	10,41 (.410)	11,43 (.450)	9,40 (.370)	11,43 (.450)	7,62 (.300)	11,43 (.450)	5,84 (.230)	—	—
37,50	16,64 (.655)	14,48 (.570)	17,78 (.700)	15,75 (.620)	20,57 (.810)	16,51 (.650)	16,64 (.655)	12,70 (.500)	16,64 (.655)	10,80 (.425)	16,64 (.655)	8,89 (.350)



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Metal Backshell Straight Exit

The new Cannon Metal Backshells D*FM series for D-Subminiature Connectors offers protection from magnetic and radio interferences to cable assemblies.

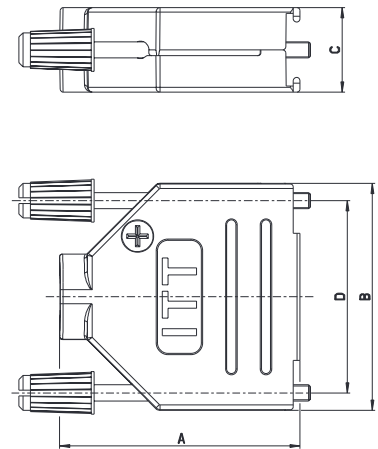
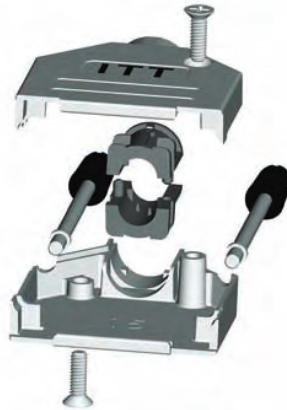


This backshell series is characterized by simple assembly and fit for industrial and telecom applications.

Product Features:

- No crimp ferrule tooling needed
- Material: Zinc, blue chromated
- Unique metal filled plastic cable strain relief guarantees 360° shielding
- RoHS compliant
- -40 - +120°C temperature range
- Corrosion resistant

Size 15



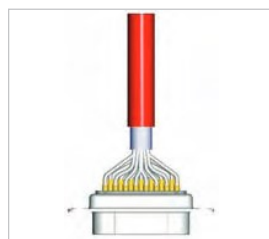
Part Description With #4-40 UNC Jackscrew	Part Description With M3 Jackscrew	Shell Size	A	B	C	D	Cable Diameter
DEFME-101	DEFMX-101	Size 9	39,55mm [1.555inch]	31,3mm [1.232inch]	14,6mm [0.575inch]	25,0mm [0.984inch]	4 - 9mm
DAFME-101	DAFMX-101	Size 15	41,7mm [1.642inch]	39,3mm [1.547inch]	14,6mm [0.575inch]	33,3mm [1.311inch]	4 - 9mm
DBFME-101	DBFMX-101	Size 25	49,0mm [1.929inch]	53,5mm [2.106inch]	14,6mm [0.575inch]	47,0mm [1.850inch]	4 - 9mm
DCFME-101	DCFMX-101	Size 37	53,3mm [1.098inch]	69,7mm [2.744inch]	14,6mm [0.575inch]	63,5mm [2.500inch]	4 - 9mm

Kit consists of 1 front shell, 1 rear shell, 4 strain reliefs, 2 mounting crosshead screws, and 2 jack screws.

Assembly instructions Size 9, 15, 25, 37



Use two halves of strain relief (different sizes can be mixed)



Strip cable 18mm and shape cable to two pigtailed



Attach the strain relief around the cable



Bend cable shielding back on outside of strain relief

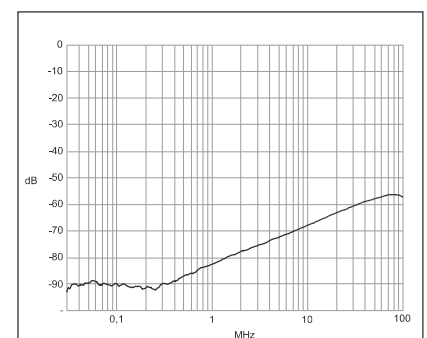


Mount connector and cable into the backshell



Assemble the other half (screwing force: 100-120 Ncm)

Attenuation curve



Dimensions shown in mm (inch)
Specifications and dimensions subject to change

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Metal Backshell 45° Exit

The new Cannon Metal Backshells D*FM series for D-Subminiature Connectors offers protection from magnetic and radio interferences to cable assemblies.



This backshell series is characterized by simple assembly and fit for Industrial and telecom applications.

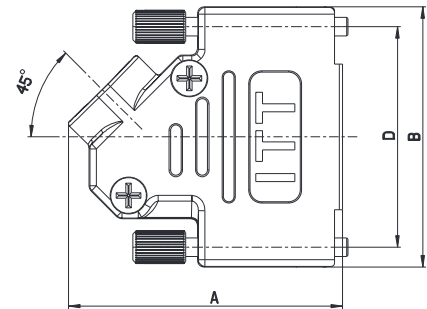
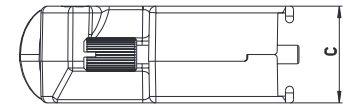
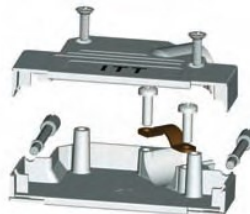
Product Features:

- No crimp ferrule tooling needed
- Material: Zinc, blue chromated
- Unique metal filled plastic cable strain relief guarantees 360° shielding
- RoHS compliant
- -40 - +120°C temperature range
- Corrosion resistant

Size 15



Size 50



Part Description With #4-40 UNC Jackscrew	Part Description With M3 Jackscrew	Shell Size	A	B	C	D	Cable Diameter
DEFME-100	DEFMX-100	Size 9*	37,5mm [1.476inch]	35,5mm [1.398inch]	14,6mm [0.575inch]		4 - 9mm
DAFME-100	DAFMX-100	Size 15**	41,5mm [1.634inch]	39,5mm [1.555inch]	14,6mm [0.575inch]	33,3mm [1.311inch]	4 - 9mm
DBFME-100	DBFMX-100	Size 25**	41,5mm [1.634inch]	53,5mm [2.106inch]	14,5mm [0.571inch]	47,0mm [1.850inch]	4 - 9mm
DCFME-100	DCFMX-100	Size 37**	41,5mm [1.634inch]	70,0mm [2.756inch]	14,5mm [0.571inch]	63,5mm [2.500inch]	4 - 9mm
DDFME-100	DDFMX-100	Size 50***	45,0mm [1.772inch]	67,5mm [2.657inch]	17,4mm [0.69inch]	61,0mm [2.402inch]	13-16mm

*Size 9 Backshell: Kit consists of 1 front shell, 1 rear shell, 4 strain reliefs, 2 mounting crosshead screws, 1 jack screw

