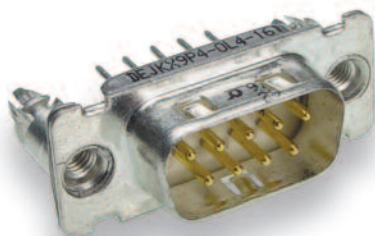




# ITT

Interconnect Solutions  
Cannon, VEAM, BIW

## D Subminiature Accessories



*Engineered for life*

# Cannon D-Subminiature Accessories

## Selection Guide



### Locking Hardware

| Backshell    | Style                                                             | Female Screw Lock<br>see page 14 | Male Screw Lock<br>see page 13 | Sliding Lock<br>Retainer<br>see page 15 | Slide Lock Post<br>see page 15 | Spring Latch Plate<br>see page 16 | Spring Latch<br>see page 16 |
|--------------|-------------------------------------------------------------------|----------------------------------|--------------------------------|-----------------------------------------|--------------------------------|-----------------------------------|-----------------------------|
| EMI Shielded | Snap-Together<br>Metalized Plastic<br>Straight Exit<br>see page 9 | —                                | —                              | —                                       | —                              | —                                 | —                           |
| EMI Shielded | Snap-Together<br>Metalized Plastic<br>50° Exit<br>see page 9      | —                                | —                              | —                                       | —                              | —                                 | —                           |
| EMI Shielded | Die Cast Zinc<br>Metal<br>see page 4                              | —                                | ▲                              | —                                       | —                              | —                                 | —                           |
| Metal        | Metal Backshell<br>45° Exit<br>see page 4                         | —                                | —                              | —                                       | —                              | —                                 | —                           |
| Metal        | Deep Straight<br>Clamp<br>see page 7                              | •                                | •                              | •                                       | •                              | •                                 | •                           |
| Metal        | Round Cable<br>Clamp<br>see page 7                                | •                                | •                              | •                                       | •                              | •                                 | •                           |
| Metal        | Short Straight<br>Clamp<br>see page 8                             | •                                | •                              | •                                       | •                              | •                                 | •                           |
| Metal        | 90° Entry<br>see page 8                                           | •                                | •                              | •                                       | •                              | •                                 | •                           |
| Plastic      | Snap-Together<br>Universal<br>see page 11                         | •                                | •                              | —                                       | —                              | —                                 | —                           |
| Plastic      | One-Piece<br>Snap-Together<br>see page 11                         | —                                | ▲                              | —                                       | —                              | —                                 | —                           |
| Plastic      | One-Piece Plastic<br>Straight Exit<br>see page 12                 | —                                | —                              | •                                       | •                              | •                                 | •                           |
| Plastic      | One-Piece Plastic<br>90° Exit<br>see page 12                      | —                                | —                              | •                                       | •                              | •                                 | •                           |

▲ Supplied with backshell

• Optional compatible locking hardware

— Not compatible

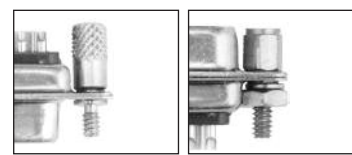


Dimensions shown in mm (inch)  
Specifications and dimensions subject to change

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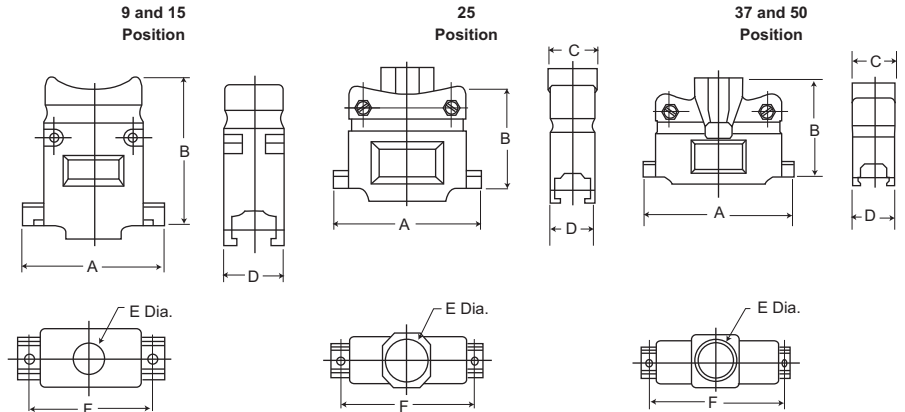
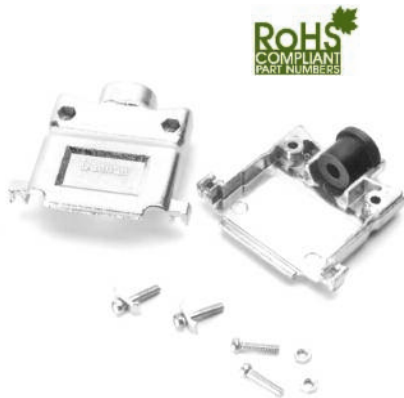
# Cannon D-Subminiature Accessories

## Selection Guide



| Locking Hardware                  |                                  |                                   |                                   |                           |                                                    |
|-----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|---------------------------|----------------------------------------------------|
| Jackscrew Assembly<br>see page 17 | Jackpost Assembly<br>see page 17 | Recessed Jackscrew<br>see page 10 | Extended Jackscrew<br>see page 10 | Thumbscrew<br>see page 10 | Jackpost for<br>In-Line Connections<br>see page 10 |
| —                                 | —                                | •                                 | •                                 | •                         | •                                                  |
| —                                 | —                                | •                                 | •                                 | •                         | •                                                  |
| —                                 | —                                | —                                 | —                                 | —                         | —                                                  |
| —                                 | —                                | —                                 | —                                 | —                         | —                                                  |
| —                                 | •                                | —                                 | —                                 | —                         | —                                                  |
| —                                 | •                                | —                                 | —                                 | —                         | —                                                  |
| —                                 | •                                | —                                 | —                                 | —                         | —                                                  |
| —                                 | —                                | —                                 | —                                 | —                         | —                                                  |
| —                                 | —                                | —                                 | —                                 | —                         | —                                                  |
| —                                 | —                                | —                                 | —                                 | —                         | —                                                  |
| —                                 | —                                | —                                 | —                                 | —                         | —                                                  |
| —                                 | —                                | —                                 | —                                 | —                         | —                                                  |
| —                                 | —                                | —                                 | —                                 | —                         | —                                                  |

## Die Cast Zinc Metal Backshell Straight Exit



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<br>±0,13 (.005) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | øE<br>±0,13 (.005) | F<br>±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)     |

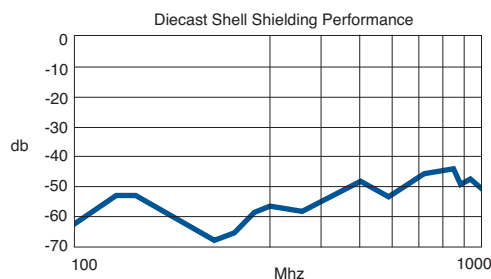
### Specifications

|                    |                  |
|--------------------|------------------|
| 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

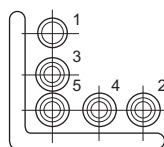


Compression inserts (included with die cast zinc metal backshell)

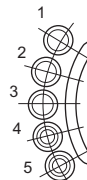
Compression inserts accommodate a wide variety of cable sizes.

| 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) |

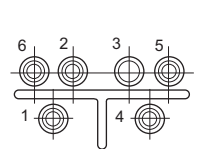
9 and 15 Position\*



25 Position\*



37 and 50 Position\*



\* Inserts may be supplied mirror image.

| Position | #1 O.D.      | #1 I.D.      | #2 O.D.      | #2 I.D.      | #3 O.D.      | #3 I.D.      | #4 O.D.      | #4 I.D.      | #5 O.D.      | #5 I.D.      | #6 O.D.      | #6 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) |

## D Subminiature 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.

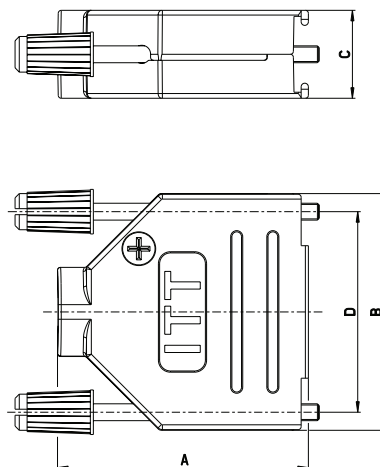
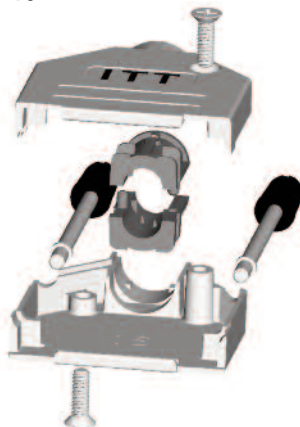


This backshell series is characterized by simple assembly and fit for industrial and telecom applications.

### 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

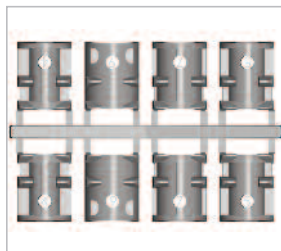
Size 15



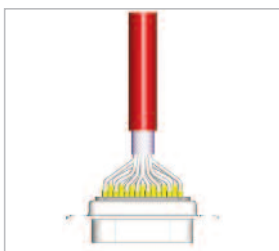
| Part Description<br>With #4-40 UNC<br>Jackscrew | Part Description<br>With M3<br>Jackscrew | Shell<br>Size | A                   | B                  | C                  | D                  | Cable<br>Diameter |
|-------------------------------------------------|------------------------------------------|---------------|---------------------|--------------------|--------------------|--------------------|-------------------|
| 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.

