

Socket Junction Systems

MIL-T-81714 Series II, Class D



MIL-T-81714 Series II Junction Modules

The high pin count, low weight MIL-T-81714 Series II Socket Junction Module System is available in four basic module sizes, accommodating 12-26 AWG wire in a broad selection of bussing arrangements. Modules are supplied with the appropriate and specified MIL-C-39029/22 socket contacts.



Feedback Modules
Feedthru Modules
Distribution Modules



Board Mount Modules



Ground Modules



Sealed Splices



Mounting Tracks

Key Features and Benefits

Improved Performance

Significant Ampenhnl Pcd design innovations over conventional Series II systems assure superior performance in wire sealing, contact alignment and retention, and module extraction.

Feedback Modules

The SJM feedback modules and mounting track system offer a lightweight junction system with a full range of bussing arrangements.

Distribution Modules

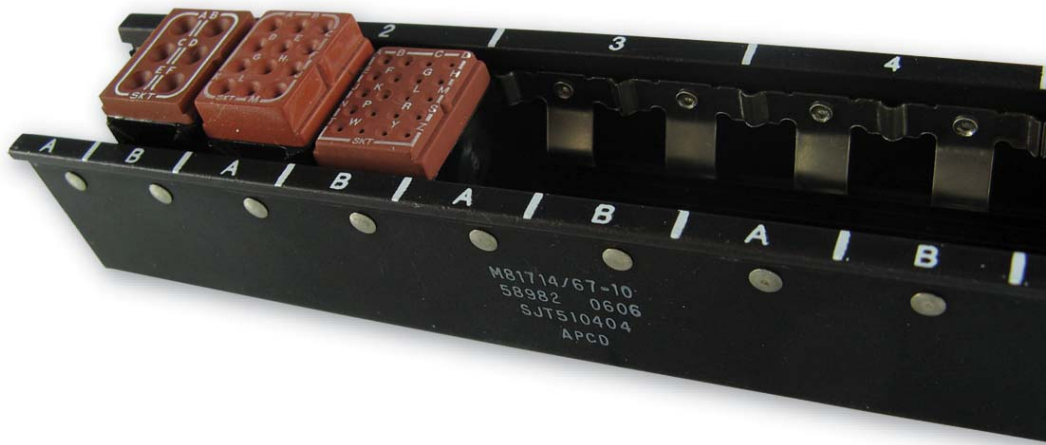
Distribution modules provide a variety of contact combinations for power distribution applications and have the same construction and features as the standard Series II modules.

Ground Modules

SJM grounding modules are available in both center stud and mounting flange versions.

Board Mount Pin Modules

The socket junction modules indicate on the following pages can also be provided in a solder pin version for mounting directly to printed circuit boards, providing a flexible, compact wiring package and eliminating the need for mounting track.



Military Qualified, QPL-Listed MIL-T-81714 Series II, Class D

Socket Junction Modules

| Military P/N | Amphenol Pcd P/N | Page |
|-----------------|------------------|------|
| M81714/60-22-01 | SJM022100 | 49 |
| M81714/60-22-02 | SJM022200 | 49 |
| M81714/60-22-04 | SJM022400 | 49 |
| M81714/60-22-05 | SJM022500 | 49 |
| M81714/60-22-06 | SJM022600 | 49 |
| M81714/60-22-10 | SJM022700 | 49 |
| | | |
| M81714/60-20-01 | SJM020100 | 50 |
| M81714/60-20-02 | SJM020200 | 50 |
| M81714/60-20-03 | SJM020300 | 50 |
| M81714/60-20-04 | SJM020400 | 50 |
| M81714/60-20-06 | SJM020600 | 50 |
| | | |
| M81714/60-16-01 | SJM016100 | 51 |
| M81714/60-16-02 | SJM016200 | 51 |
| M81714/60-16-03 | SJM016300 | 51 |
| | | |
| 51 | | |
| M81714/60-12-01 | SJM012100 | 51 |
| M81714/60-12-02 | SJM012200 | 51 |
| M81714/60-12-03 | SJM012300 | 51 |
| | | |
| M81714/61-0Z | SJM000100 | 52 |
| M81714/61-0Y | SJM000800 | 52 |
| M81714/61-0X | SJM000200 | 52 |
| M81714/61-0W | SJM000300 | 52 |

Socket Grounding Modules

| Military P/N | Amphenol Pcd P/N | Page |
|---------------|------------------|------|
| M81714/63-22S | SJG022170 | 54 |
| M81714/63-20S | SJG020170 | 54 |
| M81714/63-16S | SJG016170 | 54 |
| M81714/63-22F | SJG022270 | 55 |
| M81714/63-20F | SJG020270 | 55 |
| M81714/63-16F | SJG016270 | 55 |
| M81714/63-12F | SJG016270 | 55 |

Socket Junction Module Mounting Track

| Military P/N | Amphenol Pcd P/N | Page |
|--------------|------------------|------|
| M81714/67-02 | SJT502404 | 59 |
| M81714/67-03 | SJT503404 | 59 |
| M81714/67-04 | SJT504404 | 59 |
| M81714/67-05 | SJT505404 | 59 |
| M81714/67-06 | SJT506404 | 59 |
| M81714/67-07 | SJT507404 | 59 |
| M81714/67-08 | SJT508404 | 59 |
| M81714/67-09 | SJT509404 | 59 |
| M81714/67-10 | SJT510404 | 59 |
| M81714/67-12 | SJT512404 | 59 |
| M81714/67-13 | SJT513404 | 59 |
| M81714/67-14 | SJT514404 | 59 |
| M81714/67-15 | SJT515404 | 59 |
| M81714/67-16 | SJT516404 | 59 |
| M81714/67-18 | SJT518404 | 59 |
| M81714/67-19 | SJT519404 | 59 |
| M81714/67-20 | SJT520404 | 59 |
| M81714/67-21 | SJT521404 | 59 |
| M81714/67-25 | SJT525404 | 59 |
| M81714/67-30 | SJT530404 | 59 |
| M81714/67-32 | SJT532404 | 59 |
| M81714/67-40 | SJT540404 | 59 |