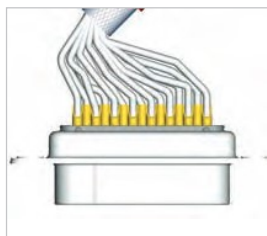
**Size 15, 25, 37 Backshell: Kit consists of 1 front shell, 1 rear shell, 4 strain reliefs, 2 mounting crosshead screws, 2 jack screws

***Size 50 Backshell: Kit consists of 1 front shell, 1 rear shell, 1 cable clamp, 4 mounting crosshead screws, 2 jack screws

Assembly instructions Size 9, 15, 25, 37



Use two halves of strain relief (different sizes can be mixed)



Strip cable 18mm and shape cable to two pigtailed



Attach the strain relief around the cable



Bend cable shielding back on outside of strain relief

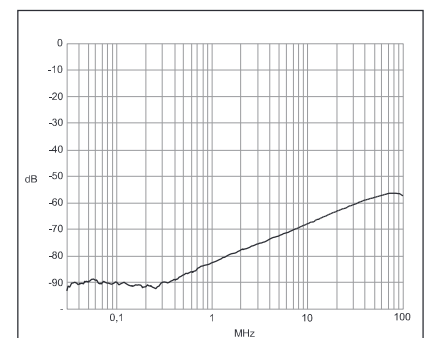


Mount connector and cable into the backshell



Assemble the other half (screwing force: 100-120 Ncm)

Attenuation curve



Dimensions shown in mm (inch)
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Metal Backshell

Metal Backshells provide strain relief. Various profiles available for different cable routing requirements.

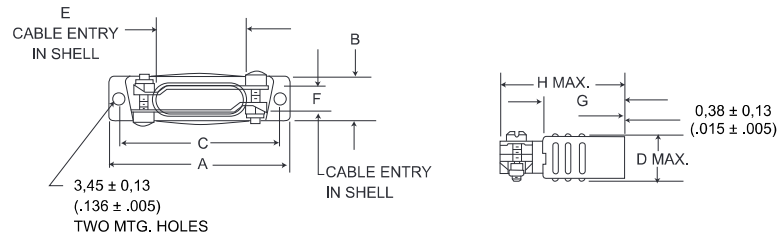
Product Features

Qualified to MIL-Spec M85049

Materials and Finishes

Backshell Material:	Low Carbon Steel or Brass
Backshell Finish:	Chromate over Cadmium (Mil Spec) or Zinc (RoHS)
Hardware Material:	Steel

Deep Straight Clamp



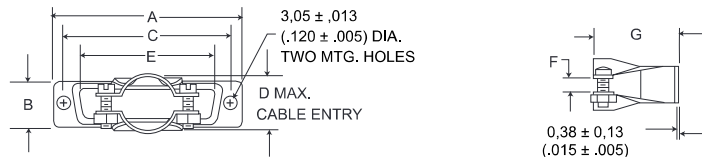
- Kit consists of 1 shell, 2 cable clamps, 2 screws, 2 hex nuts.

Shell Size	RoHS Compliant Part Number	Mil-Spec Parts (Brass)		Brass	
		Mil-Spec Part Number	Part Number	50 μ in. Gold over Copper	Part Number
DE	DE24657-29	M85049/48-1-6F	DE24657-5	DE24657-16	
DA	DA24658-28	M85049/48-1-7F	DA24658-2	DA24658-15	
DB	DB24659-27	M85049/48-1-8F	DB24659-2	DB24659-15	
DC	DC24660-27	M85049/48-1-9F	DC24660-11	DC24660-16	
DD	DD24661-27	M85049/48-1-10F	DD24661-4	DD24661-13	

Shell Size	Layout	Part Number	Mil Spec Part Number*	A ±0,38 (.015)	B ±0,572 (.0225)	C ±0,38 (.015) max.	D max.	E ±0,38 (.015)	F ±0,38 (.015)	G ±0,38 (.015)	H max.
DE	9	DE24657	M85049/48-1-1F	30,56 (1.203)	12,484 (.4915)	24,99 (.984)	14,68 (.578)	9,53 (.375)	9,53 (.375)	19,05 (.750)	31,75 (1.250)
DA	15	DA24658	M85049/48-1-2F	38,89 (1.531)	12,484 (.4915)	33,32 (1.312)	14,68 (.578)	18,11 (.713)	7,93 (.312)	19,05 (.750)	31,75 (1.250)
DB	25	DB24659	M85049/48-1-3F	52,78 (2.078)	12,484 (.4915)	47,04 (1.852)	14,68 (.578)	25,40 (1.000)	7,93 (.312)	25,40 (1.000)	39,70 (1.563)
DC	37	DC24660	M85049/48-1-4F	69,04 (2.718)	12,484 (.4915)	63,50 (2.500)	14,68 (.578)	34,93 (1.375)	7,93 (.312)	25,40 (1.000)	39,70 (1.563)
DD	50	DD24661	M85049/48-1-5F	66,68 (2.625)	15,253 (6.005)	61,11 (2.406)	17,45 (.578)	35,71 (1.406)	10,31 (.406)	28,57 (1.125)	42,88 (1.688)

* Parts ordered with no suffix or "Z" suffix will be substituted with "F" suffix.

Round Cable Clamp



- Kit consists of 1 shell, 2 cable clamps, 2 screws, 2 hex nuts.

Shell Size	RoHS Compliant Part Number	Mil-Spec Parts (Brass)		Brass	
		Mil-Spec Part Number	Part Number	50 μ in. Gold over Copper	Part Number
DE	DE44994-14	M85049/48-2-6F	DE44994-3	DE44994-2	
DA	DA20961-26	M85049/48-2-7F	DA20961-3	DA20961-16	
DB	DB20962-30	M85049/48-2-8F	DB20962-8	DB20962-18	
DC	DC20963-27	M85049/48-2-9F	DC20963-8	DC20963-17	
DD	DD20964-32	M85049/48-2-10F	DD20964-8	DD20964-19	

Shell Size	Layout	Part Number	Mil Spec Part Number*	A ±0,38 (.015)	B ±0,572 (.0225)	C ±0,38 (.015) max.	D max.	E ±0,38 (.015)	F ±0,38 (.015)	G ±0,76 (.030)
DE	9	DE44994	M85049/48-2-1F	30,68 (1.208)	12,70 (.500)	24,99 (.984)	10,31 (.406)	16,79 (.661)	3,18 (.125)	26,18 (1.031)
DA	15	DA20961	M85049/48-2-2F	38,89 (1.531)	12,70 (.500)	33,33 (1.312)	10,31 (.406)	24,99 (.984)	3,18 (.125)	26,18 (1.031)
DB	25	DB20962	M85049/48-2-3F	52,78 (2.078)	12,70 (.500)	47,04 (1.852)	15,06 (.593)	38,48 (1.515)	4,75 (.187)	26,98 (1.062)
DC	37	DC20963	M85049/48-2-4F	69,04 (2.718)	12,70 (.500)	63,50 (2.500)	18,23 (.718)	55,14 (2.171)	6,35 (.250)	26,98 (1.062)
DD	50	DD20964	M85049/48-2-5F	66,68 (2.625)	15,47 (.609)	61,11 (2.406)	20,62 (.812)	53,16 (2.093)	7,92 (.312)	26,98 (1.062)

* Parts ordered with no suffix or "Z" suffix will be substituted with "F" suffix.