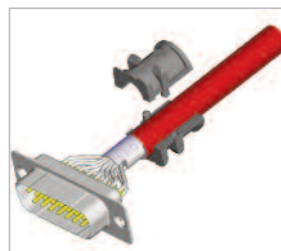
### Assembly instructions Size 9, 15, 25, 37



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



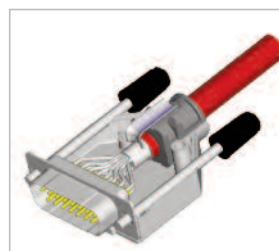
Strip cable 18mm and shape cable to two pigtails



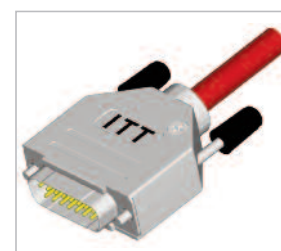
Attach the strain relief around the cable



Bend cable shielding back on outside of strain relief

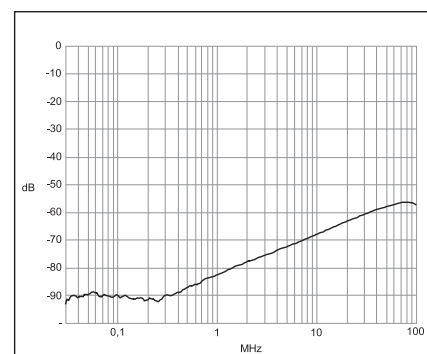


Mount connector and cable into the backshell



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

Attenuation curve



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

[www.ittcannon.com](http://www.ittcannon.com)



## D Subminiature 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.

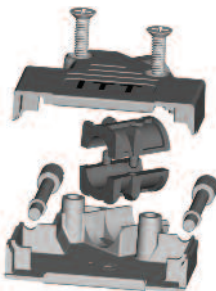


This backshell series is characterized by simple assembly and fit for Industrial and telecom applications.

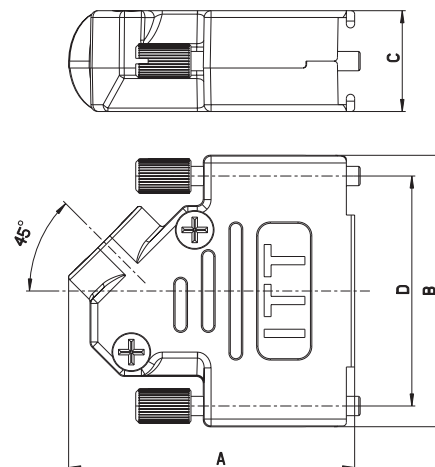
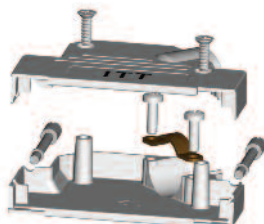
### Product Features:

- 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



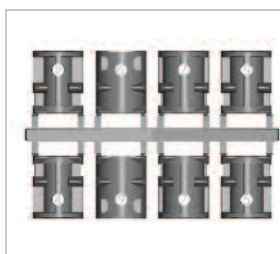
| Part Description<br>With #4-40 UNC<br>Jackscrew | Part Description<br>With M3<br>Jackscrew | Shell<br>Size | A                  | B                  | C                  | D                  | Cable<br>Diameter |
|-------------------------------------------------|------------------------------------------|---------------|--------------------|--------------------|--------------------|--------------------|-------------------|
| 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 [0,69inch]  | 17,4mm [0,780inch] | 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

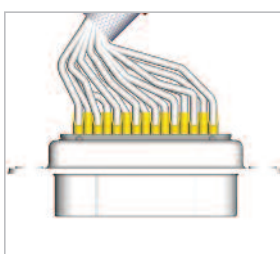
\*\*Size 15, 25, 37 Backshell: Kit consists of 1 front shell, 1 rear shell, 4 strain reliefs, 2 mounting crosshead screws, 2 jack screws

\*\*\*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



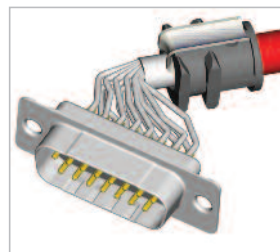
Use two halves of strain relief  
(different sizes can be mixed)



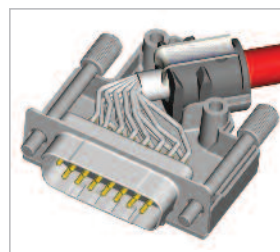
Strip cable 18mm and shape  
cable to two pigtails



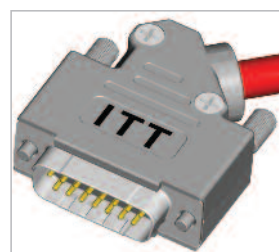
Attach the strain relief around  
the cable



Bend cable shielding back on  
outside of strain relief

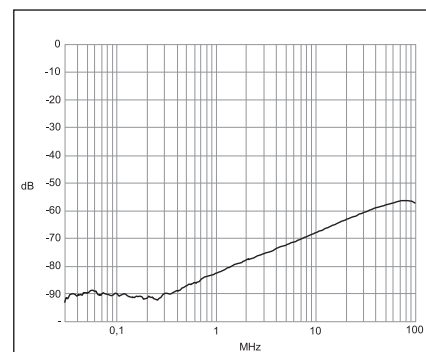


Mount connector and cable into  
the backshell



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

Attenuation curve



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

www.ittcannon.com



## Metal Backshell

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

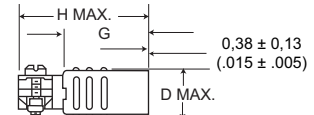
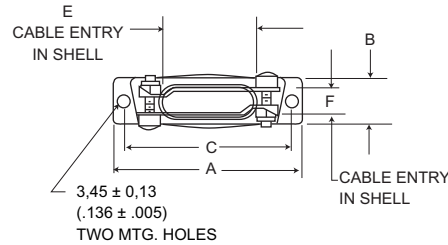
### Product Features

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



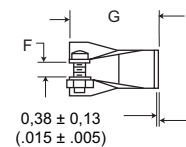
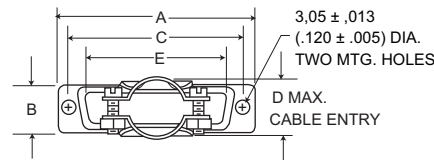
- Kit consists of 1 shell, 2 cable clamps, 2 screws, 2 hex nuts.

| Shell Size | RoHS Compliant Part Number | Mil-Spec Parts (Brass) |             | Brass                     |  |
|------------|----------------------------|------------------------|-------------|---------------------------|--|
|            |                            | Mil-Spec Part Number   | Part Number | 50 μ in. Gold over Copper |  |
| 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<br>±0.38 (.015) | B<br>±0.572 (.0225) | C<br>±0.38 (.015) | D<br>max.    | E<br>±0.38 (.015) | F<br>±0.38 (.015) | G<br>±0.38 (.015) | H<br>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 (.6005)      | 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 |  |
| 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<br>±0.38 (.015) | B<br>±0.572 (.0225) | C<br>±0.38 (.015) | D<br>max.    | E<br>±0.38 (.015) | F<br>±0.38 (.015) | G<br>±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.

Dimensions shown in mm (inch)

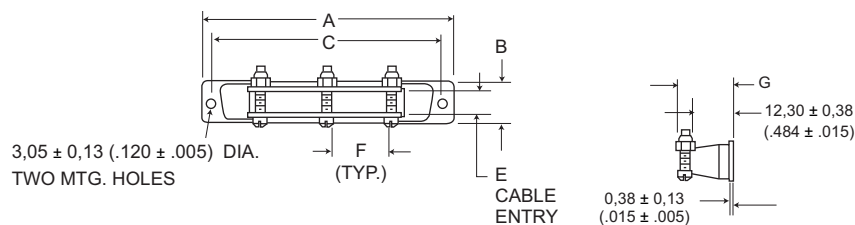
Specifications and dimensions subject to change

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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 50 µ in. Gold over Copper |
|------------|----------------------------|------------------------|-------------|---------------------------------|
|            |                            | Mil-Spec Part Number   | 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                     |

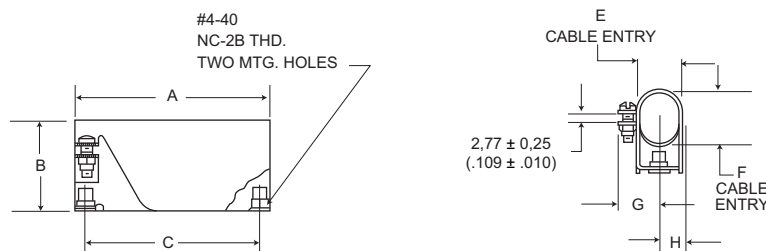
| Shell Size | Layout | Part Number | Mil Spec Part Number* | No. of Cable Locking Screws Included | A ±0,38 (.015) | B ±0,38 (.015) | C ±0,13 (.005) | E ±0,38 (.015) | F ±0,38 (.015) | G ±0,98 (.035) |
|------------|--------|-------------|-----------------------|--------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 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 50 µ in. Gold over Copper |
|------------|----------------------------|------------------------|-------------|---------------------------------|
|            |                            | Mil-Spec Part Number   | 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         | DD19977-71                 | M85049/50-10F          | DD19977-19  | DE19977-44                      |

| Shell Size | Layout | Part Number | Mil Spec Part Number* | A ±0,38 (.015) | B ±0,38 (.015) | C ±0,13 (.005) | E ±0,38 (.015) | F ±0,38 (.015) | G ±0,98 (.035) | 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) |

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

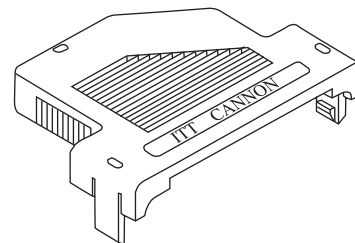
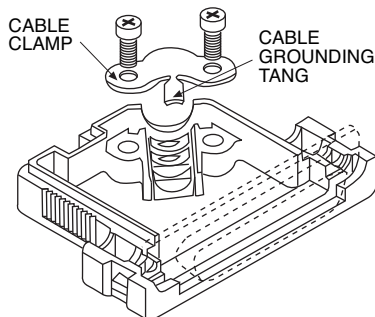


## Snap-Together Metalized Plastic

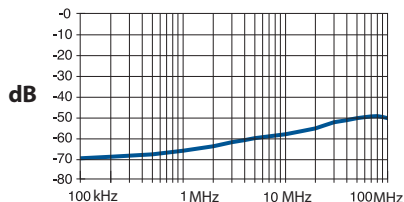
Metalized plastic backshells reduce EMI/RFI emissions. Metalized plastic provides a light weight solution. Includes integral strain relieving cable clamp.

