

# Terminal Junction Splices

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

## Terminal 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 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

1.552 Max  
.250 ± .025 Diameter

### Double Splice

Dimension C  
Size 20/22 1.552 Max  
Size 16 1.922 Max

### Electronic Splice

2.000 Max  
.275 Max

# 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	1 100 $\mu$ H	1
	TJSE20503	Fuse	5 AMP 125V	1
	TJSE20505	Resistor	RW81 38 $\Omega$ 1W	1
	TJSE20506	Resistor	120 $\Omega$ 1/4W	2
	TJSE20509	Diode	5 Amp	2
	TJSE20510	Diode	1 Amp 125V	1
	TJSE20513	Capacitor	620pF	1
	TJSE20520	Capacitor	390pF	5
	TJSE20523	Resistor	15K $\Omega$ 1/4W	1
	TJSE20525	Resistor	10K $\Omega$ 1/4W	1
	TJSE20526	Resistor	910 $\Omega$ 1/4W	1
	TJSE20553	Resistor	1K $\Omega$ 1/2W	1
	TJSE20554	Resistor	18K $\Omega$ 1/2W	2
	TJSE20555	Resistor	18K $\Omega$ 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 $\Omega$ , 1/4 W	1
	TJSE22517	Resistor	120 $\Omega$ , 1 W	1
	TJSE22523	Resistor	75K $\Omega$ , 1/2 W	2
	TJSE22707	Diode	JANTX1N5622	2
	TJSE20599	Diode	1N5622	1
	TJSE20599	Resistor	78.7 $\Omega$ , 1/4 W	2