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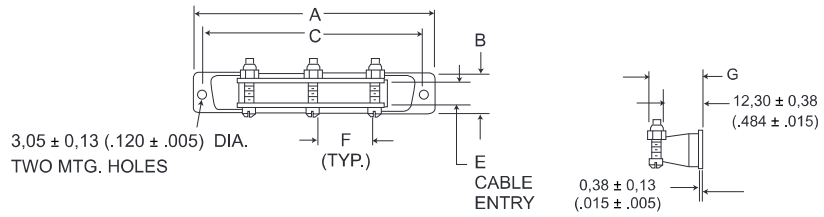


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Short Straight Clamp



- Kit consists of 1 shell, 2 or 3 screws, 2 or 3 hex nuts



Shell Size	RoHS Compliant Part Number	Mil-Spec Parts (Brass)		Brass	
		Mil-Spec Part Number	Part Number	50 μ in. Gold over Copper	Part Number
DA	DA19678-212	M85049/48-3-7F	DA19678-38	DA19678-167	
DB	DB19678-213	M85049/48-3-8F	DB19678-53	DA19678-168	
DC	DC19678-214	M85049/48-3-9F	DC19678-85	DA19678-138	
DD	DD19678-214	M85049/48-3-10F	DD19678-55	DA19678-161	

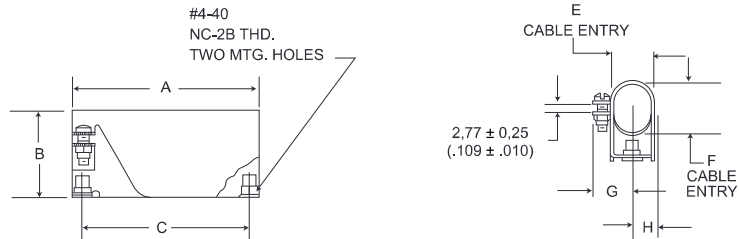
Shell Size	Layout	Part Number	Mil Spec Part Number*	No. of Cable Locking Screws Included	A	B	C	E	F	G
DA	15	DA19678-1	M85049/48-3-2F	2	38,88 (1.531)	12,70 (.500)	33,33 (1.312)	7,51 (.296)	7,93 (.312)	16,36 (.644)
DB	25	DB19678-2	M85049/48-3-3F	2	52,78 (2.078)	12,70 (.500)	47,04 (1.852)	7,51 (.296)	20,22 (.796)	16,36 (.644)
DC	37	DC19678-3	M85049/48-3-4F	3	69,04 (2.718)	12,70 (.500)	63,50 (2.500)	7,51 (.296)	17,45 (.687)	16,36 (.644)
DD	50	DD19678-4	M85049/48-3-5F	3	66,68 (2.625)	15,47 (.690)	61,11 (2.406)	9,91 (.390)	17,45 (.687)	17,63 (.694)

* Parts ordered with no suffix or "Z" suffix will be substituted with "F" suffix.

90° Entry



- Kit consists of 1 shell, 1 cable clamp, 1 screw, 1 nut, 2 rivnuts (assembled)



Shell Size	RoHS Compliant Part Number	Mil-Spec Parts (Brass)		Brass	
		Mil-Spec Part Number	Part Number	50 μ in. Gold over Copper	Part Number
DE	DE19977-72	M85049/50-6F	DE19977-20	DE19977-47	
DA	DA19977-68	M85049/50-7F	DA19977-6	DE19977-40	
DB	DB19977-69	M85049/50-8F	DB19977-17	DE19977-43	
DC	DC19977-70	M85049/50-9F	DC19977-18	DE19977-45	
DD	DC19977-71	M85049/50-10F	DD19977-19	DE19977-44	

Shell Size	Layout	Part Number	Mil Spec Part Number*	A	B	C	E	F	G	H
DE	9	DE19977-5	M85049/50-1F	30,56 (1.203)	18,24 (.718)	24,99 (.984)	11,10 (.437)	11,10 (.437)	11,89 (.468)	7,14 (.281)
DA	15	DA19977-1	M85049/50-2F	38,89 (1.531)	12,70 (.500)	33,33 (1.312)	11,10 (.437)	11,10 (.437)	11,89 (.468)	7,14 (.281)
DB	25	DB19977-2	M85049/50-3F	52,78 (2.078)	12,70 (.500)	47,04 (1.852)	11,10 (.437)	15,88 (.625)	11,89 (.468)	7,14 (.281)
DC	37	DC19977-3	M85049/50-4F	69,04 (2.718)	12,70 (.500)	63,50 (2.500)	11,10 (.437)	20,63 (.812)	11,89 (.468)	7,14 (.281)
DD	50	DD19977-4	M85049/50-5F	66,68 (2.625)	15,47 (.690)	61,11 (2.406)	14,28 (.562)	23,01 (.906)	13,47 (.531)	8,71 (.343)

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Dimensions shown in mm (inch)
Specifications and dimensions subject to change

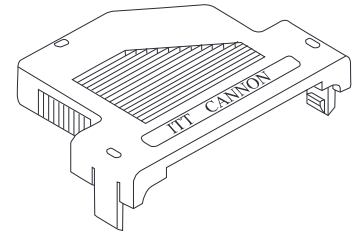
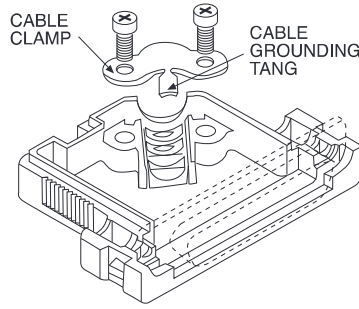
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Snap-Together Metalized Plastic

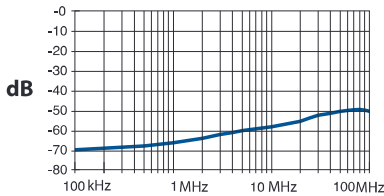
Metalized plastic backshells reduce EMI/RFI emissions. Metalized plastic provides a light weight solution. Includes integral strain relieving cable clamp.

Product Features

- Improves conformance to FCC DOC #20780 shielding requirements
- No crimp ferrule tooling needed
- Quick and simple assembly using snap-together design feature
- Non-metalized, non-shielded versions available



Attenuation Curve



Note: Cable grounding tang not available on DE size backshell.