In-Line Junction Splices

| Military P/N | Amphenol Pcd P/N | Page |
|----------------|------------------|------|
| M81714/65-16-1 | SJS316700 | 58 |
| M81714/65-20-1 | SJS320700 | 58 |
| M81714/65-22-1 | SJS322700 | 58 |
| M81714/65-16-2 | SJS316701 | 58 |
| M81714/65-20-2 | SJS320701 | 58 |
| M81714/65-22-2 | SJS322701 | 58 |

M81714/60-22

Series II Size 22

Operating Range

Temperature:

-65°C to 200°C

Insulation Resistance:

5000 Megaohms @ 25°C

Dielectric Withstanding Voltage:

1500 VRMS at Sea Level

200 VRMS at 110,000 ft.

Current Rating

5 Amps

Vibration & Shock:

MIL-T-81714 Paragraph

3.5.5 and 3.5.8

Materials

Module Body:

Polytherimide per ASTM-D5205

Grommet:

Silicone Blend Elastomer per A-A-59588

Contact Retainers:

Stainless Steel

Internal Pin and Socket Contacts:

Copper Alloy, Hard Gold Plated in

Accordance with MIL-G-45204

Socket Junction Modules



Amphenol Pcd Socket Junction Modules

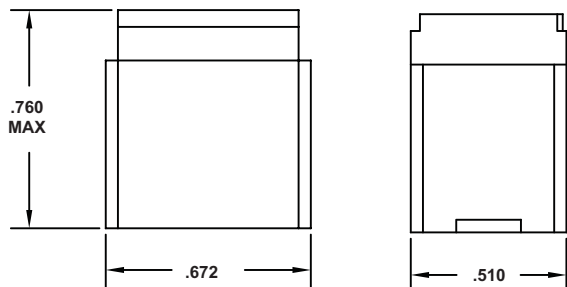
| Bussing Configurations | Part Numbers | | Contact | | |
|------------------------|-----------------|-----------|---------|-------------------|------------|
| | Military P/N | APCD P/N | QTY* | Size ¹ | P/N M39029 |
| | M81714/60-22-01 | SJM022100 | 20 | 22/22 | /22-191 |
| | M81714/60-22-02 | SJM022200 | 20 | 22/22 | /22-191 |
| | M81714/60-22-04 | SJM022400 | 20 | 22/22 | /22-191 |
| | M81714/60-22-05 | SJM022500 | 20 | 22/22 | /22-191 |
| | M81714/60-22-06 | SJM022600 | 20 | 22/22 | /22-191 |
| | M81714/60-22-07 | SJM022700 | 20 | 22/22 | /22-191 |

* Quantity figure denotes number of contacts accommodated by module. Modules are supplied with one additional spare contacts and two sealing plugs.

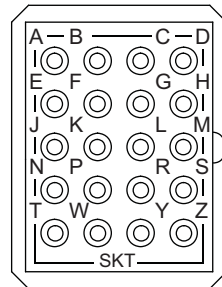
¹ Mating End / Wire Barrel.

Socket Junction Module Dimensions

Front & Side View



Top View



M81714/60-22-01 SHOWN



Amphenol Pcd

Socket Junction Modules

M81714/60-20

Series II Size 20



Operating Range

Temperature:

-65°C to 200°C

Insulation Resistance:

5000 Megaohms @ 25°C

Dielectric Withstanding Voltage:

1500 VRMS at Sea Level

200 VRMS at 110,000 ft.

Current Rating

7.5 Amps

Vibration & Shock:

MIL-T-81714 Paragraph

3.5.5 and 3.5.8

Materials

Module Body:

Polyetherimide per ASTM-D5205

Grommet:

Silicone Blend Elastomer per A-A-59588

Contact Retainers:

Stainless Steel

Internal Pin and Socket Contacts:

Copper Alloy, Hard Gold Plated in

Accordance with MIL-G-45204

Amphenol Pcd Socket Junction Modules

| Bussing Configurations | Part Numbers | | Contact | | |
|------------------------|-----------------|-----------|---------|-------------------|------------|
| | Military P/N | APCD P/N | QTY* | Size ¹ | P/N M39029 |
| | M81714/60-20-01 | SJM020100 | 12 | 20/20 | /22-192 |
| | M81714/60-20-02 | SJM020200 | 12 | 20/20 | /22-192 |
| | M81714/60-20-03 | SJM020300 | 12 | 20/20 | /22-192 |
| | M81714/60-20-04 | SJM020400 | 12 | 20/20 | /22-192 |
| | M81714/60-20-06 | SJM020600 | 12 | 20/20 | /22-192 |

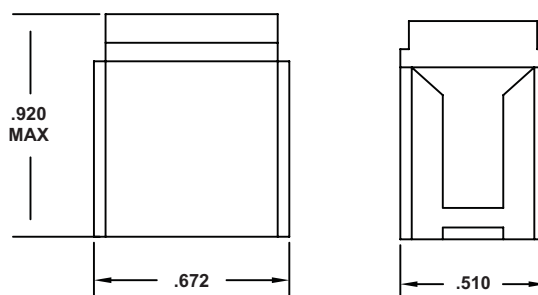
* Quantity figure denotes number of contacts accommodated by module. Modules are supplied with one additional spare contacts and two sealing plugs.

¹ Mating End / Wire Barrel.

