

6-Pin, Subminiature Rectangular Connectors

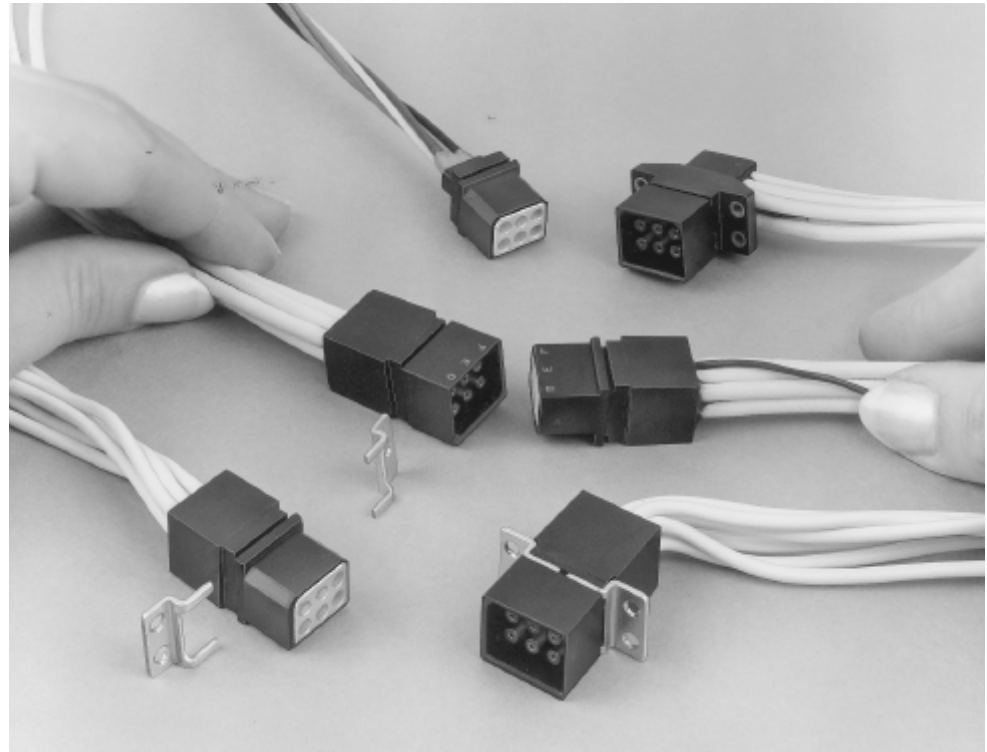
Product Facts

- Extremely lightweight — total weight of mated pair is less than 14 grams
- Compact design — requires less than .6 square inch [387 mm²] of mounting surface; occupies less than .750 cubic inch [.229 mm³] of volume per mated pair
- Quick connect/disconnect design
- Resilient silicone rubber insert in plug half provides positive interfacial seal for mated connector
- Withstands 10 KVDC hipot test
- Housing styles for potting, chassis slot (channel) mounting, panel mounting and free-hanging applications
- Lettered positions for easy circuit identification
- Size 22, gold plated contacts with 5 ampere rating accommodate 28 to 22 AWG [0.08 to 0.4 mm²] wire
- Connectors pre-assembled with leads, fully potted and tested
- 6 KVDC at 70,000 ft. [21,336m]; -67°F to +257°F [-55°C to +125°C] operating storage temperature
- Flame retardant, glass reinforced thermoplastic polyester housings standard color, black

Mounting Brackets, Slip-on (For Commercial or Military Assemblies with slotted housings)

Part Number 861214-2 — Two, .106 [2.69] Dia. Mounting Holes

Part Number 861215-2 — One, .106 [2.69] Dia. Mounting Hole



AMP Subminiature High Voltage Connectors are designed for use in electronic high voltage circuits, especially in critical applications and harsh environments. It is exceptionally lightweight and compact. Can be operated within a temperature range of -67°F to 257°F [-55°C to +125°C] and up to 6 KVDC at an altitude of 70,000 feet [21,336 meters].

The connector incorporates many features for electrical, mechanical and environmental integrity.

Tyco Electronics supplies the Subminiature High Voltage Connector in a 6-position size, pre-

assembled with silicone or TEFLON insulation. For optimum versatility, connector housings are available for 180° (straight) or 90° (right-angle) rear-entry wiring and in a choice of styles for potting, chassis-slot (channel) mounting, panel mounting and free-hanging applications. Panel-mounted versions can be furnished either with separate "slip-on" metal mounting brackets or with a molded mounting flange that is an integral part of the connector. All connector styles are fully potted (and have been tested for environmental integrity and reliability of performance).