Specifications

Attenuation:	-49 dB @ 100MHz
Temperature Range:	-20° C to 80° C

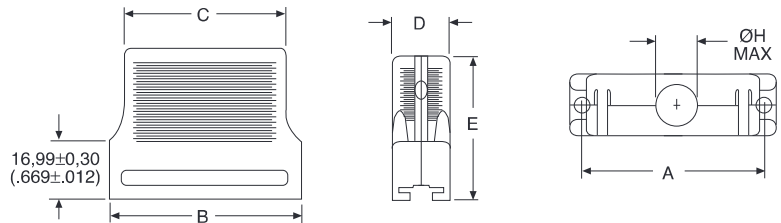
Materials and Finishes

Material:	Thermoplastic, UL 94V-0 rated
Finish:	Nickel over Copper

Straight Exit



- Kit consists of 1 front shell, 1 rear shell, 1 cable clamp, 2 screws
- Optional locking hardware sold separately, see page 10

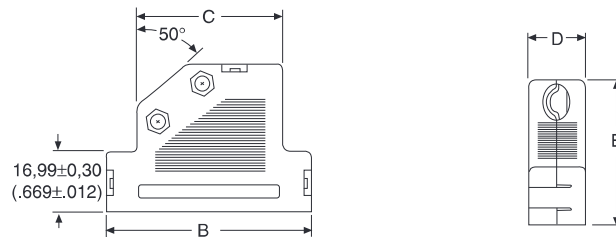


Shell Size	Layout	Computer Cable			Ribbon Cable		A	B	C	D	E	øH Max.
		Shielded	Non-Shielded	Gray	Non-Shielded	Gray						
DE	9	DE121073-154	DE121073-159	DE121073-259	DE121073-164	DE121073-169	24,95 (.982)	30,81 (1.213)	23,70 (.933)	16,00 (.630)	35,99 (1.417)	7,32 (.288)
DA	15	DA121073-150	DA121073-155	DA121073-255	DA121073-160	DA121073-165	33,30 (1.311)	39,09 (1.539)	31,80 (1.252)	16,00 (.630)	42,00 (1.654)	8,31 (.327)
DB	25	DB121073-151	DB121073-156	DB121073-256	DB121073-161	DB121073-166	47,00 (1.850)	53,01 (2.087)	45,01 (1.772)	16,00 (.630)	42,00 (1.654)	10,52 (.414)
DC	37	DC121073-152	DC121073-157	DC121073-257	DC121073-162	DC121073-167	63,45 (2.498)	69,29 (2.728)	60,30 (2.374)	16,00 (.630)	42,00 (1.654)	12,32 (.485)
DD	50	DD121073-153	DD121073-158	DD121073-258	-	-	61,10 (2.410)	66,90 (2.634)	58,30 (2.295)	19,00 (.748)	42,00 (1.654)	13,00 (.512)

50° Exit



- Kit consists of 1 front shell, 1 rear shell, 1 cable clamp, 2 screws
- Optional locking hardware sold separately, see page 5



Shell Size	Layout	Shielded Part #	Non-Shielded Part #	Gray	B	C	D	E	Cable Diameter	
									Min.	Max.
DE	9	DE121073-54	DE121073-59	Gray	35,99 (1.417)	22,00 (8.66)	16,00 (.630)	35,99 (1.417)	3,51 (.138)	7,49 (.295)
DA	15	DA121073-50	DA121073-55	Gray	44,29 (1.744)	27,31 (1.075)	16,00 (.630)	42,01 (1.654)	6,50 (.256)	8,99 (.354)
DB	25	DB121073-51	DB121073-56	Gray	57,99 (2.283)	41,00 (1.614)	16,00 (.630)	42,01 (1.654)	6,50 (.256)	11,00 (.433)
DC	37	DC121073-52	DC121073-57	Gray	74,50 (2.933)	57,51 (2.264)	16,00 (.630)	42,01 (1.654)	6,50 (.256)	11,00 (.433)
DD	50	DD121073-53	DD121073-58	Gray	72,97 (2.873)	54,99 (2.165)	19,00 (.748)	42,01 (1.654)	8,99 (.354)	13,00 (.512)

Dimensions shown in mm (inch)

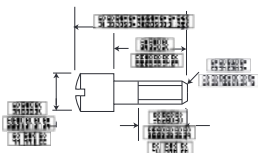
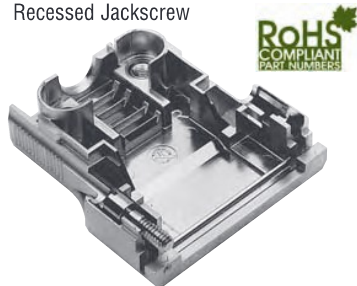
Specifications and dimensions subject to change

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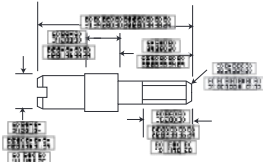
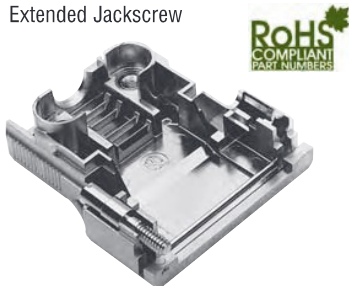


Locking Hardware for Snap -Together Plastic Backshell

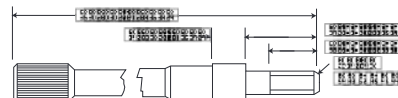
Recessed Jackscrew



Extended Jackscrew



Thumbscrew

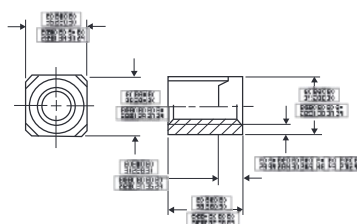


Materials and Finishes

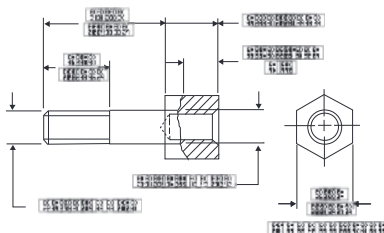
Part Number	Material	Finish	Quantity Required per Connector
250-8501-004	Brass	Nickel	2
250-8501-009 (M3) ,250-8501-010 (#4-40)	Brass	Nickel	2
250-8501-013	Brass	Nickel	2

Jackpost for In-Line Connections

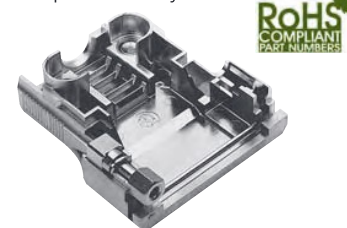
Rectangular Nut



Jackpost



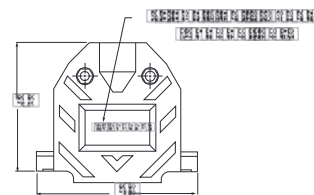
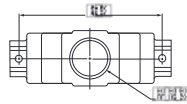
Jackpost Assembly



Assembly consists of 1 rectangular nut, 1 jackpost, 1 # 4-40 lock washer.