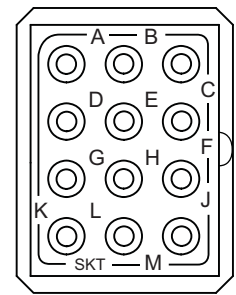


Socket Junction Module Dimensions

Front & Side View



Top View



M81714/60-20-01 SHOWN

M81714/60-16

Series II Size 16

Operating Range

Temperature:
-65°C to 200°C

Insulation Resistance:
5000 Megohms @ 25°C

Dielectric Withstanding Voltage:
1500 VRMS at Sea Level
200 VRMS at 110,000 ft.

Current Rating
13 Amps

Vibration & Shock:
MIL-T-81714 Paragraph
3.5.5 and 3.5.8

Materials

Module Body:
Polyetherimide per ASTM-D5205

Grommet:
Silicone Blend Elastomer per A-A-59588

Contact Retainers:
Stainless Steel

Internal Pin and Socket Contacts:
Copper Alloy, Hard Gold Plated in
Accordance with MIL-G-45204

Socket Junction Modules



Amphenol Pcd Socket Junction Modules

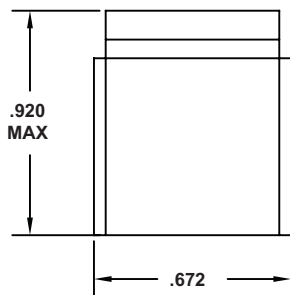
| Bussing Configurations | Part Numbers | | Contact | | |
|------------------------|-----------------|-----------|---------|-------------------|------------|
| | Military P/N | APCD P/N | QTY* | Size ¹ | P/N M39029 |
| | M81714/60-16-01 | SJM016100 | 6 | 16/16 | /22-193 |
| | M81714/60-16-02 | SJM016200 | 6 | 16/16 | /22-193 |
| | M81714/60-16-03 | SJM016300 | 6 | 16/16 | /22-193 |

* Quantity figure denotes number of contacts accommodated by module. Modules are supplied with one additional spare contacts and two sealing plugs.

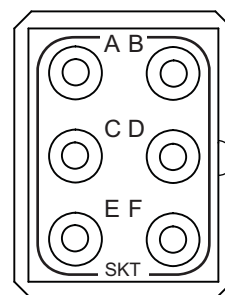
¹ Mating End / Wire Barrel.

Socket Junction Module Dimensions

Front & Side View



Top View



M81714/60-16-01 SHOWN



Amphenol Pcd

Socket Junction Modules

M81714/60-12

Series II Size 12



Operating Range

Temperature:

-65°C to 200°C

Insulation Resistance:

5000 Megaohms @ 25°C

Dielectric Withstanding Voltage:

1500 VRMS at Sea Level

200 VRMS at 110,000 ft.

Current Rating

23 Amps

Vibration & Shock:

MIL-T-81714 Paragraph

3.5.5 and 3.5.8

Materials

Module Body:

Polyetherimide per ASTM-D5205

Grommet:

Silicone Blend Elastomer per A-A-59588

Contact Retainers:

Stainless Steel

Internal Pin and Socket Contacts:

Copper Alloy, Hard Gold Plated in

Accordance with MIL-G-45204

Amphenol Pcd Socket Junction Modules

| Bussing Configurations | Part Numbers | | Contact | | |
|------------------------|-----------------|-----------|---------|-------------------|------------|
| | Military P/N | APCD P/N | QTY* | Size ¹ | P/N M39029 |
| | M81714/60-12-01 | SJM012100 | 6 | 12/12 | /22-605 |
| | M81714/60-12-02 | SJM012200 | 6 | 12/12 | /22-605 |
| | M81714/60-12-03 | SJM012300 | 6 | 12/12 | /22-605 |

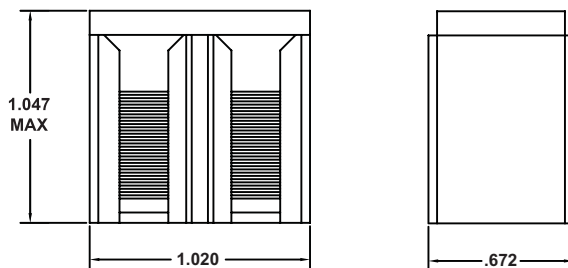
* Quantity figure denotes number of contacts accommodated by module. Modules are supplied with one additional spare contacts and two sealing plugs.

¹ Mating End / Wire Barrel.

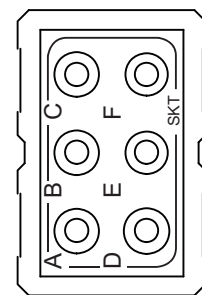


Socket Junction Module Dimensions

Front & Side View



Top View



M81714/60-12-01 SHOWN

M81714/61 Series II

Distribution Socket Junction Modules

Socket Junction Modules

Operating Range

Temperature:

-65°C to 200°C

Insulation Resistance:

5000 Megaohms @ 25°C

Dielectric Withstanding Voltage:

1500 VRMS at Sea Level

200 VRMS at 110,000 ft.

Current Rating

5 Amps (Size 22)

7.5 Amps (Size 20)

13 Amps (Size 16)

23 Amps (Size 12)

Vibration & Shock:

MIL-T-81714 Paragraph

3.5.5 and 3.5.8

Materials

Module Body:

Polyetherimide per ASTM-D5205

Grommet:

Silicone Blend Elastomer per A-A-59588

Contact Retainers:

Stainless Steel

Internal Pin and Socket Contacts:

Copper Alloy, Hard Gold Plated in Accordance with MIL-G-45204



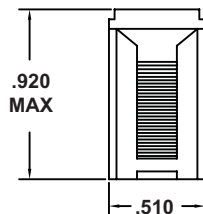
Amphenol Pcd Socket Junction Modules

| Bussing Configurations | Part Numbers | | Contact | | | Bussing |
|------------------------|--------------|-----------|---------|------|------------|--|
| | Military P/N | APCD P/N | QTY | Size | P/N M39029 | Bus Description |
| | M81714/61-0Z | SJM000100 | 6 | 16 | /22-193 | 1 BUS TWO SIZE 12 & SIX SIZE 16 |
| | | | 2 | 12 | /22-605 | |
| | M81714/61-0Y | SJM000800 | 6 | 20 | /22-192 | 1 BUS TWO SIZE 16 & SIX SIZE 20 |
| | | | 2 | 16 | /22-193 | |
| | M81714/61-0X | SJM000200 | 6 | 16 | /22-193 | 2 BUSSES ONE SIZE 12 & THREE SIZE 16 PER BUS |
| | | | 2 | 12 | /22-605 | |
| | M81714/61-0W | SJM000500 | 5 | 22 | /22-191 | 5 BUSSES ONE SIZE 22 & ONE SIZE 20 & ONE SIZE 16 PER BUS |
| | | | 5 | 20 | /22-192 | |
| | | | 5 | 16 | /22-193 | |

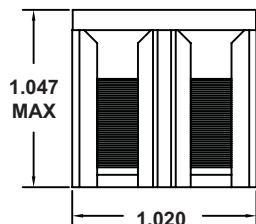
Socket Junction Module Dimensions

Front View

M81714/61-0Y

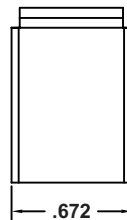


M81714/61-0Z, M81714/61-0X, M81714/61-0W

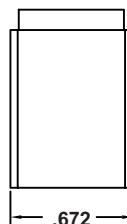


Side View

M81714/61-0Y



M81714/61-0Z, M81714/61-0X, M81714/61-0W



Product Description

Distribution Socket Junction Modules are available in a variety of MIL-T-81714 configurations, feature the same construction and features as the standard Series II high density modules, and are recommended for power distribution applications



Amphenol Pcd

M81714/63 Socket Ground Modules

Stud Mount Series II Size 16, 20, 22

Socket Junction Modules



Operating Range

Temperature:
-65°C to 200°C

Current Rating
5 Amps (Size 22)
7.5 Amps (Size 20)
13 Amps (Size 16)

Vibration & Shock:
MIL-T-81714 Paragraph
3.5.5 and 3.5.8

Materials

Module Body:
Polyetherimide per ASTM-D5205

Grommet:
Silicone Blend Elastomer per A-A-59588

Stud / Shell:
Copper Alloy, Gold Plated per
SAE-AMS-2422. Tin Plating per
ASTM-B545 Also Available as an Alternate

Contact Retainers:
Stainless Steel

Socket Contacts:
Copper Alloy, Hard Gold Plated in
Accordance with MIL-G-45204

Socket Grounding Modules Part Numbers

Product Description

M81714/63, stud mount, socket grounding modules mount directly to a ground plane or ground lug creating a multi-wire sealed grounding device. The grounding modules could also be mounted to a bus bar for power distribution, sensing or metering. All mounting hardware is furnished and custom hardware configurations are available. The mounting stud is available in gold or tin plating.

Part Numbers

Contact

Stud

| Military P/N | APCD P/N | QTY* | Size ¹ | P/N M39029 | Plating |
|---------------|-----------|------|-------------------|------------|---------|
| M81714/63-22S | SJG022170 | 20 | 22/22 | /22-191 | Gold |
| | SJG022100 | 20 | 22/22 | /22-191 | Tin |
| M81714/63-20S | SJG020170 | 12 | 20/20 | /22-192 | Gold |
| | SJG020100 | 12 | 20/20 | /22-192 | Tin |
| M81714/63-16S | SJG016170 | 6 | 16/16 | /22-193 | Gold |
| | SJG016100 | 6 | 16/16 | /22-193 | Tin |

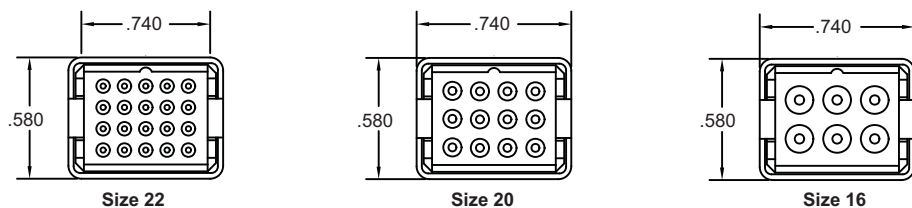
* Quantity figure denotes number of contacts accommodated by module. Modules are supplied with one additional spare contacts and two sealing plugs

¹ Mating End/ Wire Barrel

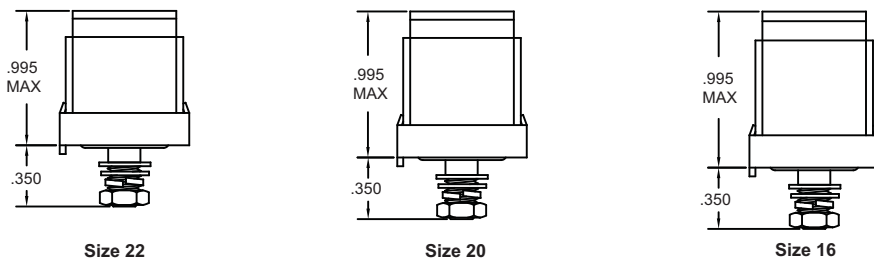


Socket Junction Module Dimensions

Top View



Side View



M81714/63 Socket Ground Modules

Flange Mount Series II Size 12, 16, 20, 22

Operating Range

Temperature:
-65°C to 200°C

Current Rating

5 Amps (Size 22)
7.5 Amps (Size 20)
13 Amps (Size 16)
23 Amps (Size 12)

Vibration & Shock:

MIL-T-81714 Paragraph
3.5.5 and 3.5.8

Materials

Module Body:

Polyetherimide per ASTM-D5205

Grommet:

Silicone Blend Elastomer per A-A-59588

Flange / Shell:

Copper Alloy, Gold Plated per
SAE-AMS-2422. Tin Plating per
ASTM-B545 Also Available as an Alternate

Contact Retainers:

Stainless Steel

Socket Contacts:

Copper Alloy, Hard Gold Plated in
Accordance with MIL-G-45204

Socket Junction Modules



Socket Grounding Modules Part Numbers

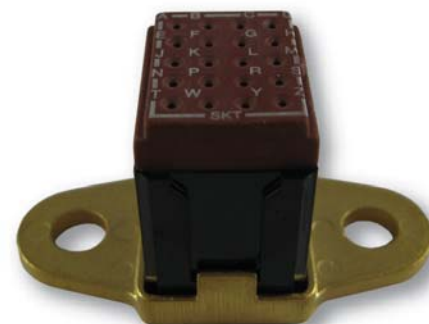
| Part Numbers | | | Contact | | Flange |
|---------------|-----------|------|-------------------|------------|---------|
| Military P/N | APCD P/N | QTY* | Size ¹ | P/N M39029 | Plating |
| M81714/63-22F | SJG022270 | 20 | 22/22 | /22-191 | Gold |
| | SJG022200 | 20 | 22/22 | /22-191 | Tin |
| M81714/63-20F | SJG020270 | 12 | 20/20 | /22-192 | Gold |
| | SJG020200 | 12 | 20/20 | /22-192 | Tin |
| M81714/63-16F | SJG016270 | 6 | 16/16 | /22-193 | Gold |
| | SJG016200 | 6 | 16/16 | /22-193 | Tin |
| M81714/63-12F | SJG012270 | 6 | 12/12 | /22-605 | Gold |
| | SJG012200 | 6 | 12/12 | /22-605 | Tin |

* Quantity figure denotes number of contacts accommodated by module. Modules are supplied with one additional spare contacts and two sealing plugs

¹ Mating End/ Wire Barrel

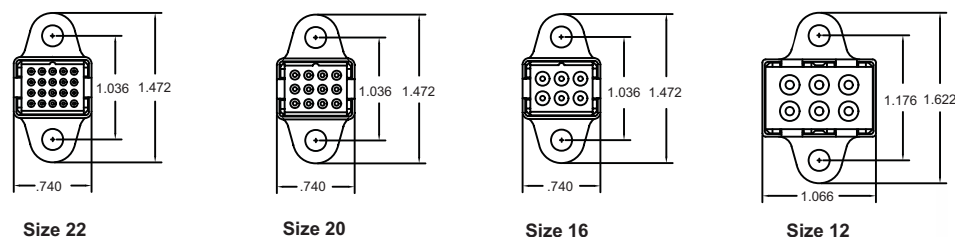
Product Description

M81714/ 63, flange mount, socket grounding modules mount directly to a ground plane or ground lug creating a multi-wire sealed grounding device. The grounding modules could also be mounted to a bus bar for power distribution, sensing or metering. All mounting hardware is furnished and custom hardware configurations are available. The mounting stud is available in gold or tin plating.

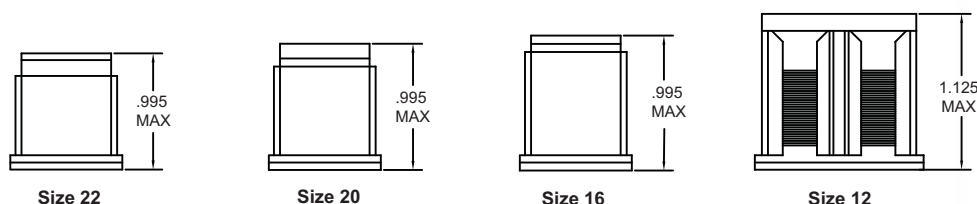


Socket Junction Module Dimensions

Top View



Side View



Amphenol Pcd

Socket Junction Modules

Board Mount Socket Junction Modules Series II Size 12, 16, 20, 22



Operating Range

Temperature:

-65°C to 125°C

Insulation Resistance:

1000 Megaohms Min.

Dielectric Withstanding Voltage:

1500 VRMS at Sea Level

200 VRMS at 80,000 ft.

Current rating:

5 Amps (Size 22)

7.5 Amps (Size 20)

13 Amps (Size 16)

23 Amps (Size 12)

Materials

Module Body:

Polytherimide per ASTM-D5205

Grommet:

Silicone Blend Elastomer per A-A-59588

Contact Retainers:

Stainless Steel

Socket Contacts:

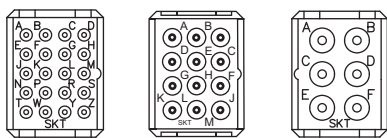
Copper Alloy, Hard Gold Plated in

Accordance with MIL-G-45204

Product Description

The socket junction modules indicate on the following pages can also be provided in a solder pin version for mounting directly to printed circuit boards, providing a flexible, compact wiring package and eliminating the need for mounting track. Please contact Amphenol Pcd for details on the SJP pin module.