### 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 |

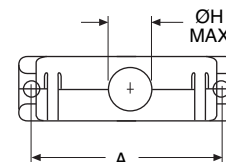
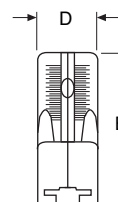
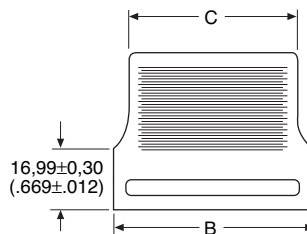
### Materials and Finishes

|           |                               |
|-----------|-------------------------------|
| 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 5

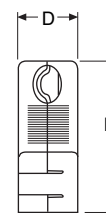
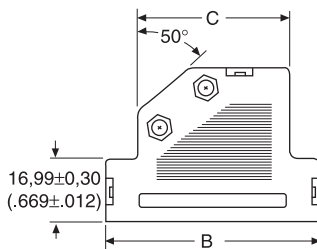


| Shell |        | Computer Cable |                   |                    | Ribbon Cable |                   | A             | B             | C             | D            | E             | ØH           |
|-------|--------|----------------|-------------------|--------------------|--------------|-------------------|---------------|---------------|---------------|--------------|---------------|--------------|
| Size  | Layout | Shielded       | Non-Shielded Gray | Non-Shielded Black | Shielded     | Non-Shielded Gray | ±0,15 (.006)  | ±0,30 (.012)  | ±0,30 (.012)  | ±0,30 (.120) | ±0,20 (.008)  | Max.         |
| 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 (.288A) |
| 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 |        | Shielded    | Non-Shielded | B             | C             | D            | E             | Cable Diameter |              |
|-------|--------|-------------|--------------|---------------|---------------|--------------|---------------|----------------|--------------|
| Size  | Layout | Part #      | Part # Gray  | ±0,30 (.012)  | ±0,30 (.012)  | ±0,30 (.012) | ±0,20 (.008)  | Min.           | Max.         |
| DE    | 9      | DE121073-54 | DE121073-59  | 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  | 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  | 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  | 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  | 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)

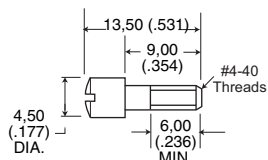
Specifications and dimensions subject to change

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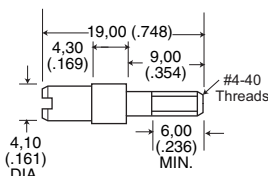


## Locking Hardware for Snap -Together EMI Shielded Backshell

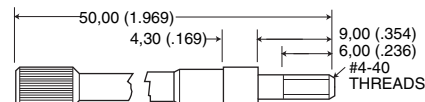
Recessed Jackscrew



Extended Jackscrew



Thumbscrew

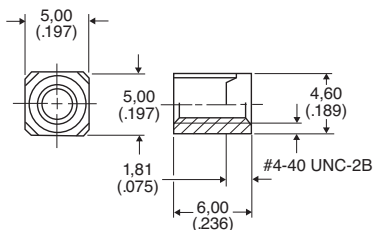


### Materials and Finishes

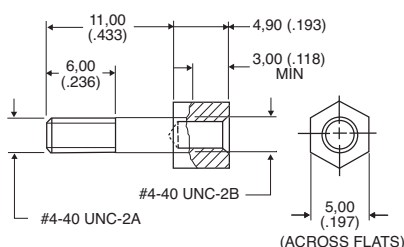
| Part Number                             | Material | Finish | Quantity Required per Connector | Type               |
|-----------------------------------------|----------|--------|---------------------------------|--------------------|
| 250-8501-004                            | Brass    | Nickel |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

## Jackpost for In-Line Connections

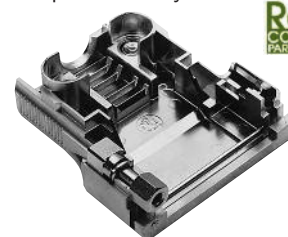
Rectangular Nut



Jackpost



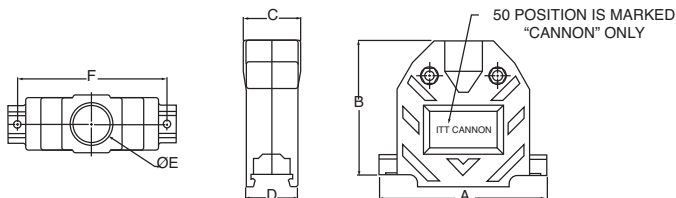
Jackpost Assembly



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 9              | 980-2000-350 | 30,91 (1.217) | 39,29 (1.547) | 16,26 (.640) | 16,26 (.640) | 10,16 (.400) | 24,99 (.984)  |
| DA 15             | 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 25             | 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 37             | 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 50             | 980-2000-354 | 67,18 (2.645) | 47,12 (1.855) | 23,88 (.940) | 19,56 (.770) | 18,44 (.726) | 61,11 (2.406) |

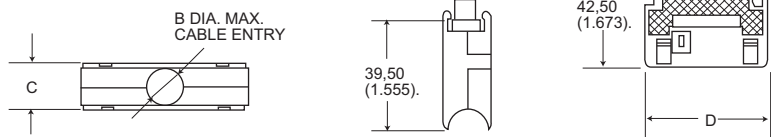
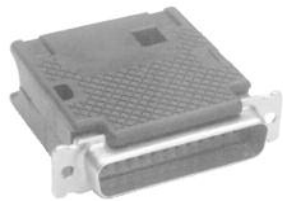
Materials and Finishes: Thermoplastic, UL 94V-0 rated, Nickel plated



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.

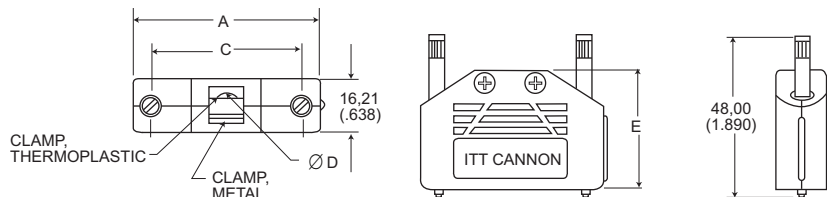
Materials and Finishes

|           |                                        |
|-----------|----------------------------------------|
| Material: | Black Thermoplastic,<br>UL 94V-0 rated |
|-----------|----------------------------------------|

| 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

One-Piece Snap-Together



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

Materials and Finishes

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

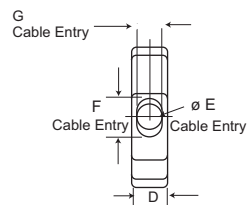
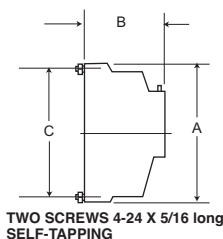
| Shell Size | Layout | Part Number | A             | C             | ø D max.    | E             |
|------------|--------|-------------|---------------|---------------|-------------|---------------|
| DE         | 9      | DEBS-9      | 35,20 (1.386) | 24,99 (.984)  | 5,69 (.224) | 27,51 (1.083) |
| 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)  |

## 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

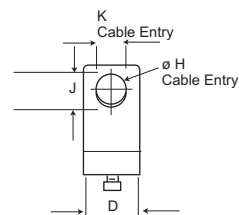
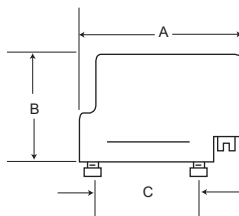
|                    |                                     |
|--------------------|-------------------------------------|
| Material:          | Black Thermoplastic, UL 94V-0 rated |
| Hardware Material: | Steel                               |
| Hardware Finish:   | Chromate over Zinc               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

| Shell Size | Part Layout | Part 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                  |