Part Number:	D121073-19
Material:	Brass
Finish:	Nickel
Quantity required per connector:	2

Straight Exit - Metalized Plastic Low Cost



- Kit consists of 1 front shell, 1 rear shell, 1 cable clamp, 2 screws

Shell Size Layout	Part Number	A	B	C	D	ø E	F
DE	980-2000-350	30,91 (1.217)	39,29 (1.547)	16,26 (.640)	16,26 (.640)	10,16 (.400)	24,99 (.984)
DA	980-2000-351	39,24 (1.545)	38,23 (1.505)	16,26 (.640)	16,26 (.640)	10,16 (.400)	33,32 (1.312)
DB	980-2000-352	53,09 (2.090)	42,04 (1.655)	18,03 (.710)	16,26 (.640)	13,26 (.522)	47,17 (1.857)
DC	980-2000-353	69,44 (2.734)	46,48 (1.830)	23,01 (.906)	16,26 (.640)	18,44 (.726)	63,50 (2.500)
DD	980-2000-354	67,18 (2.645)	47,12 (1.855)	23,88 (.940)	19,56 (.770)	18,44 (.726)	61,11 (2.406)

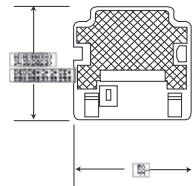
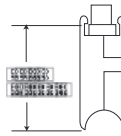
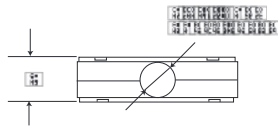
Materials and Finishes: Thermoplastic, UL 94V-0 rated, Nickel plated



Dimensions shown in mm (inch)
Specifications and dimensions subject to change

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Snap-Together Universal



- 2-piece snap-together design for quick assembly.
- Customer furnishes tie-wrap.

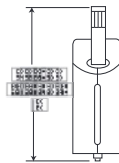
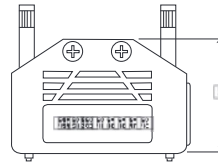
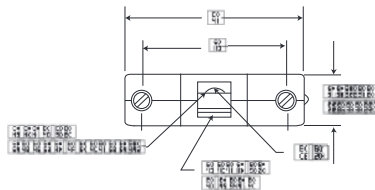
Shell Size	Layout	Part Number	øB max.	C ±0,20 (.008)	D ±0,20 (.008)
DE	9	DE115339-20	7,01 (.276)	17,00 (.669)	19,51 (.768)
DA	15	DA115339-21	9,60 (.378)	17,00 (.669)	27,79 (1.094)
DB	25	DB115339-22	11,61 (.457)	17,00 (.669)	41,61 (1.638)
DC	37	DC115339-23	13,00 (.512)	17,00 (.669)	59,99 (2.283)
DD	50	DD115339-24	16,00 (.630)	19,81 (.780)	52,32 (2.060)

Note: Part Numbers above replace the following part number series: DE110963-1 to DD110963-5

Materials and Finishes

Material: Black Thermoplastic,
UL 94V-0 rated

One-Piece Snap-Together



- Low cost
- Easy to assemble
- Mounting hardware included
- 2 thumbscrews, 2 cable clamps

Shell Size	Layout	Part Number	A	C	ø D max.	E
DE	9	DEBS-9	35,20 (1.386)	24,99 (.984)	5,69 (.224)	27,51 (1.083)
DA	15	DABS-15	43,31 (1.705)	33,33 (1.312)	5,69 (.224)	31,19 (1.228)
DB	25	DBBS-25	57,20 (2.252)	47,04 (1.852)	6,50 (.256)	38,30 (1.508)
DC	37	DCBS-37	72,00 (2.83)	62,00 (2.44)	7,80 (.307)	43,08 (1.69)
DD	50	DDBS-50	73,70 (2.90)	63,70 (2.50)	8,20 (.322)	48,04 (1.89)

Materials and Finishes

Backshell Material: Polypropylene
Hardware Material: Steel
Hardware Finish: Black Nickel

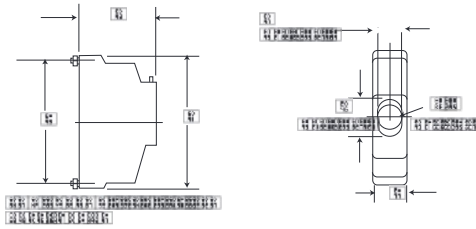
Dimensions shown in mm (inch)
Specifications and dimensions subject to change

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One-Piece Plastic

Straight Exit



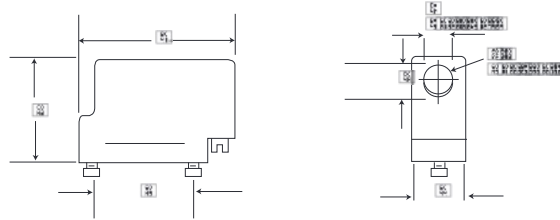
- Kit consists of 1 shell, 1 cable clamp, 1 set screw
- Mounting hardware included
- 2 screws #4-24 x 5/16 long self tapping
- Accommodates spring latches

Materials and Finishes

Material:	Black Thermoplastic, UL 94V-0 rated
Hardware Material:	Steel
Hardware Finish:	Chromate over Zinc

Shell Size	Part Layout Number	A	B	C	D	øE	F	G
DE 9	DE51218	30,94 (1.218)	25,40 (1.000)	24,99 (.984)	12,70 (.500)	7,14 (.281)	—	—
DA 15	DA51210	39,27 (1.546)	25,40 (1.000)	33,33 (1.312)	12,70 (.500)	9,14 (.360)	—	—
DB 25	DB51212	53,16 (2.093)	31,75 (1.250)	47,04 (1.852)	12,70 (.500)	—	12,52 (.493)	9,15 (.360)
DC 37	DC51214	69,44 (2.734)	38,10 (1.500)	63,50 (2.500)	12,70 (.500)	—	17,63 (.694)	9,15 (.360)
DD 50	DD51216	67,06 (2.640)	38,10 (1.500)	61,11 (2.406)	15,47 (.690)	—	18,64 (.734)	11,89 (.468)

90° Exit



- Kit consists of 1 shell, 1 cable clamp, 1 set screw
- Mounting hardware included
- 2 screws #4-24 x 5/16 long self tapping

Materials and Finishes

Material:	Black Thermoplastic, UL 94V-0 rated
Hardware Material:	Steel
Hardware Finish:	Chromate over Zinc

Shell Size	Part Layout Number	A	B	C	D	øH	J	K
DE 9	DE51219	37,95 (1.494)	25,40 (1.000)	24,99 (.984)	12,70 (.500)	7,14 (.281)	—	—
DA 15	DA51211	46,28 (1.822)	25,40 (1.000)	33,33 (1.312)	12,70 (.500)	9,14 (.360)	—	—
DB 25	DB51213	60,15 (2.368)	31,75 (1.250)	47,04 (1.852)	12,70 (.500)	—	12,52 (.493)	9,15 (.360)
DC 37	DC51215	76,43 (3.009)	38,10 (1.500)	63,50 (2.500)	12,70 (.500)	—	17,63 (.694)	9,15 (.360)
DD 50	DD51217	74,04 (2.915)	38,10 (1.500)	61,11 (2.406)	15,47 (.690)	—	18,64 (.734)	11,89 (.468)