Module Configurations



A

B

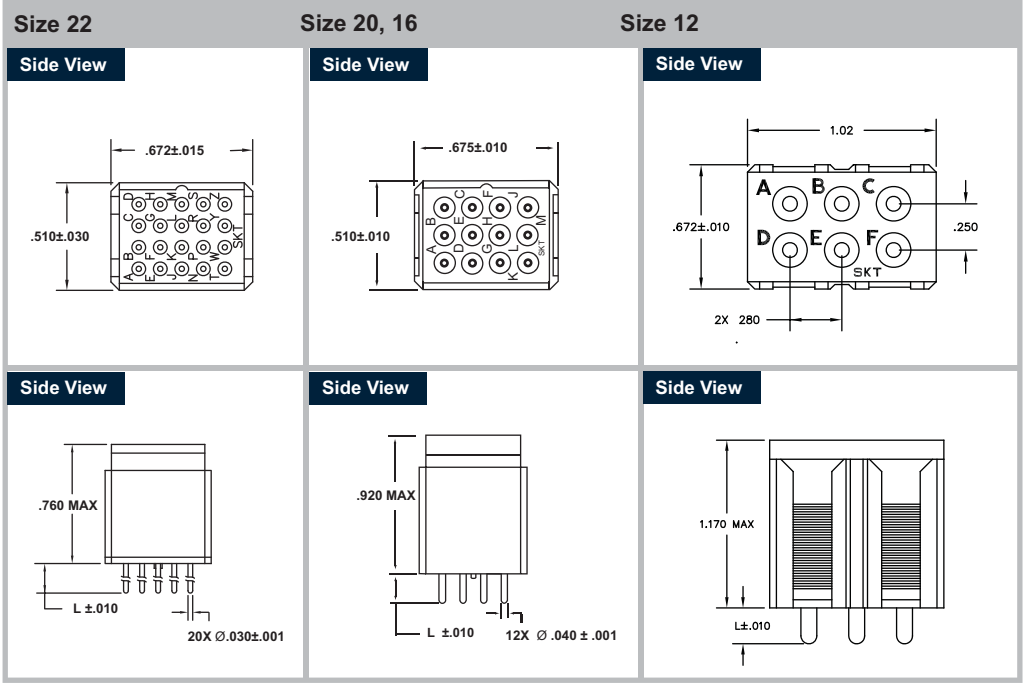
C



Board Mount Socket Junctions

| APCD P/N | QTY | Size | Contact P/N | Config. | DIM. L |
|-----------|-----|-------|---------------|---------|--------|
| SJP022000 | 20 | 22/22 | M39029/22-191 | A | .187 |
| SJP022010 | 20 | 22/22 | M39029/22-191 | A | .250 |
| SJP020000 | 12 | 20/20 | M39029/22-192 | B | .187 |
| SJP020010 | 12 | 20/20 | M39029/22-192 | B | .250 |
| SJP016000 | 6 | 16/16 | M39029/22-193 | C | .187 |
| SJP016010 | 6 | 16/16 | M39029/22-193 | C | .250 |
| SJP012000 | 6 | 12/12 | M39029/22-605 | D | .187 |
| SJP012010 | 6 | 12/12 | M39029/22-605 | D | .250 |
| SJP012010 | 6 | 12/12 | M39029/22-605 | D | .335 |

Board Mount Socket Junction Modules Dimensions



Electronic Socket Junction Modules

SJE Component Modules

Operating Range

Temperature:

-65°C to 200°C

Insulation Resistance:

5000 Megaohms Min.

Dielectric Withstanding Voltage:

1500 VRMS at Sea Level

200 VRMS at 100,000 ft.

Vibration & Shock:

Per MIL-T-81714

Paragraph 3.5.5 & 3.5.8

Materials

Insulator Body:

Polyetherimide per ASTM-D-5205

Grommet:

Silicone Rubber per A-A-59588

Internal Contact:

Copper Alloy, Gold Finish

per SAE-AMS-MIL-G-45204

Socket Junction Modules



Electronic Socket Junction Modules

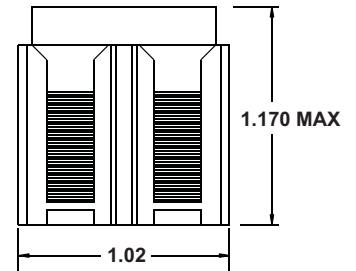
| Circuit Diagram | APCD P/N | Component | Quantity |
|-----------------|-----------|-----------|----------|
| | SJE020001 | Diode | 5 |
| | SJE020003 | Diode | 4 |
| | SJE020006 | Resistor | 5 |
| | SJE020008 | Diode | 2 |
| | SJE020009 | Diode | 5 |
| | SJE020016 | Diode | 5 |
| | SJE020017 | Resistor | 4 |
| | SJE020022 | Diode | 5 |
| | SJE020045 | Diode | 5 |
| | SJE020290 | Resistor | 2 |
| | SJE020297 | Fuse | 5 |

Product Descriptions

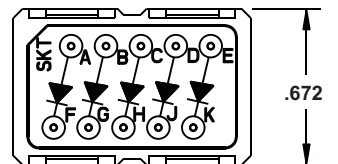
Amphenol Pcd's Electronic Socket Junction Modules are available with a variety of components and in a wide range of configurations. Components available include, but are not limited to, diodes, resistors, fuses, thyristors, and inductors, and are also available with multiple components within one module. There are new configurations produced regularly and customized components are also available.

Junction Module Dimensions

Side View



Top View



Amphenol Pcd

M81714/65 Sealed In-Line Splices

SJS Series II Single and Double

Socket Junction Splices



Operating Range

Temperature:
-65°C to 200°C

Insulation Resistance:
5000 Megaohms Min.

Dielectric Withstanding Voltage:
1500 VRMS at Sea Level
200 VRMS at 100,000 ft.

Vibration & Shock:
Per MIL-T-81714
Paragraph 3.5.5 & 3.5.8

Current Rating:
13 Amps (Size 16)
7.5 Amps (Size 20)
5 Amps (Size 22)

Materials

Insulator Body:
Polyetherimide per ASTM-D-5205

Grommet:
Silicone Rubber per A-A-59588

Internal Contact:
Copper Alloy, Gold Finish
Accordance with MIL-G-45204

Product Description

Series II In-Line Splices are available in single and double configurations in sizes 16, 20, and 22 AWG. These M81714/65 Splices use the same advanced polyetherimide body, one-piece bus assembly and construction as Amphenol Pcd's other M81714 connectors.