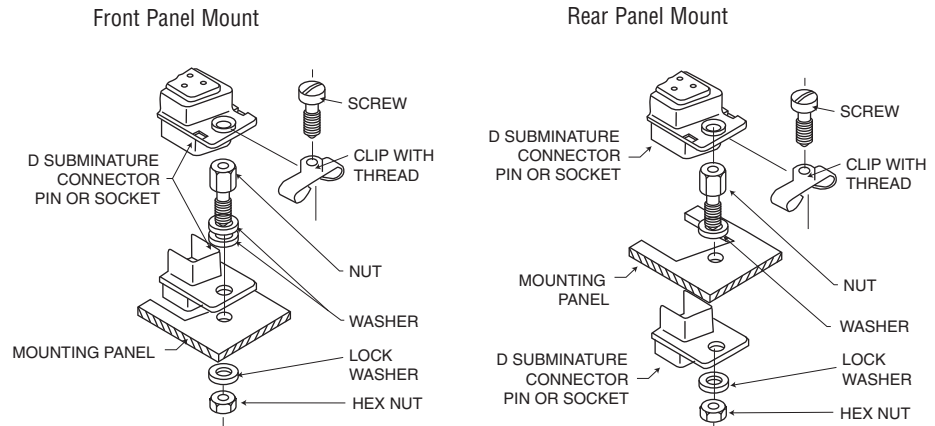
| Shell Size | Part Layout | Part Number | A             | B             | C             | D            | øH          | J            | K            |
|------------|-------------|-------------|---------------|---------------|---------------|--------------|-------------|--------------|--------------|
| 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) |

## 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

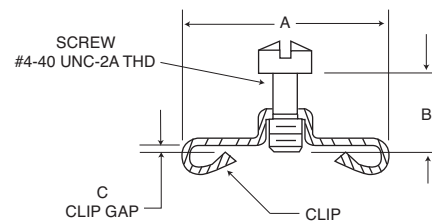
- Ensures positive mating
- Provides locking and latching for high vibration applications



## 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 |

| Shell Size     | each P/N   | 2 each P/N | A<br>±0,38 (.15) | B<br>±0,2 (.010) | C<br>±0,13 (.005) | RoHS Compliant P/N each | RoHS Compliant P/N 2 each |
|----------------|------------|------------|------------------|------------------|-------------------|-------------------------|---------------------------|
| 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

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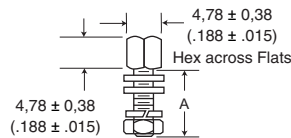
## Female Screw Lock



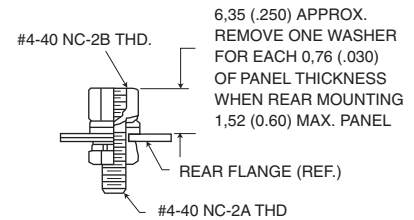
- Kit consists of 1 nut, 3 washer, 1 lock washer, 1 hex nut.
- Order 2 per connector.

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

Front Panel Mount



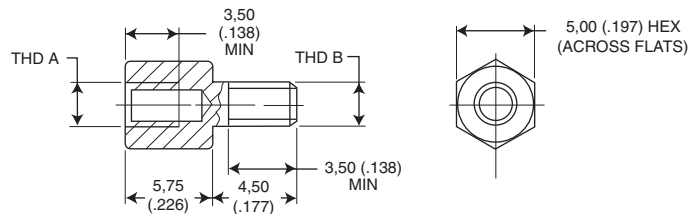
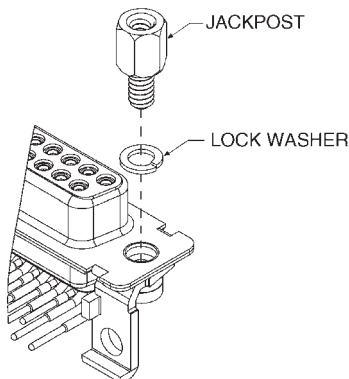
Rear Panel Mount



NOTE: (1) A 6 inch/pound (female) and 4 inch/pound (male) maximum torque during assembly is recommended on steel screw lock assemblies. (2) A third flat washer is supplied for front panel mounting of tab shell connectors.

| Yellow Chromate Over Cadmium each | Chromate Over Zinc Kit of 2 each | RoHS Compliant Part Number | A ± 0,38 (.015) | Mil-Spec Part Number |
|-----------------------------------|----------------------------------|----------------------------|-----------------|----------------------|
| D20418-2                          | D20418-82                        | D20418-128                 | 7,92 (.312)     | M24308/26-1F         |
| D20418-50                         | D20418-131                       | -                          | 12,70 (.500)    | -                    |
| D20418-39                         | D20418-83                        | D20418-129                 | 15,88 (.625)    | M24308/26-2F         |
| D20418-74                         | D20418-132                       | -                          | 19,05 (.750)    | -                    |

## Screw Locks for Connectors with Integral Threaded Inserts



| Part Number | Thread Type   |               |
|-------------|---------------|---------------|
|             | THD A         | THD B         |
| 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

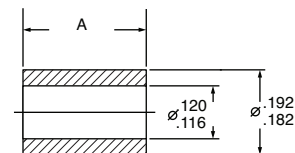
- Kit consists of 1 jackpost, 1 lock washer.
- Order 2 per connector.

## 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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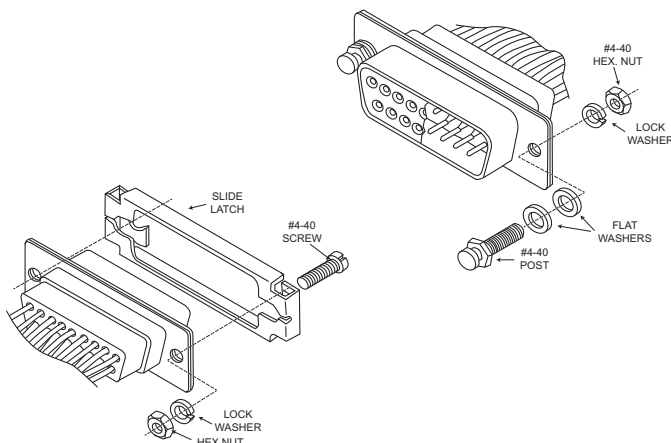


## Screw Lock Assemblies

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

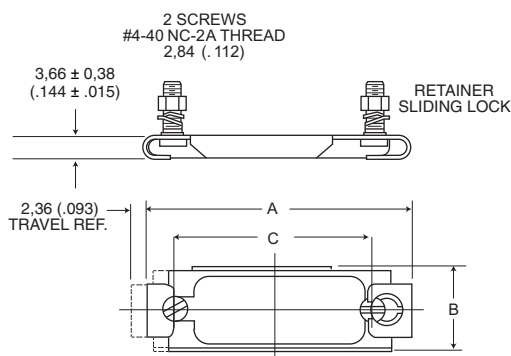
- Ensures positive mating
- Provides locking and latching for high vibration applications



## 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



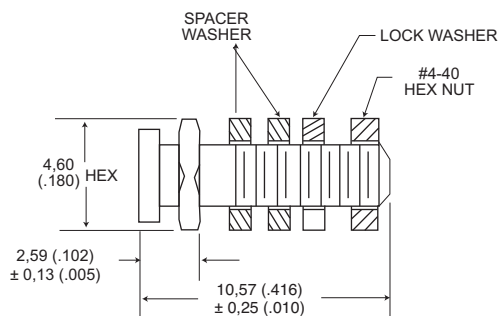
| Descriptions       | Material        | Finish/<br>Treatment |
|--------------------|-----------------|----------------------|
| Sliding Lock Plate | Stainless Steel | Passivated           |
| Screw, Mounting    | Steel           | Trivalent            |
| Washer Lock        | Steel           | Chromate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

| Shell Size | Layout | Part Number | A<br>± 0,38 (.015) | B<br>± 0,38 (.015) | C<br>± 0,13 (.005) |
|------------|--------|-------------|--------------------|--------------------|--------------------|
| 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.<sup>1</sup>
- Order 2 per connector.<sup>2</sup>



NOTE: When rear-mounting connector to a 1/16" panel, delete the second spacer washer.

|              | Each <sup>1,2</sup> | Kit of 2 each |                                               |
|--------------|---------------------|---------------|-----------------------------------------------|
| Part Number: | D53018              | D53018-11     | Material: Steel, Finish: Chromate/Zinc        |
|              | D53018-14           | D53018-20     | Material: Stainless Steel, Finish: Passivated |

## 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

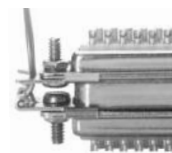
### Materials and Finishes

|            |                 |
|------------|-----------------|
| Material:  | Stainless Steel |
| Treatment: | Passivated      |

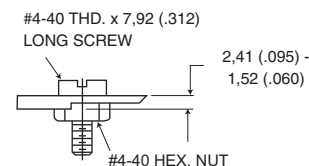
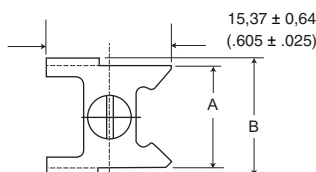
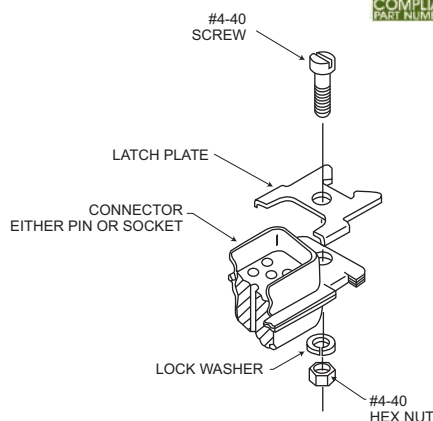
Unlocked



