



15 KVDC

GENERAL SPECIFICATIONS

For Limited Military/Aerospace Applications

SID Series *

This series of push-on/pull-off connectors provides a reliable 15 KVDC high voltage connection for use in military and aerospace applications.

A unique interface sealing system allows these connectors to perform well under vibration, shock, altitude and temperature extremes. Mated SID assemblies also have good corona characteristics.

SID assemblies are especially well suited for interconnecting high voltage system components. The excellent flexibility of the silicone cable makes system cable routing simple and reliable.

A variety of panel connectors are available as well as straight and right angle cable plug assemblies.

SID assemblies are widely used in:

- Electronic Countermeasure Systems
- TWT connections • Lasers

Interface cleaning

High voltage connectors must always be cleaned prior to mating. The proper cleaning method is to wipe or spray the interface area with isopropyl alcohol and immediately blow an inert gas such as dry nitrogen over the interface area until dry. No other cleaning method should be attempted.

WARNING: These connectors should NEVER be handled, mated or unmated when voltage is applied.



GENERAL SPECIFICATION

Altitude operating voltage (mated)

Altitude rating

Operating temperature range

Insulator material

Coupling

Contact material/finish

Cable type

100% voltage test @ 70,000 ft. (simulated) and ambient temperature

Cable Assembly

Length vs Manufacturing

Tolerance Chart

Cable Assemblies (female)

15 KVDC

To 70,000 ft.

-55°C to + 95°C

Silicone Rubber

Push-on/pull off

Be Cu/Gold plate (female)

Silicone Rubber

20 KVDC

Length: feet/M

7.5/2.28 or less
 7.5/2.2 to 12.5/3.8
 12.5/3.8 to 22.5/6.8
 22.5/6.8 to 35/10.6
 35/10.6 to 50/15.2
 50/15.2 to 70/21.3
 70/21.3 to 100/30.4

Receptacles (male)

15 KVDC

To 70,000 ft.

-55°C to +95°C

Plastic

Push on/pull off

Brass/Gold (male)

N/A

20 KVDC

Tolerance: inches/mm

0.25/6.3
 1.0/25.4
 1.50/38.1
 2.0/50.8
 3.0/76.2
 4.0/101.6
 5.0/127

* Reynolds Industries, Inc. acquired the SID product line from Rowe Industries, Inc. in 1997.



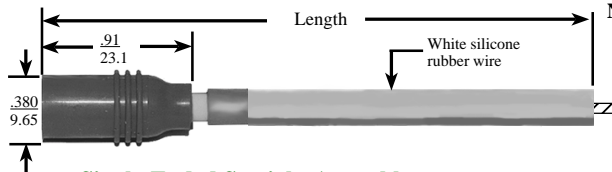
15 KVDC

Altitude Rated
For Limited Military/Aerospace Applications
Operating Temperature:
-55°C to +95°C

SID

15 KVDC Plug Cable Assemblies

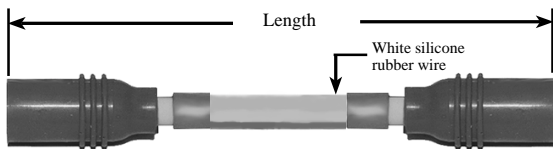
Altitude Rated
to 70,000 ft.



Note: Stranded wire shown on single-ended assemblies is for factory testing and is not included in length dimension.

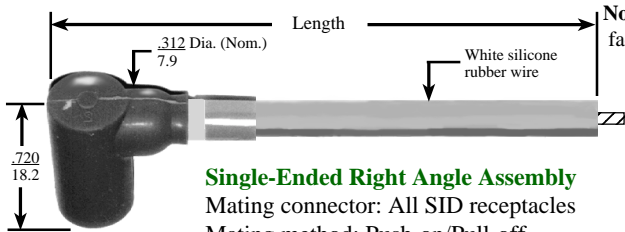
Part Number	Wire Dia.
178-6076	0.165 (4.1)
178-6075	0.180 (4.5)

Single-Ended Straight Assembly
Mating connector: All SID receptacles
Mating method: Push-on/Pull-off



Part Number	Wire Dia.
178-6078	0.165 (4.1)
178-6077	0.180 (4.5)

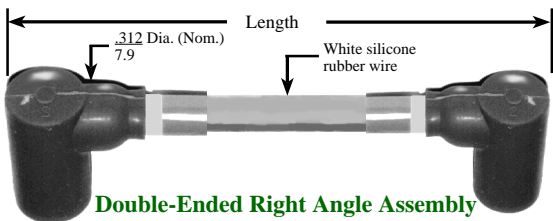
Double-Ended Straight assembly
Mating connector: All SID receptacles
Mating method: Push-on/Pull-off



Note: Stranded wire shown on single-ended assemblies is for factory testing and is not included in length dimension.