Single SJS Splices

| | Military P/N | APCD P/N | Ø Diameter |
|--|----------------|-----------|------------|
| | M81714/65-16-1 | SJS316700 | .324 Max |
| | M81714/65-20-1 | SJS320700 | .290 Max |
| | M81714/65-22-1 | SJS322700 | .230 Max |

Sealed Splice Contacts

| In-Line Splice | Contact |
|----------------|---------------|
| M81714/65-16-1 | M39029/22-193 |
| M81714/65-20-1 | M39029/22-192 |
| M81714/65-22-1 | M39029/22-191 |
| M81714/65-16-2 | M39029/22-193 |
| M81714/65-20-2 | M39029/22-192 |
| M81714/65-22-2 | M39029/22-191 |

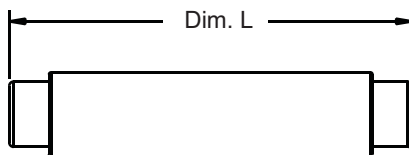
Double SJS Splices

| | Military P/N | APCD P/N | A | B | C |
|--|----------------|-----------|----------|----------|----------|
| | M81714/65-16-2 | SJS316701 | .548 Max | .304 Max | .180 Max |
| | M81714/65-20-2 | SJS320701 | .481 Max | .271 Max | .150 Max |
| | M81714/65-22-2 | SJS322701 | .384 Max | .204 Max | .120 Max |

Splice Dimensions

SJS Single Splice

Side View

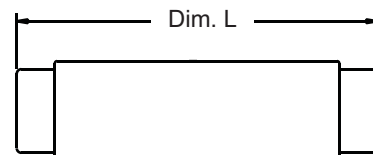


Wire Size Dimension L

| | |
|---------|-----------|
| Size 16 | 1.452 Max |
| Size 20 | 1.434 Max |
| Size 22 | 1.310 Max |

SJS Double Splice

Side View



Wire Size Dimension L

| | |
|---------|-----------|
| Size 16 | 1.428 Max |
| Size 20 | 1.428 Max |
| Size 22 | 1.322 Max |

M81714/67 Series II

Socket Junction Module Mounting Tracks

Operating Range

Temperature:

-65° to 200°C

Corrosion:

No Exposure of Base Metal
After 48 Hours of Salt Spray

Magnetic Permeability:

2.0 MU Max.

Vibration and Shock:

Per MIL-T-81714 Paragraph
3.5.5 and 3.5.8

Materials

Rail:

Aluminum Alloy, Black Anodized

Spring Clips:

Stainless Steel

Rivets:

Stainless Steel

Socket Junction Modules



Socket Junction Modules Mounting Tracks

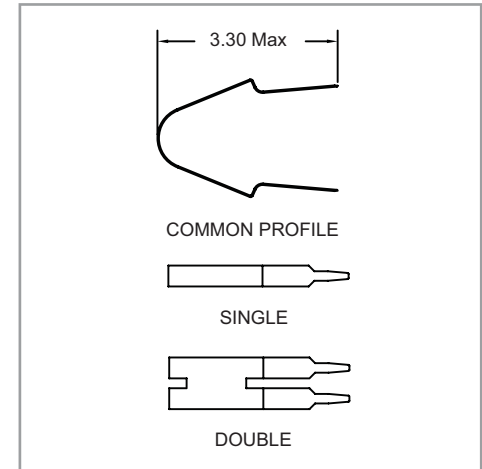
| Military P/N | APCD | Mounting Pos.* | Dimensions | |
|--------------|-----------|----------------|------------|--------|
| | | | A | B |
| M81714/67-02 | SJT502404 | 2 | 1.036 | 0.518 |
| M81714/67-03 | SJT503404 | 3 | 1.554 | 1.036 |
| M81714/67-04 | SJT504404 | 4 | 2.072 | 1.554 |
| M81714/67-05 | SJT505404 | 5 | 2.590 | 2.072 |
| M81714/67-06 | SJT506404 | 6 | 3.108 | 2.590 |
| M81714/67-07 | SJT507404 | 7 | 3.626 | 3.108 |
| M81714/67-08 | SJT508404 | 8 | 4.144 | 3.626 |
| M81714/67-09 | SJT509404 | 9 | 4.662 | 4.144 |
| M81714/67-10 | SJT510404 | 10 | 5.180 | 4.662 |
| M81714/67-12 | SJT512404 | 12 | 6.216 | 5.698 |
| M81714/67-13 | SJT513404 | 13 | 6.734 | 6.216 |
| M81714/67-14 | SJT514404 | 14 | 7.252 | 6.734 |
| M81714/67-15 | SJT515404 | 15 | 7.770 | 7.252 |
| M81714/67-16 | SJT516404 | 16 | 8.288 | 7.770 |
| M81714/67-18 | SJT518404 | 18 | 9.324 | 8.806 |
| M81714/67-19 | SJT519404 | 19 | 9.842 | 9.324 |
| M81714/67-20 | SJT520404 | 20 | 10.360 | 9.842 |
| M81714/67-21 | SJT521404 | 21 | 10.878 | 10.360 |
| M81714/67-25 | SJT525404 | 25 | 12.950 | 12.432 |
| M81714/67-30 | SJT530404 | 30 | 15.540 | 15.022 |
| M81714/67-32 | SJT532404 | 32 | 16.576 | 16.058 |
| M81714/67-40 | SJT540404 | 40 | 20.720 | 20.202 |