Material and Finish

Housings and Potting Shells — Thermoplastic polyester, glass-filled, flame retardant; standard color, black

Contacts — Beryllium copper; plated .000030 [0.00076] min. gold per MIL-G-45204, over .000030 [0.00076] min. nickel per QQ-N-290

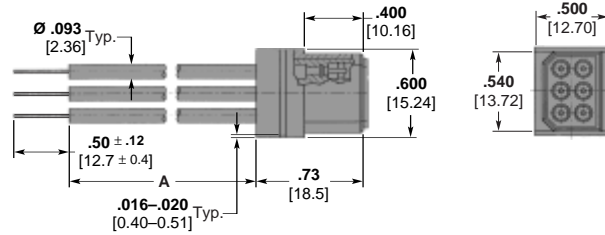
Mounting Brackets — Carbon steel, nickel plated

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Plug Assemblies and Kits

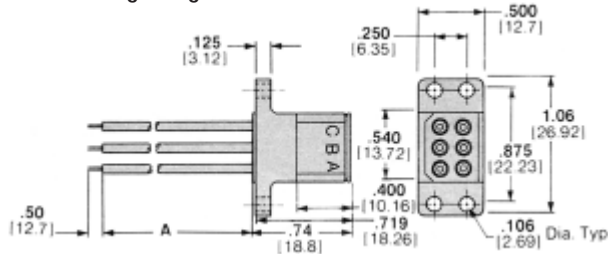
Flying Leads

Assembly A Lead Length	Assembly with 22 AWG Silicone
15.00 ± .50 381.0 ± 12.7	867622-1
24.00 ± .50 609.6 ± 12.7	867622-2



Pin No.	Wire Color
A	Yellow
B	Red
C	Brown
D	Blue
E	Green
F	Black

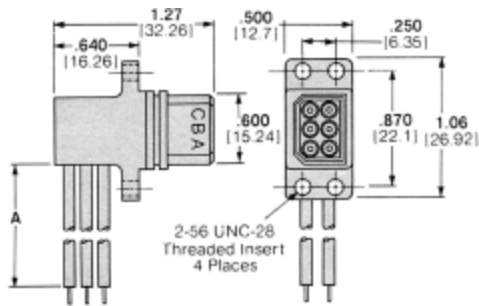
Molded Mounting Flange



Assembly Lead Length A	Assembly with 22 AWG Silicone	Assembly with 24 AWG TEFLON
12 304.8	867465-1 5-867465-1*	867464-1
24 609.6	867465-2 5-867465-2*	867464-2
36 914.4	867465-3 5-867465-3*	867464-3 5-867464-3*

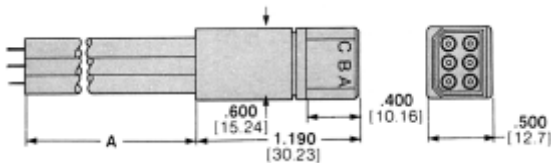
*RoHS compliant Part Number.

Right-Angle



Kit Part Number	Assembly Lead Length A	Assembly with 22 AWG Silicone	Assembly with 24 AWG TEFLON
448479-1 Kit with Flange	12 304.8	867467-1	867466-1
	24 609.6	867467-2	867466-2
	36 914.4	867467-3	867466-3

Slotted Version with Potting Shell



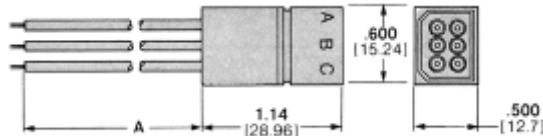
Kit Part Number	Assembly Lead Length A	Assembly with 22 AWG Silicone	Assembly with 24 AWG TEFLON
867482-1	12 304.8	867463-1	867462-1
	24 609.6	867463-2 5-867463-2*	867462-2
	36 914.4	867463-3	867462-3

*RoHS compliant Part Number.

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Receptacle Assemblies and Kits

Slotted



Color Coding

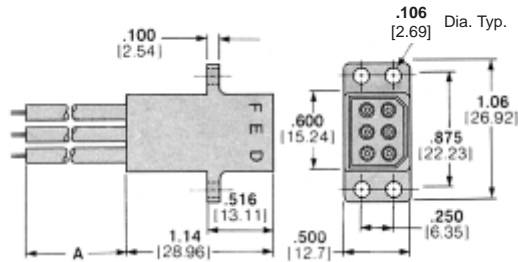
Leads are color coded as tabulated here. Other color leads can be used in custom assemblies.