Locked



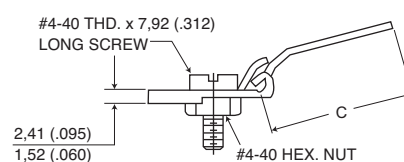
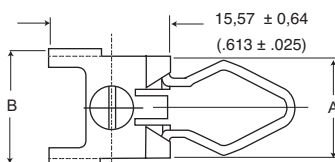
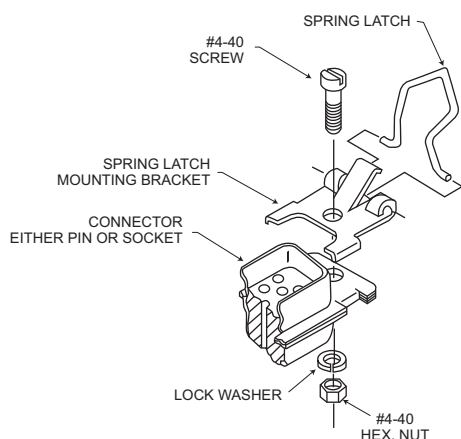
## Spring Latch Plate Assembly



| Shell Size     | Layout       | Part Number | A<br>± 0,38 (.015) | B<br>± 0,38 (.015) | Part Number<br>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<br>± 0,38 (.015) | B<br>± 0,38 (.015) | C<br>± 0,51 (.020) | Part Number<br>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

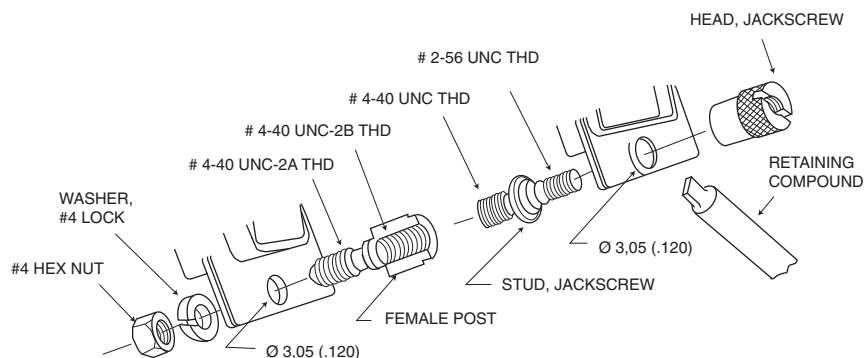
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## Jackscrew/Jackpost Assemblies

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

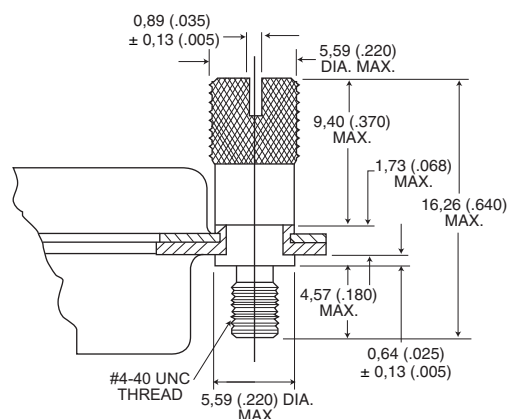


### Jackscrew Assembly



- 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      |

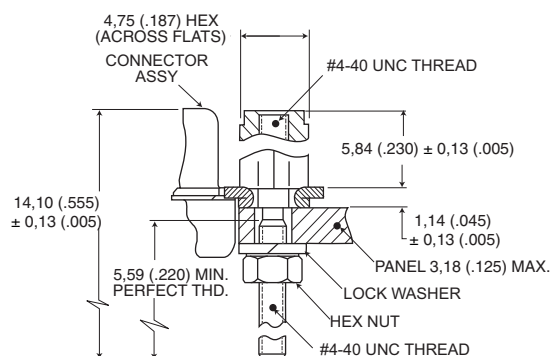


### Jackpost Assembly



- 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.

## 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.

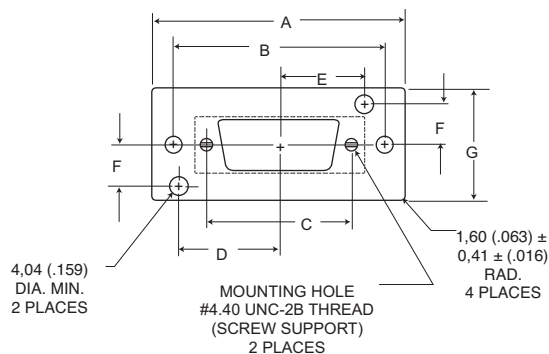
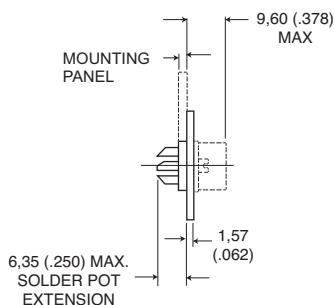
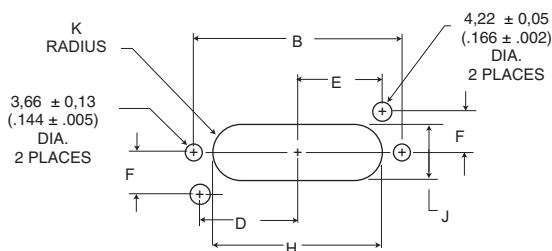


Plate and Hardware Material: Steel

Plate and Hardware Finish: Chromate over Zinc

| Shell Size | Layout | Part Number | A<br>±0,41 (.016) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,13 (.005) | F<br>±0,13 (.005) | G<br>±0,41 (.016) | H<br>±0,41 (.016) | J<br>±0,41 (.016) | K<br>±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



## Guide Pin Plate

Male

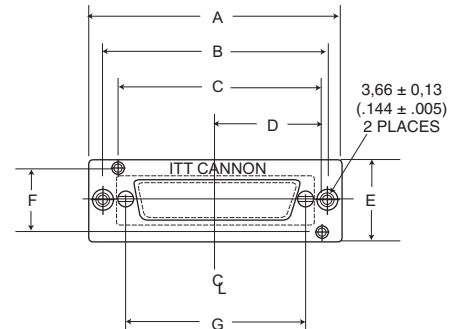
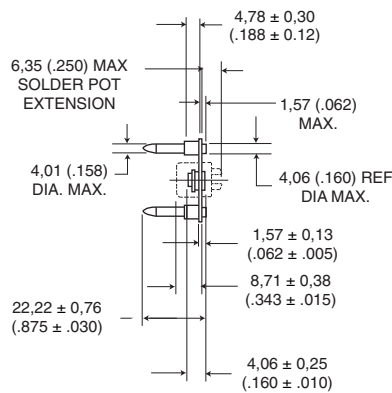


- Useful in blind mate applications.
- Kit consists of 1 plate, 2 semi screws, 2 rivets, 2 guide pins, 2 washer
- Guide pin inserts for Size 8 cavities for Combo D® connectors also available. Refer to Combo D Catalog.

Plate and Hardware Material: Steel

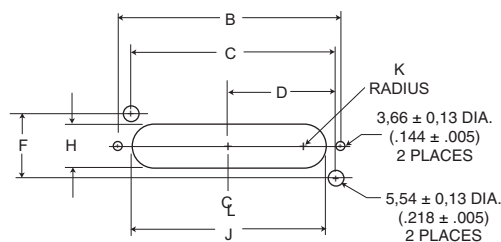
Plate and Hardware Finish: Chromate over Zinc

Guide Pin Material: Stainless Steel



| Shell Size | Layout | Part Number | A<br>±0,41 (.016) | B<br>±0,13 (.005) | C<br>±0,13 (.005) | D<br>±0,13 (.005) | E<br>±0,13 (.005) | F<br>±0,13 (.005) | G<br>±0,41 (.016) | H<br>±0,41 (.016) | J<br>±0,41 (.016) | K<br>±0,41 (.016) |
|------------|--------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| DE         | 9      | DE111919    | 49,61 (1.953)     | 40,08 (1.578)     | 33,91 (1.335)     | 18,65 (.734)      | 25,40 (1.000)     | 19,05 (.750)      | 25,00 (.984)      | 12,29 (.484)      | 30,58 (1.204)     | 6,15 (.242)       |
| DA         | 15     | DA22213     | 57,96 (2.282)     | 48,41 (1.906)     | 42,24 (1.663)     | 22,81 (.898)      | 25,40 (1.000)     | 19,05 (.750)      | 33,32 (1.312)     | 12,29 (.484)      | 38,89 (1.531)     | 6,15 (.242)       |
| DB         | 25     | DB22255     | 71,63 (2.820)     | 62,13 (2.446)     | 55,96 (2.203)     | 29,67 (1.168)     | 25,40 (1.000)     | 19,05 (.750)      | 47,04 (1.852)     | 12,29 (.484)      | 51,99 (2.047)     | 6,15 (.242)       |
| DC         | 37     | DC22070     | 88,11 (3.469)     | 78,59 (3.094)     | 72,42 (2.851)     | 37,90 (1.492)     | 25,40 (1.000)     | 19,05 (.750)      | 63,50 (2.500)     | 12,29 (.484)      | 68,25 (2.687)     | 6,15 (.242)       |
| DD         | 50     | DD21962     | 85,72 (3.375)     | 76,20 (3.000)     | 69,82 (2.749)     | 36,50 (1.437)     | 28,58 (1.125)     | 22,20 (.874)      | 61,11 (2.406)     | 15,06 (.593)      | 66,93 (2.635)     | 7,52 (.296)       |

## Recommended Panel Cutout



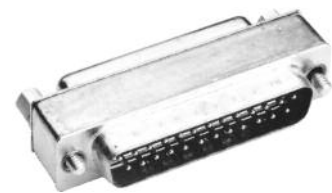
Dimensions shown in mm (inch)

