

Terminal Junction Splices



Terminal Junction Splices

Single/ Dual/ Diode M81714/11, /12,/24 Series I

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 AS-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

Accordance with MIL-G-45204

Product Description

Single and Dual Splices and Electronic Splices are designed to provide a quick and efficient solution to customer wiring requirements.

Single and Dual Wire Splices meet MIL-T-81714/11 & 12 requirements and are highly resistant to temperature and fluids.

TJSE electronic modules can be supplied with a wide variety of diodes, resistors, capacitors, and fuses within the splice itself. TJSE electronic splices meet the electronic parameters of MIL-81714/24 and allow customers to incorporate system modifications into a wire bundle, avoiding changes in panels or boards.

Typical examples are represented to the right, but customer specific designs are welcomed, and an extensive list of existing splices are available on the next page.



Single Wire Splices

| | Contacts | | Part Numbers | | |
|--|---------------|-----------|--------------|-------|--------------|
| | Military P/N | APCD P/N | Quantity | Size* | Part No. |
| | M81714/11-22D | TJS322700 | 2 | 16/22 | M39029/1-100 |
| | M81714/11-20D | TJS320700 | 2 | 16/20 | M39029/1-101 |
| | M81714/11-12D | TJS316700 | 2 | 14/16 | M39029/1-102 |
| | M81714/11-16D | TJS312700 | 2 | 12/12 | M39029/1-103 |

Dual Wire Splices

| Bussing Type | Part Numbers | | Contacts | | Diameter | | |
|--------------|---------------|-----------|----------|-------|------------|------|------|
| | MIL P/N 81714 | APCD P/N | Quantity | Size* | P/N M39029 | A | B |
| | /12-22D-1 | TJS322701 | 4 | 16/22 | /1-100 | .400 | .275 |
| | /12-20D-1 | TJS320701 | 4 | 16/20 | /1-101 | .400 | .275 |
| | /12-16D-1 | TJS316701 | 4 | 14/16 | /1-102 | .500 | .300 |
| | /12-22D-2 | TJS322702 | 4 | 16/22 | /1-100 | .400 | .275 |
| | /12-20D-2 | TJS320702 | 4 | 16/20 | /1-101 | .400 | .275 |
| | /12-16D-2 | TJS316702 | 4 | 14/16 | /1-102 | .500 | .300 |

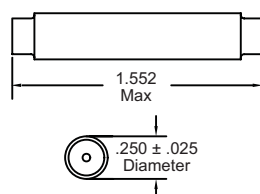
Electronic Splices

| Circuit Type | Part Numbers | | Diode | | Contacts | | |
|---|--------------|-------------|----------|-------|----------|------------|--|
| | APCD P/N | Diode P/N | Quantity | Size* | Quantity | P/N M39029 | |
|  | TJSE22707 | JANTX1N5622 | 1 | 16/22 | 4 | 1-100 | |
| | TJSE20705 | JANTX1N5622 | 1 | 16/20 | 4 | 1-101 | |
|  | TJSE22709 | JANTX1N5622 | 2 | 16/22 | 4 | 1-100 | |
| | TJSE20705 | JANTX1N5622 | 2 | 16/20 | 4 | 1-101 | |

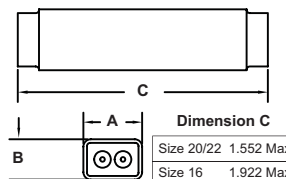
*Mating Pin Wire Barrel

Relay Socket Dimensions

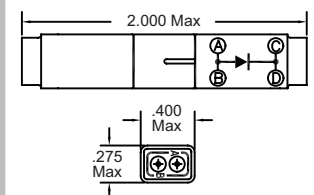
Single Splice



Double Splice



Electronic Splice



Electronic Terminal Junction Splices

MIL-T-81714/24 Compatible Class D

Terminal Junction Modules

Amphenol Pcd's Electronic Terminal Junction Splices 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, capacitors, thyristors, and inductors, and are also available with multiple components within one module. The following are currently available Electronic Terminal Junction Splices, although there are new configurations produced regularly and customized components are also available.



Amphenol Pcd Terminal Junction Splices

| Circuit Diagram | APCD P/N | Part | Part P/N | Quantity |
|-----------------|-----------|-----------|-------------|----------|
| | TJSE20501 | Inductor | 1 100μH | 1 |
| | TJSE20503 | Fuse | 5 AMP 125V | 1 |
| | TJSE20505 | Resistor | RW81 38Ω 1W | 1 |
| | TJSE20506 | Resistor | 120 Ω 1/4W | 2 |
| | TJSE20509 | Diode | 5 Amp | 2 |
| | TJSE20510 | Diode | 1 Amp 125V | 1 |
| | TJSE20513 | Capacitor | 620pF | 1 |
| | TJSE20520 | Capacitor | 390pF | 5 |
| | TJSE20523 | Resistor | 15KΩ 1/4W | 1 |
| | TJSE20525 | Resistor | 10K Ω 1/4W | 1 |
| | TJSE20526 | Resistor | 910 Ω 1/4W | 1 |
| | TJSE20553 | Resistor | 1KΩ 1/2W | 1 |
| | TJSE20554 | Resistor | 18KΩ 1/2W | 2 |
| | TJSE20555 | Resistor | 18KΩ 1/2W | 1 |

| Circuit Diagram | APCD P/N | Part | Part P/N | Quantity |
|-----------------|-----------|----------|---------------|----------|
| | TJSE20599 | Diode | JANTX1N5554 | 1 |
| | TJSE20602 | Diode | JANTX1N5618 | 2 |
| | TJSE20703 | Diode | 1N5819 | 2 |
| | TJSE20705 | Diode | JANTX1N5622 | 1 |
| | TJSE20706 | Diode | JANTX1N5622 | 2 |
| | TJSE20710 | Diode | 1N5622 | 1 |
| | TJSE20711 | Diode | 1N4006 | 2 |
| | TJSE22503 | Fuse | 5 AMP 125V | 1 |
| | TJSE22514 | Resistor | 10K Ω, 1/4 W | 1 |
| | TJSE22517 | Resistor | 120 Ω, 1 W | 1 |
| | TJSE22523 | Resistor | 75K Ω, 1/2 W | 2 |
| | TJSE22707 | Diode | JANTX1N5622 | 2 |
| | TJSE20599 | Diode | 1N5622 | 1 |
| | TJSE20599 | Resistor | 78.7 Ω, 1/4 W | 2 |

Mouser Electronics

Authorized Distributor

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