Kit Part Number	Assembly Lead Length A	Assembly with 22 AWG Silicone	Assembly with 24 AWG TEFLON
867483-1	12 304.8	867469-1	867468-1 5-867468-1*
	24 609.6	867469-2	867468-2
	36 914.4	867469-3	867468-3 5-867468-3*

*RoHS compliant Part Number.

Pin No.	Wire Color
A	Brown
B	Red
C	Green
D	Blue
E	Black
F	White

Molded Mounting Flange

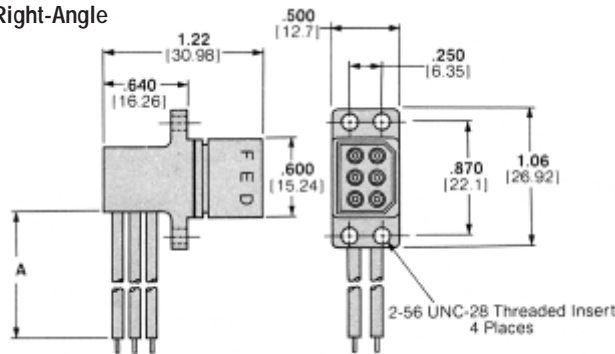


Flange can be placed elsewhere on housing. Consult Tyco Electronics.

Kit Part Number	Assembly Lead Length A	Assembly with 22 AWG Silicone	Assembly with 24 AWG TEFLON
867484-1	12 304.8	867473-1	867472-1 5-867472-1*
	24 609.6	867473-2 5-867473-2*	867472-2 5-867472-2*
	36 914.4	867473-3	867472-3

*RoHS compliant Part Number.

Right-Angle



Color Coding

Leads are color coded as tabulated here. Other color leads can be used in custom assemblies.

Kit Part Number	Assembly Lead Length A	Assembly with 22 AWG Silicone
866047-1	12 304.8	867477-1
	24 609.6	867477-2
	36 914.4	867477-3

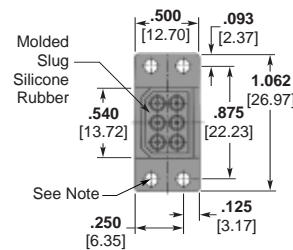
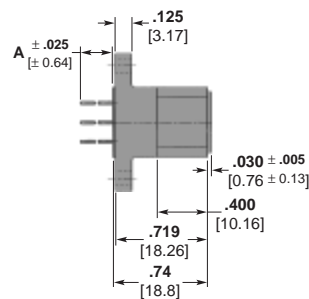
Pin No.	Wire Color
A	Brown
B	Red
C	Green
D	Blue
E	Black
F	White

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6-Pin, Subminiature Rectangular Connectors (Continued)

Plug Assemblies

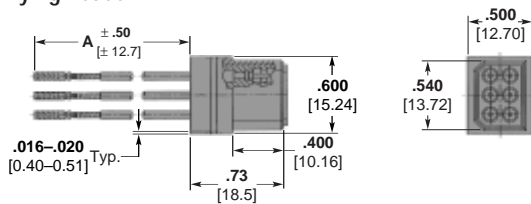
Posts Dia. .025 [0.64]



Dim. A	Part Number
.245 6.22	449810-1
.245 6.22	449810-2
.750 19.05	449810-3

Note: 449810-1 Dia. .106 [2.69], -2 and -3 inserts are #2-56.

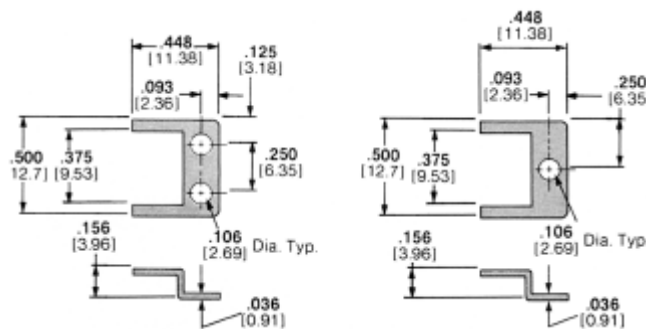
Plug Assemblies with Flying Leads



Dim. A	Lead Color	Letter Cavity	Part Number
4.00 101.6	Yellow	A	868021-1 5-868021-1*
4.00 101.6	Red	B	
4.00 101.6	Brown	C	
4.00 101.6	Blue	D	
4.00 101.6	Green	E	
13.00 330.2	Black	F	

*RoHS compliant Part Number.