Specifications and dimensions subject to change

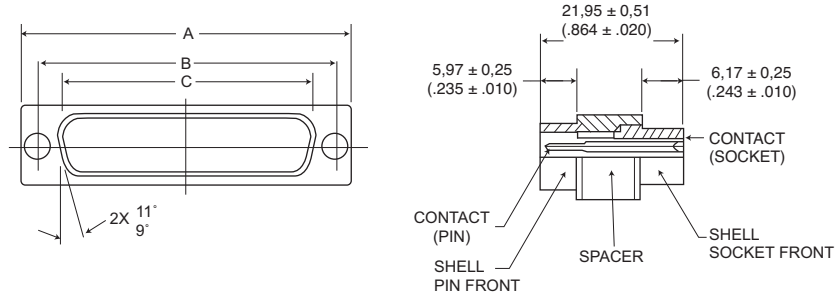
[www.ittcannon.com](http://www.ittcannon.com)



High Reliability Connector Saver



Engaging Face, Pin Side



NOTE: Hardware removed for clarity.

| Shell Size | Layout | Part Number | A<br>± 0,40 (.015) | B<br>± 0,25 (.010) | C<br>± 0,25 (.010) |
|------------|--------|-------------|--------------------|--------------------|--------------------|
| DE         | 9      | DEBMAM9PS   | 30,81 (1.213)      | 24,99 (.984)       | 16,92 (.666)       |
| DA         | 15     | DABMAM15PS  | 39,14 (1.541)      | 33,32 (1.312)      | 25,25 (.994)       |
| DB         | 50     | DBBMAM25PS  | 53,04 (2.088)      | 47,04 (1.852)      | 38,96 (1.534)      |
| DC         | 37     | DCBMAM37PS  | 69,32 (2.729)      | 63,50 (2.500)      | 55,42 (2.182)      |
| DD         | 50     | DDBMAM50PS  | 66,93 (2.635)      | 61,11 (2.406)      | 52,81 (2.079)      |

Specifications

|                                                       |
|-------------------------------------------------------|
| Temperature: -55° C to 105° C                         |
| Current Rating: 7 A                                   |
| Dielectric withstanding Voltage: 500 VAC at Sea Level |

Materials and Finishes

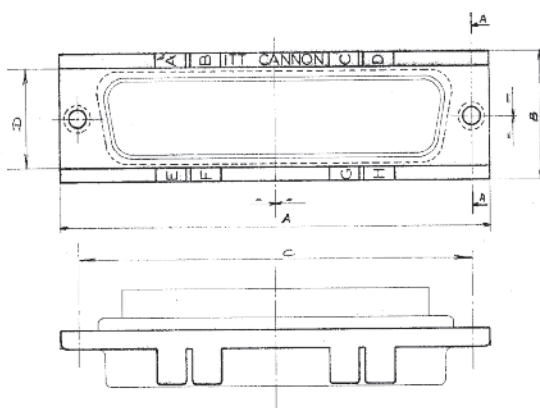
| Description      | Material                      | Finish                    |
|------------------|-------------------------------|---------------------------|
| Shells           | Steel                         | Yellow Chromate over Zinc |
| Insulator        | White Thermoplastic, UL 94V-0 | —                         |
| Contacts         | Copper Alloy                  | Gold Over Copper          |
| Locking Hardware | Stainless Steel               | Passivated                |



## Polarizing Plates

**Material:** Black plastic, 94-V-0 rated

| Part Number by Shell Size | A            | B          |
|---------------------------|--------------|------------|
| DE 115398                 | 1.208 (30.7) | 0.629 (16) |
| DA 115398-1               | 1.535 (39.0) | 0.629 (16) |
| DB 115398-2               | 2.082 (52.9) | 0.629 (16) |
| DC 115398-3               | 2.726 (69.2) | 0.629 (16) |
| DD 115398-3               | 2.630 (66.8) | 0.749 (19) |



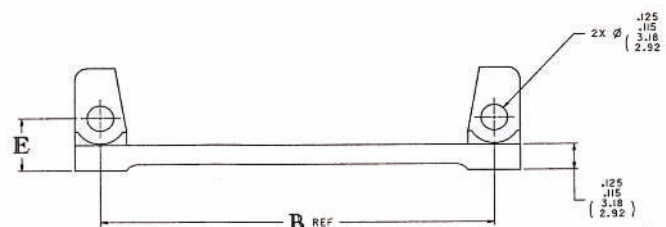
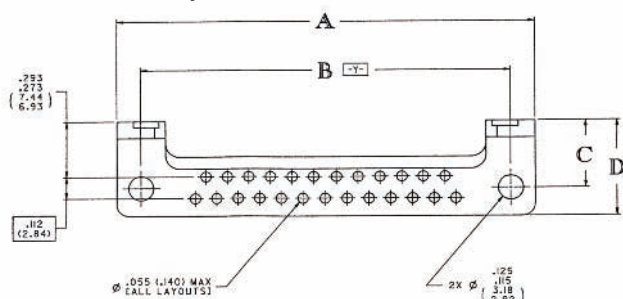
### Polarizing Scheme

| Polarizing Keys | A | B | C | D | E | F | G | H |
|-----------------|---|---|---|---|---|---|---|---|
| Position 1      | ○ | × | × | ○ | ○ | × | × | ○ |
| 2               | × | ○ | ○ | × | × | ○ | ○ | × |
| 3               |   |   | × | × | × | × |   |   |
| 4               | × | × |   |   |   |   | × | × |
| 5               | × | × |   |   | × | × |   |   |
| 6               |   |   | × | × |   |   | × | × |
| 7               | × |   | × |   |   | × |   | × |
| 8               |   | × | × | × | × |   | × |   |
| 9               | × |   | × | × | × | × | × |   |
| 10              |   | × |   | × |   | × | × | × |

○ Cut Key on pin connector    × Cut Key on socket connector

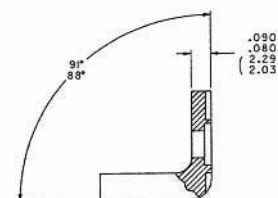
## Right Angle Brackets (Used with 90° Printed Circuit Connector D\*M, D\*, D\*C, D\*U)

**Material:** Black Polyester, UL-94V-0 Rated



### D\*/D\*M

| Shell Size | Part Number  | A<br>± .015  | B<br>± .005  | C<br>± .010 | D<br>± .010 | E<br>± .010 | F<br>± .010 |
|------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|
| DE         | 015-0338-000 | 1.224 (31.1) | .984 (24.0)  | .340 (8.63) | .484 (12.3) | 24.7 (6.27) | .283 (7.2)  |
| DA         | 015-0339-000 | 1.552 (39.4) | 1.312 (33.3) | .340 (8.63) | .484 (12.3) | 24.7 (6.27) | .283 (7.2)  |
| DB         | 015-0340-000 | 2.092 (53.1) | 1.852 (47.0) | .340 (8.63) | .484 (12.3) | 24.7 (6.27) | .283 (7.2)  |
| DC         | 015-0341-000 | 2.740 (69.0) | 2.500 (63.5) | .340 (8.63) | .484 (12.3) | 24.7 (6.27) | .283 (7.2)  |
| DD         | 015-0342-000 | 2.646 (67.2) | 2.406 (61.1) | .395 (10.0) | .594 (15.1) | .302 (7.67) | .283 (7.2)  |



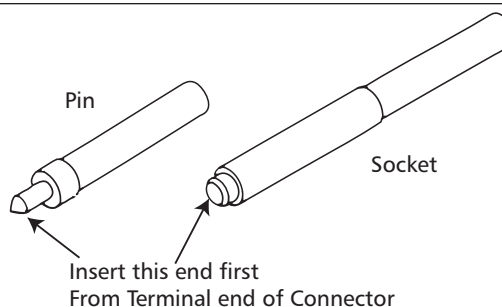
### D\*C/D\*U

| Shell Size | Part Number  | A<br>± .015  | B<br>± .005  | C<br>± .010 | D<br>± .010 | E<br>± .010 | F<br>± .010 |
|------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|
| DE         | 015-0348-000 | 1.224 (31.1) | .984 (24.0)  | .340 (8.63) | .484 (12.3) | 24.7 (6.27) | .283 (7.2)  |
| DA         | 015-0349-000 | 1.552 (39.4) | 1.312 (33.3) | .340 (8.63) | .484 (12.3) | 24.7 (6.27) | .283 (7.2)  |
| DB         | 015-0350-000 | 2.092 (53.1) | 1.852 (47.0) | .340 (8.63) | .484 (12.3) | 24.7 (6.27) | .283 (7.2)  |
| DC         | 015-0351-000 | 2.740 (69.0) | 2.500 (63.5) | .340 (8.63) | .484 (12.3) | 24.7 (6.27) | .283 (7.2)  |
| DD         | 015-0352-000 | 2.646 (67.2) | 2.406 (61.1) | .395 (10.0) | .594 (15.1) | .302 (7.67) | .283 (7.2)  |

## Wire Hole Fillers (D\*MA Series Only)

**Material:** Nylon

| Part Number | Insert Type |
|-------------|-------------|
| DMA 51236-1 | Socket      |
| DMA 51235-1 | Pin         |



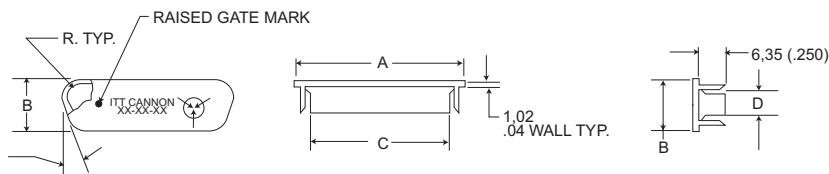
Dimensions shown in mm (inch)  
Specifications and dimensions subject to change

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## Dust Cap



Dust caps provide protection from moisture and dust for unused I/O ports.

NOTE: C dim. applies at point of maximum Integral interface length. Drawing shown for Black Anti-static caps. Dimensions shown are reference only.

