

Series 700 Specifications and Connector Ordering

Mechanical Specifications

 Shell Zinc or aluminum diecast, nickel plated

150 μ inches (3.81 μ m) min.

Insulators Glass-filled polyester,

flammability UL94V-0

Pin Contacts Copper alloy, 15 μ inches

 $(0.38 \ \mu m)$ gold plated * over nickel

Socket Contacts Copper alloy, 30 μ inches

(0.76 µm) gold plated * over nickel

* Heavier gold plating available upon request. See pg. FC43: Connector Options

Terminations Gold flash for PCB mount and solder

cups. Solder dipped also available.

Ground Plane Brass, solder plated

Grounding

Springs Beryllium copper, tin plated per

MIL-T-10727

Operating

Temperature.....-55°C to +125°C

Capacitors Proprietary barium titanate

ceramic formulations

Electrical Specifications

Current Rating 5 Amps

R.F. Current

Rating.......... 0.3 Amps

Contact

Resistance 10 milliohms maximum

UL Recognized.... Under category of communication

circuit accessories, File #E149046

Inductance on

PI Filters ~ 860 nH between 100 kHz and 1 MHz

Solder cups accept up to a 20 gauge wire.

Note:

For additional mechanical, electrical, and environmental specifications, refer to page FC79.

Ordering Your Connector

STEP 1: SELECTING THE FILTER

- Using the insert loss graphs on page FC20 determine which filters provide the required attenuation at the troublesome frequency, while not affecting the signal frequency by more than 3 to 6 dB.
- Choose the filter type, either feed-through capacitor or Pi. The Pi is generally considered better due to its superior high frequency performance and steeper curve. The feed-through capacitor is lower cost.
- Select capacitance value.
- Note the Spectrum letter designation for the filter chosen from the table on page FC20.

STEP 2: SELECTING THE CONNECTOR

- Turn to the appropriate size section. (9, 15, 25, 37, 50)
- Choose either pin contacts (plug) or socket contacts (receptacle).
- Choose the required termination type.
- From the table on the appropriate connector page, using the filter letter designation chosen in step 1 above, select the part number.

STEP 3: SPECIFYING OPTIONS

- Refer to page FC43 for special options including heavy gold plating, 4-40 mounting threads, grounding brackets, hardware, and others.
- Most options are available within the standard lead times.
- Some options require a part number suffix, while other combinations may require factory assistance for part number assignment. If a suffix is shown, add it to your selected part number. If more than one option is needed, consult with factory for part number assignment.



Series 700 Socket Contact & Pin/Socket Adapter



Solderless Wire Wrap

	r							
Spectrum Part Number Select one				EMI Filter		.540 (16 26)		
	.500	.375	L .250	Filter Desig.**	Cap. Value	(16.26) (19.23) (19.23) (19.23) (19.23) (19.23) (19.23) (19.23) (19.23)		
56-703	-006	-016	-011	A	310 pF Pi	984 .308 .120 ±.005 DIA. HOLES (3.05 ± 0.13 DIA. HOLES)		
56-703	-007	-017	-012	B	1000 pF C			
56-703	-008	-018	-013	C	1000 pF Pi			
56-703	-009	-019	-014	D	5000 pF C	Mating Face		
* 56-703	-010	-020	* -015	E	4000 pF Pi			
56-703	-031	-028	-025	F	830 pF C			
56-703	-032	-029	-026	J	100 pF Pi	Side View		
56-703	-033	-030	-027	K	2500 pF Pi			
56-703	-039	-038	-037	N	375 pF C			

Solder Cup Termination

Spectrum	E	MI Filter	1.213 (30.81) (16.26) (19.23) (19.23) (19.23) (19.23) (19.23) (19.23)		
Part Number	Filter Designation**	Cap. Value			
* 56-706-001	Α	310 pF Pi	\ \(\text{\tinc{\tint{\text{\tinit}\\ \text{\texi}\text{\text{\texit{\tex{\text{\text{\text{\text{\text{\texi}\text{\texit{\text{\ti		
56-706-002	В	1000 pF C	984 308 (24.99) (7.82) .120±.005 DIA. HOLES		
* 56-706-003	C	1000 pF Pi	10.05 - 0.40 DIA LIOLEO		
56-706-004	D	5000 pF C	Matting Face		
* 56-706-005	E	4000 pF Pi	SOLDER		
56-706-006	F	830 pF C	.050 CUP		
56-706-007	J	100 pF Pi			
* 56-706-008	K	2500 pF Pi	Side View .042 MIN. I.D.		
56-706-009	N	375 pF C	51de View 5.575 (1.07) .065 MAX. O.D. (1.65)		
56-706-017	L	500 pF C	.125 (3.18)0 (1.00)		