Dimensions shown in mm (inch)
Specifications and dimensions subject to change

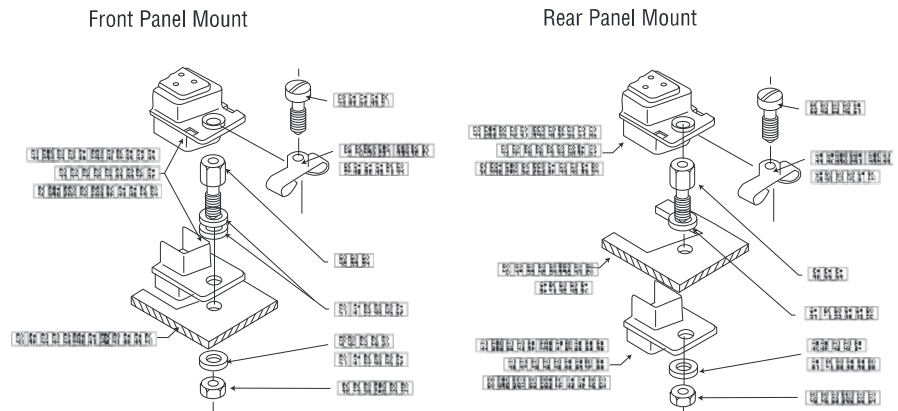
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Screw Lock Assemblies

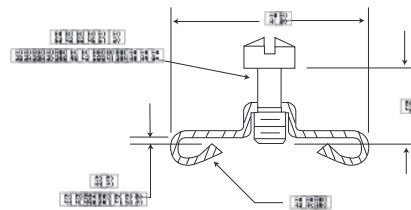
ITT offers the largest variety of locking and latching hardware. Refer to the accessories selection guide on pages 2-3 for use with Cannon backshells.

Product Features

- Ensures positive mating
- Provides locking and latching for high vibration applications



Male Screw Lock



- Kit consists of 1 screw and 1 clip
- Order 2 per connector
- Similar to M24308/25

Materials and Finishes

Material:	Steel
Finish:	Trivalent Chromate over Zinc

Part Number	Part Number	Part Number	Part Number	Part Number	Part Number	Part Number	Part Number
DE, DA, DB, DC	D20419	D20419-119	14,10 (.555)	6,35 (.250)	1,22 (.048)	D20419-211	D20419-218
DE, DA, DB, DC	D20419-18	D20419-121	14,10 (.555)	7,14 (.281)	1,70 (.067)	D20419-212	D20419-219
DE, DA, DB, DC	D20419-21	D20419-122	14,10 (.555)	7,14 (.281)	2,34 (.092)	D20419-213	D20419-220
DE, DA, DB, DC	D20419-104	D20419-216	14,10 (.555)	7,92 (.312)	2,34 (.092)	D20419-214	D20419-221
DD	D20420	D20420-097	16,66 (.656)	6,35 (.250)	1,22 (.048)	D20420-157	D20420-163
DD	D20420-13	D20420-099	16,66 (.656)	7,14 (.281)	1,70 (.067)	D20420-158	D20420-164
DD	D20420-15	D20420-100	16,66 (.656)	7,14 (.281)	2,34 (.092)	D20420-159	D20420-165
DD	D20420-86	D20420-162	16,66 (.656)	7,92 (.312)	2,34 (.092)	D20420-160	D20420-166

Dimensions shown in mm (inch)
 Specifications and dimensions subject to change

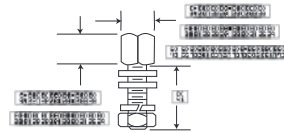
www.ittcannon.com



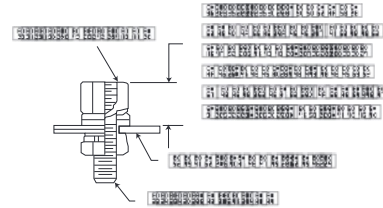
Female Screw Lock



Front Panel Mount



Rear Panel Mount

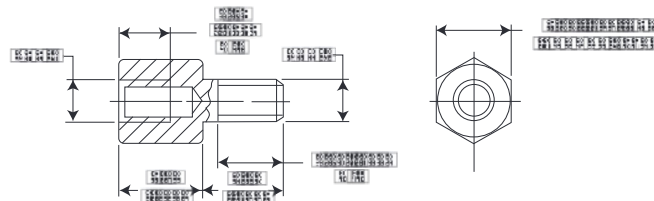
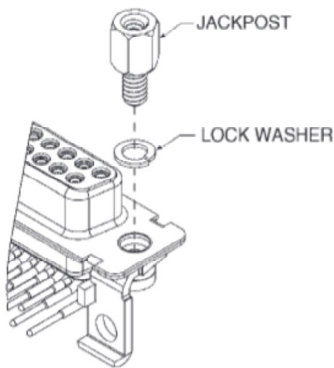


- Kit consists of 1 nut, 3 washer, 1 lock washer, 1 hex nut.
- Order 2 per connector.

Material: Steel
 Finish: Chromate over Cadmium (Mil Spec) or Zinc (RoHS)

Part Number	Part Number	Part Number	Part Number	Dimension	Part Number
D20418-2	D20418-82	D20418-128	D20418-134	7,92 (.312)	M24308/26-1F
D20418-50	D20418-131	-	D20418-135	12,70 (.500)	-
D20418-39	D20418-83	D20418-129	D20418-136	15,88 (.625)	M24308/26-2F
D20418-74	D20418-132	-	D20418-137	19,05 (.750)	-

Screw Locks for Connectors with Integral Threaded Inserts



Part Number	Part Number	Part Number
D121073-39	# 4-40 UNC-2B	# 4-40 UNC-2A
D112041 *	# 4-40 UNC-2B	# 4-40 UNC-2A
D121073-42	M3	M3

* without lock washer

- Kit consists of 1 jackpost, 1 lock washer.
- Order 2 per connector.