### Product Features

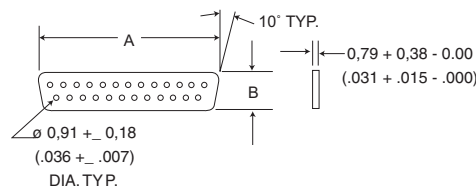
- Conductive Dust Caps provide a surface resistivity of at least  $1 \times 10^9$  ohms/sq
- Dust Caps meet the static decay test requirements of MIL-B- 81705C, Type II.
- Dust Caps have an integral flange for easy application and removal

### Materials and Finishes

Material: Polyethylene

| Black Antistatic | Red Caps   | I.D.   | A             | B            | C             | D            |
|------------------|------------|--------|---------------|--------------|---------------|--------------|
| DE-59-20BA       | DE-59-20RC | Socket | 20,32 (.800)  | 11,43 (.450) | 16,36 (.644)  | 7,59 (2.99)  |
| DA-59-20BA       | DA-59-20RC | Socket | 28,45 (1.120) | 11,68 (.460) | 24,59 (.968)  | 7,62 (.300)  |
| DB-59-20BA       | DB-59-20RC | Socket | 42,42 (1.670) | 11,68 (.460) | 38,25 (1.506) | 7,49 (.295)  |
| DC-59-20BA       | DC-59-20RC | Socket | 58,93 (2.320) | 11,68 (.460) | 54,81 (2.158) | 7,37 (.290)  |
| DD-59-20BA       | DD-59-20RC | Socket | 56,90 (2.240) | 14,48 (.570) | 53,11 (2.091) | 10,41 (.410) |
| DE-60-20BA       | DE-60-20RC | Pin    | 21,84 (.860)  | 12,95 (5.10) | 17,78 (.700)  | 8,92 (.351)  |
| DA-60-20BA       | DA-60-20RC | Pin    | 30,48 (1.200) | 12,95 (.510) | 26,52 (1.044) | 9,02 (.355)  |
| DB-60-20BA       | DB-60-20RC | Pin    | 44,20 (1.740) | 13,46 (.530) | 39,60 (1.559) | 9,09 (.358)  |
| DC-60-20BA       | DC-60-20RC | Pin    | 60,71 (2.390) | 13,46 (.530) | 56,90 (2.240) | 9,37 (.369)  |
| DD-60-20BA       | DD-60-20RC | Pin    | 58,17 (2.290) | 16,00 (.630) | 54,28 (2.137) | 12,04 (.474) |

## Interfacial Seal



Interfacial seals provide moisture resistance at the mating interface.

### Product Features

- Other Interfacial Seals in the Combo D® layouts are available upon request.

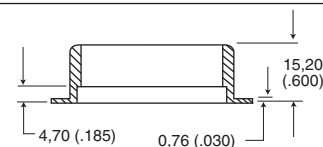
Material: Silastic Sheet

| Shell Size | Layout | Part Number  | A             | B            |
|------------|--------|--------------|---------------|--------------|
| DE         | 9      | DE53750      | 16,66 (.656)  | 8,41 (.331)  |
| DA         | 15     | DA53750-1    | 24,99 (.984)  | 8,41 (.331)  |
| DB         | 25     | DB53750-2    | 38,88 (1.531) | 8,41 (.331)  |
| DC         | 37     | DC53750-3    | 55,14 (2.171) | 8,41 (.331)  |
| DD         | 50     | DD53750-4    | 52,78 (2.078) | 11,10 (.437) |
| DC         | 21WA4  | 075-0354-003 | 55,14 (2.171) | 8,41 (.331)  |
| DE         | 15     | 273-0333-000 | 16,66 (.656)  | 8,41 (.331)  |
| DA         | 26     | 273-0334-000 | 24,99 (.984)  | 8,41 (.331)  |
| DB         | 44     | 273-0335-000 | 38,88 (1.531) | 8,41 (.331)  |
| DC         | 62     | 273-0336-000 | 55,14 (2.171) | 8,41 (.331)  |
| DD         | 78     | 273-0337-000 | 52,78 (2.078) | 11,10 (.437) |

## Potting Shell



3,25 (.128) DIA.



Potting shells are molded with a thin flange 0,76 (.030) to permit the use of D Subminiature locking devices.

### Materials and Finishes

Material: Nylon  
Color: Natural (white)

| Shell Size | Layout | Part Number |
|------------|--------|-------------|
| DE         | 9      | DE50904-1   |
| DA         | 15     | DA50905-1   |
| DB         | 25     | DB50906-1   |
| DC         | 37     | DC50907-1   |
| DD         | 50     | DD50908-1   |



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

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# Cannon D-Subminiature Accessories

# Index

| Standard Part # | RoHS Part # | Page # | Standard Part # | RoHS Part # | Page # | Standard Part # | RoHS Part # | Page # |
|-----------------|-------------|--------|-----------------|-------------|--------|-----------------|-------------|--------|
| 075-0354-003    | Same        | 22     | DA51210         | Same        | 12     | DCBMA37PS       | Same        | 20     |
| 250-8501-004    | Same        | 10     | DA51211         | Same        | 12     | DCBS-37         | Same        | 11     |
| 250-8501-009    | Same        | 10     | DA51220-1       | Same        | 15     | DCFME-100       | Same        | 6      |
| 250-8501-010    | Same        | 10     | DA53750-1       | Same        | 22     | DCFMX-101       | Same        | 5      |
| 250-8501-013    | Same        | 10     | DA-59-20RC      | Same        | 22     | DD115339-24     | Same        | 11     |
| 273-0333-000    | Same        | 22     | DA59-20BA       | Same        | 22     | DD121073-53     | Same        | 9      |
| 273-0334-000    | Same        | 22     | DA-60-20RC      | Same        | 22     | DD121073-58     | Same        | 9      |
| 273-0335-000    | Same        | 22     | DA-60-20BA      | Same        | 22     | DD121073-153    | Same        | 9      |
| 273-0336-000    | Same        | 22     | DABMA15PS       | Same        | 20     | DD121073-258    | Same        | 9      |
| 273-0337-000    | Same        | 22     | DAFME-100       | Same        | 6      | DD19678-4       | DD19678-214 | 8      |
| 980-2000-345    | Same        | 4      | DAFMX-101       | Same        | 5      | DD19678-55      | DD19678-214 | 8      |
| 980-2000-346    | Same        | 4      | DABS-15         | Same        | 11     | DD19977-4       | DD19977-71  | 8      |
| 980-2000-347    | Same        | 4      | DB115339-22     | Same        | 11     | DD19977-19      | DD19977-71  | 8      |
| 980-2000-348    | Same        | 4      | DB121073-51     | Same        | 9      | DD20964         | DD20964-32  | 7      |
| 980-2000-349    | Same        | 4      | DB121073-56     | Same        | 9      | DD21961         | Same        | 18     |
| 980-2000-350    | Same        | 10     | DB121073-151    | Same        | 9      | DD21962         | Same        | 19     |
| 980-2000-351    | Same        | 10     | DB121073-256    | Same        | 9      | DD24661         | DD24661-27  | 7      |
| 980-2000-352    | Same        | 10     | DB19678-2       | DB19678-213 | 8      | DD24661-27      | Same        | 7      |
| 980-2000-353    | Same        | 10     | DB19678-53      | DB19678-213 | 8      | DD50908-1       | Same        | 22     |
| 980-2000-354    | Same        | 10     | DB19977-2       | DB19977-69  | 8      | DD51216         | Same        | 12     |
| D110277         | Same        | 16     | DB19977-17      | DB19977-69  | 8      | DD51217         | Same        | 12     |
| D110278         | Same        | 16     | DB20962         | DB20962-30  | 7      | DD51223-1       | Same        | 15     |
| D110279         | Same        | 16     | DB22254         | Same        | 18     | DD53750-4       | Same        | 22     |
| D110280         | Same        | 16     | DB22255         | Same        | 19     | DD-59-20RC      | Same        | 22     |
| D110550         | Same        | 17     | DB24659         | DB24659-27  | 7      | DD-59-20BA      | Same        | 22     |
| D110551         | Same        | 17     | DB50906-1       | Same        | 22     | DD-60-20RC      | Same        | 22     |
| D112041         |             | 14     | DB51212         | Same        | 12     | DD-60-20BA      | Same        | 22     |
| D121073-19      | Same        | 5      | DB51213         | Same        | 12     | DDBMA50PS       | Same        | 20     |
| D121073-39      | Same        | 14     | DB51221-1       | Same        | 15     | DDBS-50         | Same        | 11     |
| D121073-42      | Same        | 14     | DB53750-2       | Same        | 22     | DDFME-100       | Same        | 6      |
| D20418-2        | D20418-134  | 14     | DB-59-20RC      | Same        | 22     | DE111919        | Same        | 19     |
| D20418-39       | D20418-136  | 14     | DB59-20BA       | Same        | 22     | DE111920        | Same        | 18     |
| D20418-50       | D20418-135  | 14     | DB-60-20RC      | Same        | 22     | DE115339-20     | Same        | 11     |
| D20418-74       | D20418-137  | 14     | DB-60-20BA      | Same        | 22     | DE121073-54     | Same        | 9      |
| D20419          | D20419-211  | 13     | DBBMA25PS       | Same        | 20     | DE121073-59     | Same        | 9      |
| D20419-104      | D20419-214  | 13     | DBBS-25         | Same        | 11     | DE121073-154    | Same        | 9      |
| D20419-18       | D20419-212  | 13     | DBFME-100       | Same        | 6      | DE121073-259    | Same        | 9      |
| D20419-21       | D20419-213  | 13     | DBFMX-101       | Same        | 5      | DE19977-5       | DE19977-72  | 8      |
| D20420          | D20420-157  | 13     | DC115339-23     | Same        | 11     | DE19977-20      | DE19977-72  | 8      |
| D20420-13       | D20420-158  | 13     | DC121073-52     | Same        | 9      | DE24657         | DE24657-29  | 7      |
| D20420-15       | D20420-159  | 13     | DC121073-57     | Same        | 9      | DE44994         | DE44994-14  | 7      |
| D20420-86       | D20420-160  | 13     | DC121073-152    | Same        | 9      | DE50904-1       | Same        | 22     |
| D53018          | Same        | 15     | DC121073-257    | Same        | 9      | DE51218         | Same        | 12     |
| D53018-11       | Same        | 15     | DC19678-3       | DC19678-214 | 8      | DE51219         | Same        | 12     |
| D53018-14       | Same        | 15     | DC19678-85      | DC19678-214 | 8      | DE51224-1       | Same        | 15     |
| D53018-20       | Same        | 15     | DC19977-3       | DC19977-70  | 8      | DE53750         | Same        | 22     |
| DA115339-21     | Same        | 11     | DC19977-18      | DC19977-70  | 8      | DE-59-20RC      | Same        | 22     |
| DA121073-50     | Same        | 9      | DC20963         | DC20963-27  | 7      | DE-59-20BA      | Same        | 22     |
| DA121073-55     | Same        | 9      | DC22070         | Same        | 19     | DE-60-20RC      | Same        | 22     |
| DA121073-150    | Same        | 9      | DC22071         | Same        | 18     | DE-60-20BA      | Same        | 22     |
| DA121073-259    | Same        | 9      | DC24660         | DC24660-27  | 7      | DEBMA9PS        | Same        | 20     |
| DA19678-1       | DA19678-212 | 8      | DC50907-1       | Same        | 22     | DEBS-9          | Same        | 11     |
| DA19678-38      | DA19678-212 | 8      | DC51214         | Same        | 12     | DEFME-100       | Same        | 6      |
| DA19977-1       | DA19977-68  | 8      | DC51215         | Same        | 12     | DEFMX-101       | Same        | 5      |
| DA19977-6       | DA19977-68  | 8      | DC51222-1       | Same        | 15     |                 |             |        |
| DA20961         | DA20961-26  | 7      | DC53750-3       | Same        | 22     |                 |             |        |
| DA22213         | Same        | 19     | DC-59-20RC      | Same        | 22     |                 |             |        |
| DA22214         | Same        | 18     | DC-59-20BA      | Same        | 22     |                 |             |        |
| DA24658         | DA24658-28  | 7      | DC-60-20RC      | Same        | 22     |                 |             |        |
| DA50905-1       | Same        | 22     | DC-60-20BA      | Same        | 22     |                 |             |        |