Mounting Brackets

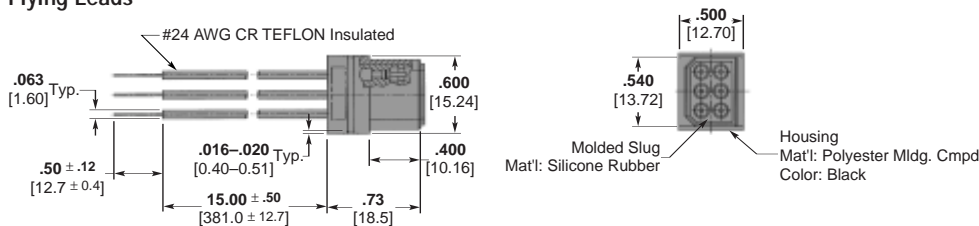


These brackets are for mounting commercial or military assemblies with slotted housings. They are not included in connector kits, nor with assemblies, and they must be ordered separately.

Part Number 861214-2

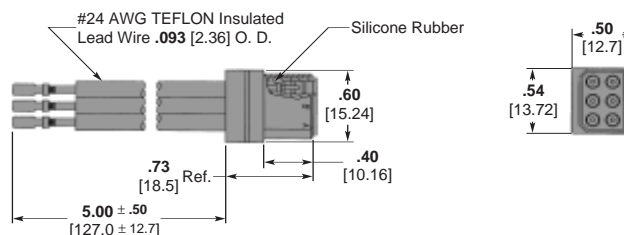
Part Number 861215-2

Flying Leads



Part Number 867761-1

Pin No.	Wire Color
A	Yellow
B	Red
C	Brown
D	Blue
E	Green
F	Black



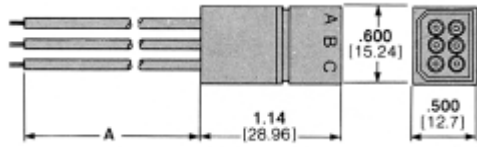
Part Number 445181-1

Socket No.	Wire Color
A	Black
B	Red
C	Brown
D	No Lead
E	Yellow
F	Green

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Receptacle Assemblies

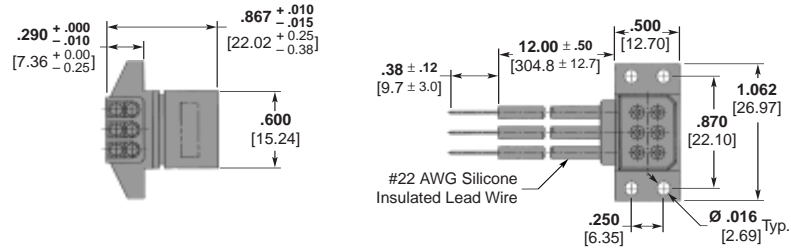
Slotted



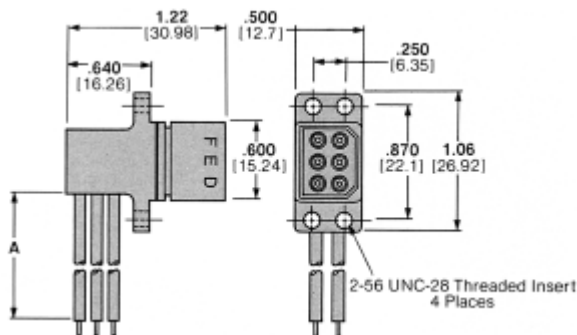
Assembly Lead Length A	Assembly with 22 AWG Silicone	Assembly with 24 AWG TEFLON
12 304.8	867471-1 5-867471-1*	867470-1
24 609.6	867471-2	867470-2
36 914.4	867471-3	867470-3

*RoHS compliant Part Number.

Right-Angle



Part Number 443832-1
RoHS Part Number 5-443832-1



Assembly Lead Length A	Assembly with 22 AWG Silicone	Assembly with 24 AWG TEFLON
12 304.8	867479-1 5-867479-1*	867478-1
24 609.6	867479-2 5-867479-2*	867478-2
36 914.4	867479-3	867478-3

*RoHS compliant Part Number.