Loose Spacer

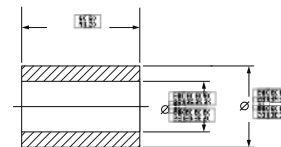
Part Number: 253-0343-000 (D*M Style)

Dim A
 5.84 ± .08 (.230 ± .003)

Part Number: 253-0343-011 (D*MA Style)

9.40 ± .13 (.370 ± .005)

Material: Aluminum
 Finish: Chromate over Cadmium



Dimensions shown in mm (inch)
 Specifications and dimensions subject to change

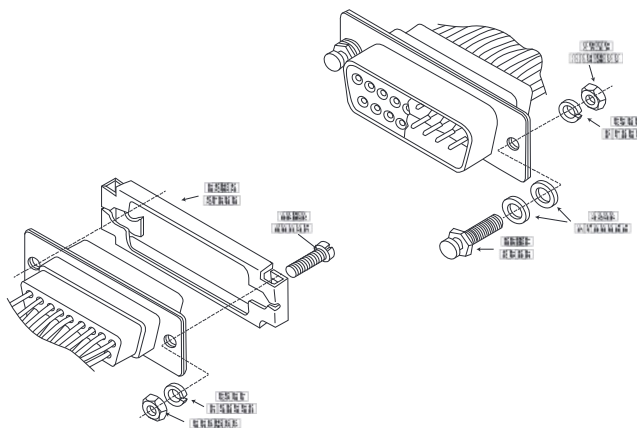
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Slide Lock Assemblies

ITT offers the largest variety of locking and latching hardware. Refer to the accessories selection guide on pages 2-3 for use with Cannon backshells.

Product Features

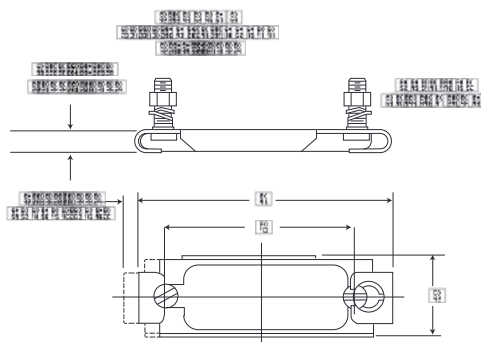
- Ensures positive mating
- Provides locking and latching for high vibration applications



Sliding Lock Retainer Assembly



- Kit consists of 1 sliding lock plate, 2 mounting screws, 2 lock washer, 2 hex nuts
- Order 1 kit per connector



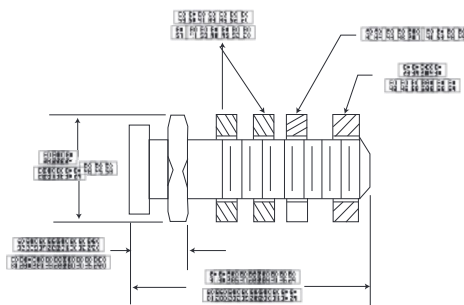
Descriptions	Material	Finish/ Treatment
Sliding Lock Plate	Stainless Steel	Passivated
Screw, Mounting	Steel	Trivalent
Washer Lock	Steel	Chromate over
Nut, Hex	Steel	Zinc

Part Number	Part Number	Part Number	PT	ES	ES
DE	9	DE51224-1	35,05 (1.380)	12,70 (.500)	25,00 (.984)
DA	15	DA51220-1	43,70 (1.720)	12,70 (.500)	33,32 (1.312)
DB	25	DB51221-1	57,40 (2.260)	12,70 (.500)	47,04 (1.852)
DC	37	DC51222-1	73,86 (2.908)	12,70 (.500)	63,50 (2.500)
DD	50	DD51223-1	71,47 (2.814)	15,47 (.609)	61,11 (2.406)

Slide Lock Post Assemblies



- Consists of 1 post, 2 washers, 1 lock washer, and 1 hex nut.¹
- Order 2 per connector.²



Part Number:	Each ^{1,2}	Kit of 2 each	
D53018		D53018-11	Material: Steel, Finish: Chromate/Zinc
D53018-14		D53018-20	Material: Stainless Steel, Finish: Passivated

1. The post is used in conjunction with the lock washer and washers. 2. The post is used in conjunction with the lock washer and washers.

Dimensions shown in mm (inch)
Specifications and dimensions subject to change

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Spring Latch Assemblies

ITT offers the largest variety of locking and latching hardware. Refer to the accessories selection guide on pages 2-3 for use with Cannon backshells.

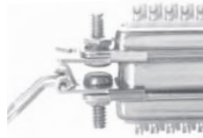
Product Features

- Low Cost
- Minimizes field connection time
- Positive lock between connectors
- Packaged 2 kits per bag

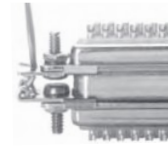
Materials and Finishes

Material:	Stainless Steel
Treatment:	Passivated

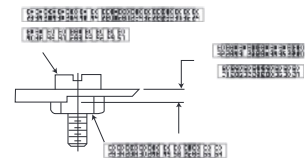
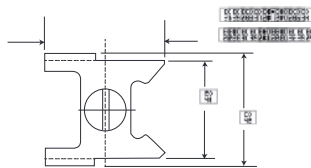
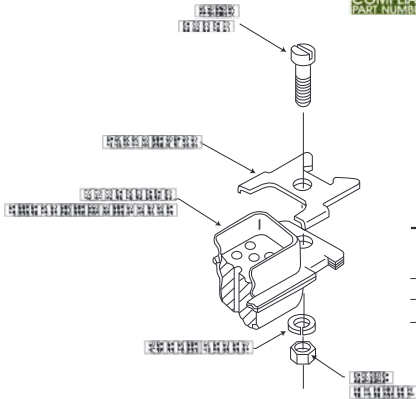
Unlocked



Locked



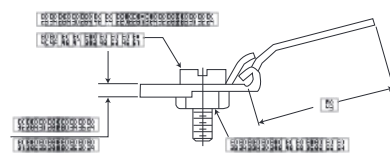
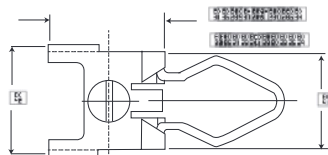
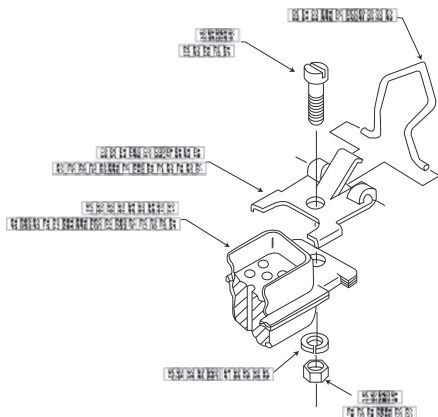
Spring Latch Plate Assembly



Shell Size	Layout	Part Number	A ± 0,38 (.015)	B ± 0,38 (.015)	Part Number Kit of 2 each
DE, DA, DB, DC	9,15, 25, 37	D110278	12,42 (.489)	14,35 (.565)	D110278-4
DD	50	D110280	15,47 (.609)	17,09 (.673)	D110280-3

- Kit consists of 1 plate, 1 screw, 1 lock washer, 1 hex nut.
- Order 2 kits per connector.

Spring Latch Assembly



Shell Size	Layout	Part Number	A ± 0,38 (.015)	B ± 0,38 (.015)	C ± 0,51 (.020)	Part Number Kit of 2 each
DE, DA, DB, DC	9,15, 25, 37	D110277	12,42 (.489)	14,35 (.565)	18,59 (.732)	D110277-2
DD	50	D110279	15,47 (.609)	17,09 (.673)	18,59 (.732)	D110279-3

D110277-4 Rear panel mount version also available

- Kit consists of 1 spring, 1 screw, 1 bracket, 1 lock washer, 1 hex nut.
- Order 2 kits per connector. Front panel mounting.