Pin/Socket Adapter

Spectrum	EI	MI Filter	1.213 (30.81) .666 (30.81)		
Part Number	Filter Designation**	Cap. Value	(16.26) 1 (16.92) 1 (16.92) 494 (12.55)		
* 56-705-001	А	310 pF Pi			
56-705-002	В	1000 pF C	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
* 56-705-003 €	C	1000 pF Pi	.120 ±.005 DIA. HOLES (3.05±.13 DIA. HOLES)		
56-705-004	D	5000 pF C	Socket Face → ←.520 (13.21) Pin Face		
* 56-705-005 €	E	4000 pF Pi	.050 (1.27) TYP. → .243 (6.17)		
* 56-705-008	F	830 pF C			
56-705-009	J	100 pF Pi			
56-705-010	K	2500 pF Pi	Side View		
56-705-026	N	375 pF C			
56-705-049	L	500 pF C	.238 (6.05) → -		

- € Also available through API's authorized European distributors/agents.
- * May be available from distributor stock.
 ** See page FC20 for filter performance.
- ** See page FC20 for filter performance.

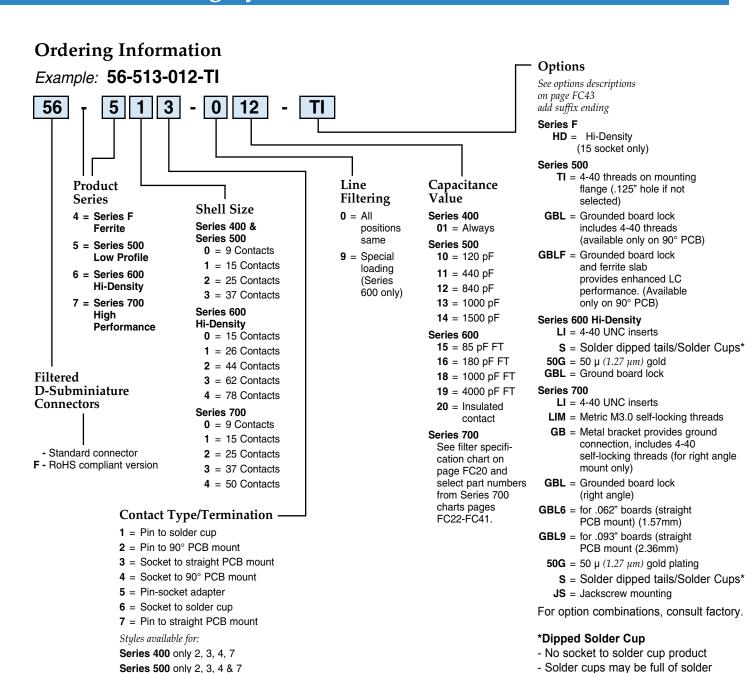
 Standard Tolerance = ±.005 except where noted, ◊ = ±.015

Dimensions in inches (mm)

API TECHNOLOGIES • 8061 Avonia Rd. • Fairview, PA 16415 • Ph: 814-474-1571 • Fax: 814-474-3110 • eis.apitech.com
API TECHNOLOGIES' SPECTRUM CONTROL GmbH • Hansastrasse 6 • 91126 Schwabach, Germany • Phone: (49)-9122-795-0 • Fax: (49)-9122-795-58



D-Subminiature Part Numbering System



See charts pages FC22-FC41.

To assist your efforts in selecting the correct Filtered Connector to meet your needs, we have developed a part numbering system. All of the standard products are shown in their respective catalog pages.

Note: 1 can be Pin to solder cup or Pin to PCB for Series 700.

Series 600 only 1, 2, 3, 4, 5 Series 700 1 thru 7

Part number **56-513-012-TI** represents a Series 500 connector with 15 contacts in a socket to straight PCB mount configuration. All connector positions have a capacitance value of 840 pF and there are 4-40 threads on mounting flange.

- Standard part: Sn60 or equivalent

- RoHS Part: Sn96 or equivalent

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