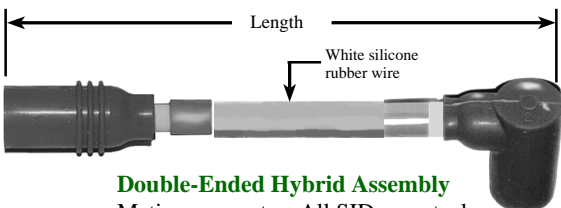
Part Number	Wire Dia.
178-6080	0.165 (4.1)
178-6079	0.180 (4.5)

Single-Ended Right Angle Assembly
Mating connector: All SID receptacles
Mating method: Push-on/Pull-off



Part Number	Wire Dia.
P/N 178-6082	0.165 (4.1)
P/N 178-6081	0.180 (4.5)

Double-Ended Right Angle Assembly
Mating connector: All SID receptacles
Mating method: Push-on/Pull-off



Part Number	Wire Dia.
P/N 178-6084	0.165 (4.1)
P/N 178-6083	0.180 (4.5)

Double-Ended Hybrid Assembly
Mating connector: All SID receptacles
Mating method: Push-on/Pull-off

Ordering Cable Assemblies

Use -XLX to specify cable assembly length.

X = feet L X = inches.

Example: -4L6 is 4 feet, 6 inches.

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SID

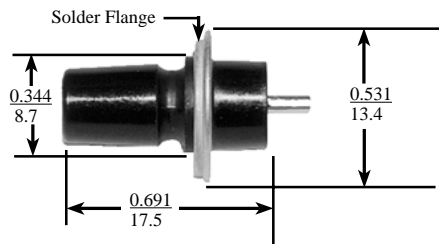
15 KVDC

Altitude Rated
For Limited Military/Aerospace Applications
Operating Temperature:
-55°C to +95°C

SID

15 KVDC Receptacles

Altitude Rated
to 70,000 ft.



Solder-Flanged Receptacle 15 KVDC

P/N 26RC1031 (Male Contact)

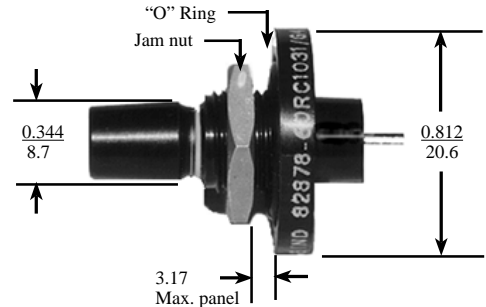
Mounting: Solder flange

Terminal type: Exposed solder tube

Body Material: Molded Plastic

Mating connectors: Mates all SID cable assemblies

Maximum Leakage: 1×10^{-6} cc/sec. He



Flanged Jam Nut Receptacle 15 KVDC

P/N 60RC1031 (Male Contact)

Mounting: Jam nut flange

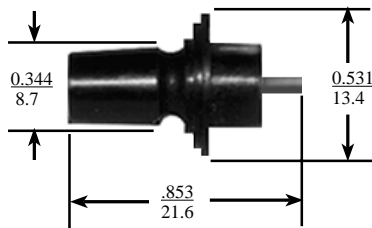
Terminal type: Exposed solder tube

Body Material: Molded Plastic

Mating connectors: Mates all SID cable assemblies

Seals: "O" ring flange seal

Maximum Leakage: 1×10^{-6} cc/sec. He



Plastic-Flanged Receptacle 15 KVDC

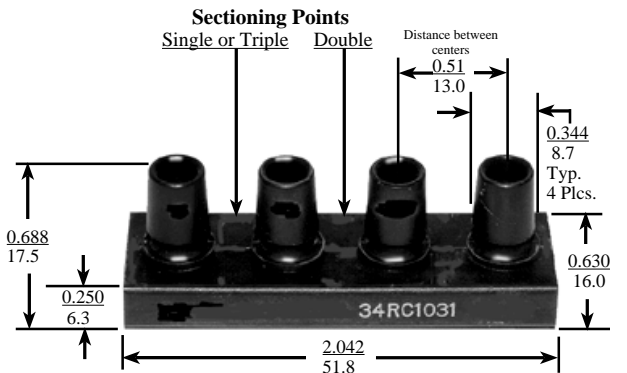
P/N 29RC1031 (Male Contact)

Mounting: Designed for encapsulation or bonding

Terminal type: Flush to recessed solder tube

Body Material: Molded Plastic

Mating connectors: Mates all SID cable assemblies



Plastic 4-Receptacle Block 15 KVDC (each)

P/N 34RC1031 (Male Contact, 4 places)

Mounting: Designed for encapsulation or bonding

Terminal type: Flush solder tube (4 places)

Body Material: Molded Plastic

Mating connectors: Mates all SID cable assemblies

Seals: None

Note Block can be precision cut by customer to convert to single, double or triple connector