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

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# Product Safety and Warranty

## 1. MATERIAL CONTENT AND PHYSICAL FORM

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

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

b) Rugged, Fire Barrier and High Reliability types with metal casings and either natural rubber, synthetic rubber, plastic or glass insulating materials. Contact materials vary with type of connector and also application and are usually manufactured from either: Copper, copper alloys, nickel, alumel, chromel or steel. In special applications, other alloys may be specified.

## 2. FIRE CHARACTERISTICS AND ELECTRIC SHOCK HAZARD

**There is no fire hazard when the connector is correctly wired and used within the specified parameters. Incorrect wiring or assembly of the connector or careless use of metal tools or conductive fluids, or transit damage to any of the component parts may cause electric shock or burns. Live circuits must not be broken by separating mated connectors as this may cause arcing, ionization and burning.** Heat dissipation is greater at maximum resistance in a circuit. Hot spots may occur when resistance is raised locally by damage, e.g. cracked or deformed contacts, broken strands of wire. Local overheating may also result from the use of the incorrect application tools or from poor quality soldering or slack screw terminals. Overheating may occur if the ratings in the product Data Sheet/Catalog are exceeded and can cause breakdown of insulation and hence electric shock. If heating is allowed to continue it intensifies by further increasing the local resistance through loss of temper of spring contacts, formation of oxide film on contacts and wires and leakage currents through carbonization of insulation and tracking paths. Fire can then result in the presence of combustible materials and this may release noxious fumes. Overheating may not be visually apparent. Burns may result from touching overheated components.

## 3. HANDLING

Care must be taken to avoid damage to any component parts of electrical connectors during installation and use. Although there are normally no sharp edges, care must be taken when handling certain components to avoid injury to fingers. Electrical connectors may be damaged in transit to the customers, and damage may result in creation of hazards. Products should therefore be examined prior to installation/use and rejected if found to be damaged.

## 4. DISPOSAL

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

## 5. APPLICATION

Connectors with exposed contacts should not be selected for use on the current supply side of an electrical circuit, because an electric shock could result from touching exposed contacts on an unmated connector. Voltages in excess of 30 V ac or 42.5 V dc are potentially hazardous and care should be taken to ensure that such voltages cannot be transmitted in any way to exposed metal parts of the connector body. The connector and wiring should be checked, before making live, to have no damage to metal parts or insulators, no solder blobs, loose strands, conducting lubricants, swarf, or any other undesired conducting particles. Circuit resistance and continuity check should be made to make certain that there are no high resistance joints or spurious conducting paths. Always use the correct application tools as specified in the Data Sheet/Catalog. Do not permit untrained personnel to wire, assemble or tamper with connectors. For operation voltage please see appropriate national regulations.

## IMPORTANT GENERAL INFORMATION

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

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

### (ii) Temperature

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

### (iii) Other important information

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

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## Circular/Filter/Hermetic/Fiber Optic Connectors

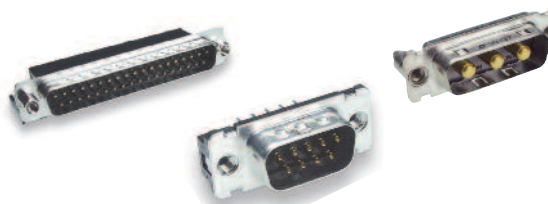
As a world leader in circular, filter, and hermetic connectors, ITT can leverage its design and manufacturing expertise to fit virtually any application. Our expertise includes fast positive mating for a wide range of military applications, as well as numerous sizes and contact configurations for various harsh environments. Our wide variety of fiber optic products include hybrid contacts, multi-channel, rack and panel, and hi-rel assemblies, including MIL and ARINC standard solutions. ITT can meet numerous specs, including NATO and MIL standards.



[www.ittcannon.com/circulars](http://www.ittcannon.com/circulars) • [www.ittcannon.com/filter](http://www.ittcannon.com/filter) • [www.ittcannon.com/hermetics](http://www.ittcannon.com/hermetics) • [www.ittcannon.com/fiberoptics](http://www.ittcannon.com/fiberoptics)

## D-Subminiature Connectors

Cannon invented D-sub connectors in 1952. Our family of D-Subs now includes combinations of signal, power and RF, as well as severe service sealed connectors. Cannon D-Subs are available with an extensive line of backshells and accessories and are one of the most economical shielded connector solutions available. ITT D-Sub connectors are qualified to the MIL-DTL-24308 specification.



[www.ittcannon.com/dsubs](http://www.ittcannon.com/dsubs)

## Microminiature Connectors

Developed first by Cannon in the 1960's, Interconnect Solutions microminiature connectors offer high performance and reliability with exceptional versatility. Available in rectangular, circular, and strip configurations for countless applications, many of our connectors meet or exceed applicable requirements of the MIL-DTL-83513 specification.



[www.ittcannon.com/micro](http://www.ittcannon.com/micro)

## Rack and Panel Connectors

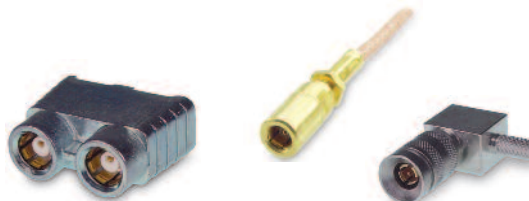
Initially pioneered by Cannon during the 1930s, Interconnect Solutions is the world leader in rack and panel connectors, offering unmatched variety of shell configurations and insert arrangements, materials, plating, and contact options. Many of our standard and custom designs meet the stringent requirements of ARINC 600, ARINC 404 (MIL-C-81659), and MIL-DTL-83733 standards.



[www.ittcannon.com/rackandpanel](http://www.ittcannon.com/rackandpanel)

## RF Connectors

ITT Interconnect Solutions has been providing interconnect products to the Microwave and RF industry since 1963 (formerly The Sealelectro Corporation). The RF 50 & 75 Ohm product lines cover UHF band through Ku band requirements. These connectors and cable assemblies are available with a thread type, snap type, bayonet type or slide on coupling method. The frequencies range from DC to 18+ GHz.



[www.ittcannon.com/RF50](http://www.ittcannon.com/RF50) • [www.ittcannon.com/RF75](http://www.ittcannon.com/RF75)

## Transportation

The ITT ICS interconnect range includes sealed circular and rectangular connectors in metal or plastic shells. These configurations include board to cable or cable to cable/ bulkhead applications. Both signal and power contacts can be combined in various layouts. All product lines within the Transportation segment offer very low contact resistance providing maximum signal integrity.



[www.ittcannon.com/transportation](http://www.ittcannon.com/transportation)

ITT Interconnect Solutions is an international manufacturer and supplier of connectors including circular, rectangular, fiber optic, RF, power and high voltage, audio, PMCIA, Compact Flash Card, enclosures, cable assemblies, and application specific custom solutions. The Interconnect Solutions portfolio includes the brands Cannon, VEAM, and BIW. As a worldwide leader in connector technology for nearly a century, ITT offers one of the broadest product offerings, six sigma manufacturing capability, Value Based Product Development with exceptional engineering capability, and an extensive sales, distribution, and customer support network.



# ITT

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