*Size 12 Modules require two mounting positions

Removal Tools

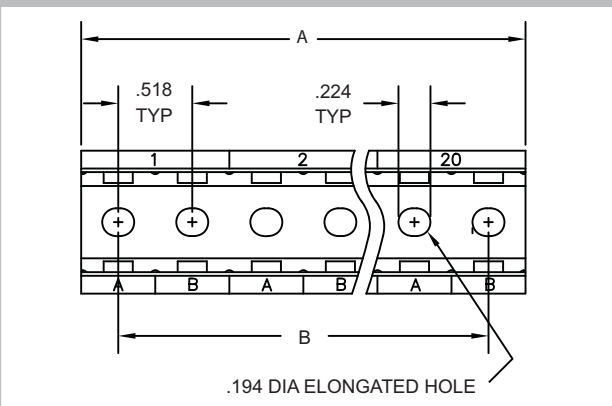
| MIL P/N | APCD P/N | Description |
|--------------|-----------|-------------|
| M81714/69-01 | CNA051300 | Single |
| M81714/69-02 | CNA052300 | Double |

Removal Tools

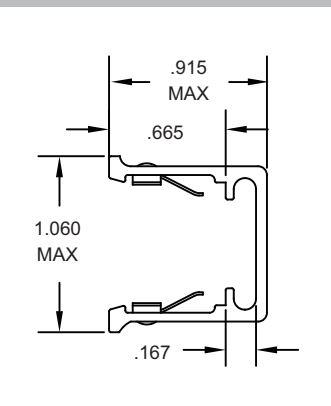


Socket Junction Track Dimensions

Top View



Cross Section



Amphenol Pcd

M81714/67 Series II

Composite Socket Junction Module Mounting Tracks

Socket Junction Modules



Operating Range

Temperature:

-65° to 175°C

Vibration and Shock:

Per MIL-T-81714 Paragraph

3.5.5 and 3.5.8

Materials

Rail:

Glass Filled Polyetherimide,

Color: Black

Product Description

The SJTC Mounting Track is fabricated of glass-filled polyetherimide which was selected for its unique combination of high strength, lightweight, chemical resistance and dimensional stability. The track is available with 2 through 20 mounting positions and is inter-changeable with existing aluminum track. The new track is 45% lighter than the aluminum track and 10% lighter than any other series II track available, and meets all dimensional requirements of MIL-T-81714.

Composite Socket Junction Module Mounting Tracks

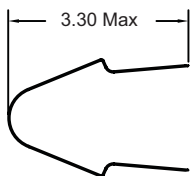
| Military Equivalent P/N | APCD P/N | Mounting Pos. | Dimensions | |
|-------------------------|-----------|---------------|------------|-------|
| | | | A | B |
| M81714/67-02 | SJTC02000 | 2 | 1.036 | 0.518 |
| M81714/67-03 | SJTC03000 | 3 | 1.554 | 1.036 |
| M81714/67-04 | SJTC04000 | 4 | 2.072 | 1.554 |
| M81714/67-05 | SJTC05000 | 5 | 2.590 | 2.072 |
| M81714/67-06 | SJTC06000 | 6 | 3.108 | 2.590 |
| M81714/67-07 | SJTC07000 | 7 | 3.626 | 3.108 |
| M81714/67-08 | SJTC08000 | 8 | 4.144 | 3.626 |
| M81714/67-09 | SJTC09000 | 9 | 4.662 | 4.144 |
| M81714/67-10 | SJTC10000 | 10 | 5.180 | 4.662 |
| | SJTC11000 | 11 | 5.698 | 5.180 |
| M81714/67-12 | SJTC12000 | 12 | 6.216 | 5.698 |
| M81714/67-13 | SJTC13000 | 13 | 6.734 | 6.216 |
| M81714/67-14 | SJTC14000 | 14 | 7.252 | 6.734 |
| M81714/67-15 | SJTC15000 | 15 | 7.770 | 7.252 |
| M81714/67-16 | SJTC16000 | 16 | 8.288 | 7.770 |
| | SJTC17000 | 17 | 8.806 | 8.288 |
| M81714/67-18 | SJTC18000 | 18 | 9.324 | 8.806 |
| M81714/67-19 | SJTC19000 | 19 | 9.842 | 9.324 |
| M81714/67-20 | SJTC20000 | 20 | 10.360 | 9.842 |

*Size 12 Modules require two mounting positions

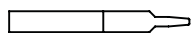
Removal Tools

| MIL P/N | APCD P/N | Description |
|--------------|-----------|-------------|
| M81714/69-01 | CNA051300 | Single |
| M81714/69-02 | CNA052300 | Double |

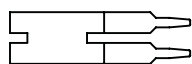
Removal Tools



COMMON PROFILE



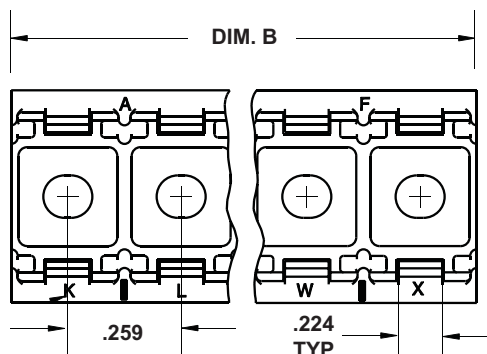
SINGLE



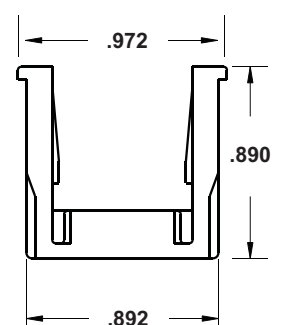
DOUBLE

Composite Socket Junction Module Mounting Tracks

Top View



Cross Section



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