Dimensions shown in mm (inch)
Specifications and dimensions subject to change

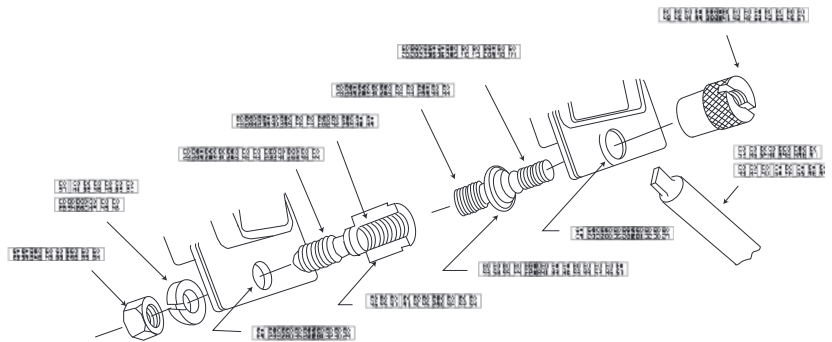
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Jackscrew/Jackpost Assemblies

ITT offers the largest variety of locking and latching hardware. Refer to the accessories selection guide on pages 2-3 for use with Cannon backshells.

Jackscrew Assembly

Jackpost Assembly

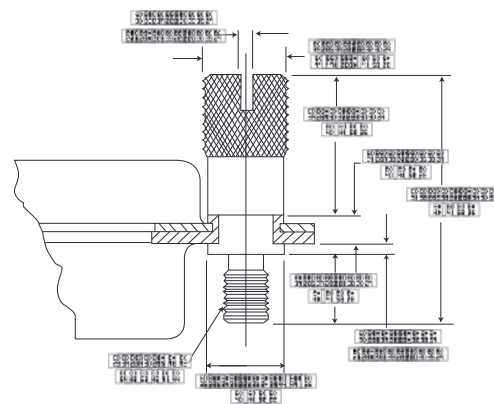


Jackscrew Assembly



- Kit consists of 2 studs, 2 heads,
1 tube retaining compound (US only)
- Order one kit per connector

Part Number:	D110550
Materials and Finishes	
Material:	Stainless Steel
Treatment:	Passivated

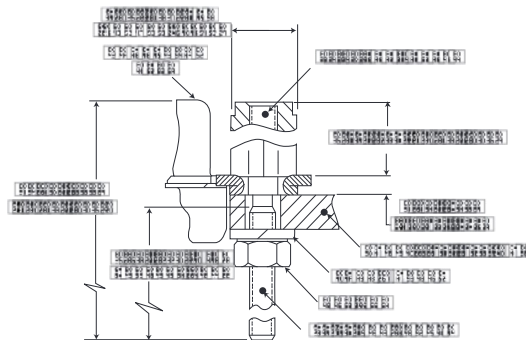


Jackpost Assembly



- Kit consists of 2 posts, 2 hex nuts, 2 lock washer
- Order one kit per connector

Part Number:	D110551
Materials and Finishes	
Material:	Stainless Steel
Treatment:	Passivated



NOTE: Jack post is not compatible with rear-panel mount connectors.

Dimensions shown in mm (inch)
Specifications and dimensions subject to change

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Guide Pin Plate

Female



- Useful in blind mate applications.
- Kit consists of 1 plate, 2 screws.
- Guide pin inserts for Size 8 cavities for Combo D® connectors also available. Refer to Combo D Catalog.

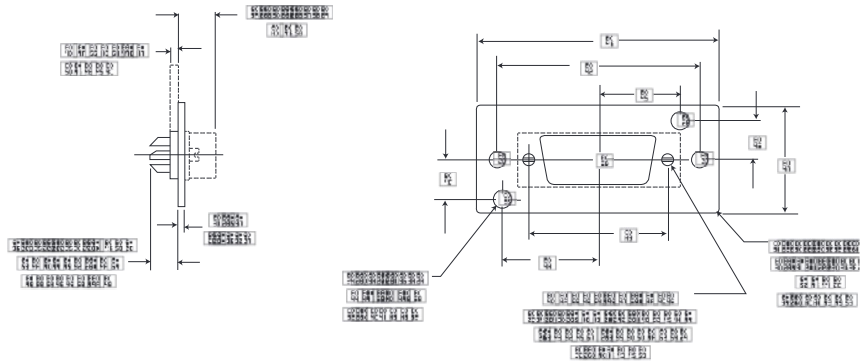
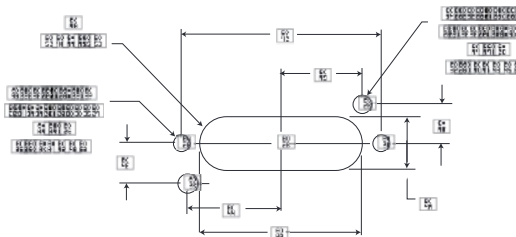


Plate and Hardware Material: Steel
 Plate and Hardware Finish: Chromate over Zinc

Shell Size	Layout	Part Number	A ±0,41 (.016)	B ±0,13 (.005)	C ±0,13 (.005)	D ±0,13 (.005)	E ±0,13 (.005)	F ±0,13 (.005)	G ±0,41 (.016)	H ±0,41 (.016)	J ±0,41 (.016)	K ±0,41 (.016)
DE	9	DE111920	49,61 (1.953)	40,08 (1.578)	25,00 (.986)	18,65 (.734)	15,27 (.601)	9,52 (.375)	25,40 (1.000)	30,58 (1.204)	12,29 (.484)	6,15 (.242)
DA	15	DA22214	57,96 (2.282)	48,41 (1.906)	33,32 (1.312)	22,81 (.898)	19,43 (.765)	9,52 (.375)	25,40 (1.000)	38,91 (1.532)	12,29 (.484)	6,15 (.242)
DB	25	DB22254	71,63 (2.820)	62,13 (2.446)	47,04 (1.852)	29,67 (1.168)	26,29 (1.035)	9,52 (.375)	25,40 (1.000)	51,21 (2.016)	11,91 (.469)	5,94 (.234)
DC	37	DC22071	88,11 (3.469)	78,59 (3.094)	63,50 (2.500)	37,90 (1.492)	34,52 (1.359)	9,52 (.375)	25,40 (1.000)	67,49 (2.657)	11,91 (.469)	5,94 (.234)
DD	50	DD21961	85,72 (3.375)	76,20 (3.000)	61,11 (2.406)	36,50 (1.437)	33,32 (1.312)	11,10 (.437)	28,58 (1.125)	65,10 (2.563)	14,30 (.563)	7,16 (.282)

Recommended Panel Cutout



Dimensions shown in mm (inch)
 Specifications and dimensions subject to change

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