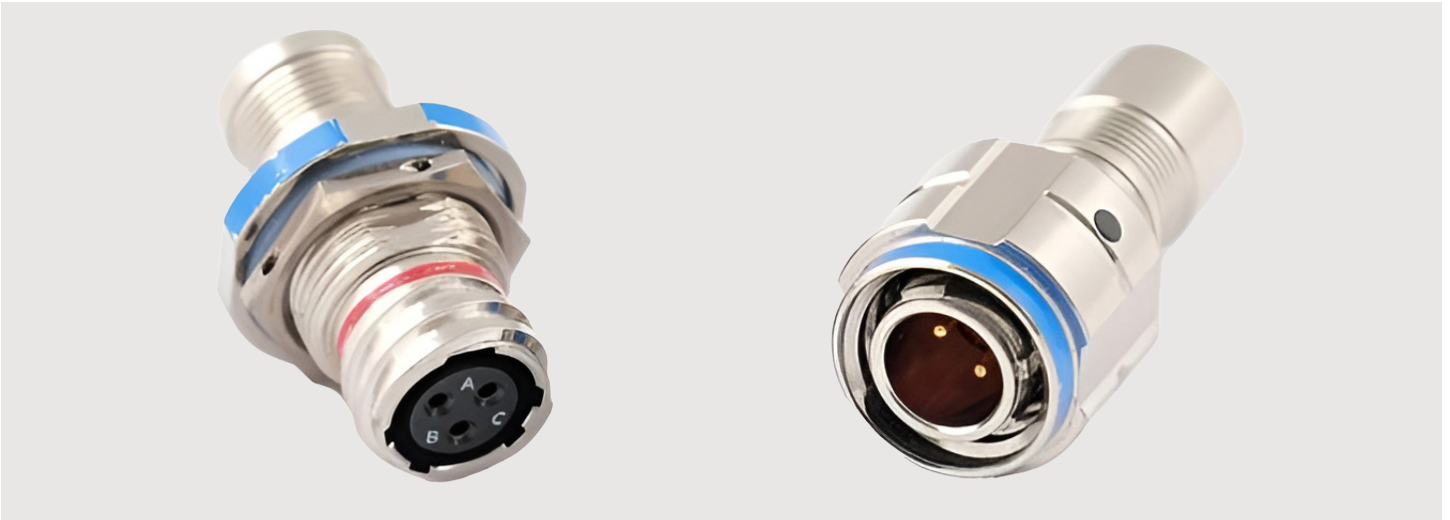


387TV – SIZE 7 38999

Double-start thread miniature connector derived from MIL-DTL-38999 Series III

PDS - 386



A miniature 38999 solution for video, Ethernet, data transmission, and more.

Amphenol's 387TV Size 7 Connectors are derived from MIL-DTL-38999 Series III and are dedicated to applications where miniature size and low weight are critical. This range can accommodate size 8 high-speed contacts (Coax, Twinax, Quadrax, 1 Gb & 10 Gb Octonet) and any 38999 size 9 contacts arrangement, as well as fiber optics.

FEATURES AND BENEFITS:

- The smallest connector derived from MIL-DTL-38999 series III*
- Single-way grounded version & multi-pin insert arrangements
- Data, high-speed contacts and Fiber optic
- Ruggedized product with resistance to shocks & vibrations
- Several materials et plating's available, with RoHS & REACH compliant versions
- Several receptacles style: Oval flange, Jam nut
- Shells always with an integrated back shell for crimp versions
- Multi-pin versions use the same contacts and inserts as size 9 38999 Series III
- Many versions available: Integrated backshell, stand-off (double flange), reduced flange

APPLICATIONS:

- Battlefield Communication C5ISR
- Ground Vehicles
- Military Avionics
- Commercial Air
- Navy

ENVIRONMENTAL & ELECTRICAL CHARACTERISTICS:

- 500 mating cycles
- -65 °C (-85 °F) to +175 °C (347 °F) or 200 °C (392 °F) depending on material & plating
- From 48 to 500 hours of salt spray depending on material & plating
- IPX7 when mated and fully cabled
- Shell-to-shell conductivity from 1 to 10 mΩ depending on materials & platings
- Shell-to-shell bottoming, grounding fingers on the plug shell
- Insulation resistance at Ambient temperatures: 5.103 mΩ
- Contact rating from 3 to 23 Amps

CONTACT OPTIONS:

- 1 grounded version & 4 multi-pin arrangements
- Contacts size 23 HD to 8
- Signal, Power, High-speed versions (Coax, Twinax, Quadrax, Octonet...), and optical termini
- Crimp & PC-Tails (gold & tinned versions)

BUILD A PART NUMBER: 387TV CRIMP CONNECTORS

1. Series	2. Shell Style	3. Crimp Contacts	4. Contact Type	5. Material and Plating	6. Contact Arrangement	7. Contact Gender	8. Keying	9. With or without Contact	10. Deviation
387TV	07	R	CQ	W	07-05	P	-	-	F312

1. Series	
387TV	Crimp Connectors

3. Crimp Contacts	
R	For W, F, K, S and B Plating
Blank	For ZN & TZ Plating

4. Contact Type	
GC	Coax 50Ω - 07-05 G only
GM	Coax 75Ω for RG179 cable type - 07-05 G only
GV	Coax 75Ω for PIC V75268 cable type - 07-05 G only
GT	Twinax - 07-05 G only
GQ	Quadrx 100Ω - 07-05 G only
GO	Octonet-07-05 G only
G	Ground Plane without contact - Mandatory for 07-05 G
M	Coax 75Ω #12-07-12 contact arrangement only
Blank	Standard signal Contact (07-09, 07-12, 07-35, 07-98)

2. Shell Style			
	Shell Type	Associated Materials and Plating	Temperature
06	Plug with integrated Backshell	W, ZN, ZR	+175°C
S06*		F, K, S, B	+200°C*
07	Jam Nut Receptacle with Integrated Backshell	W, ZN, ZR	+175°C
S07*		F, K, S, B	+200°C*
03	Oval Flange Receptacle with Integrated Backshell	W, ZN, ZR	+175°C
S03*		F, K, S, B	+200°C*

*(S) Stand for 200°C compatibility. Omit for High-Density inserts HD, inserts with Quadrx contacts and differential Twinax contacts Q are +175°C maxi compatible.

5. Material and Plating		
	Shell Material	Shell Finish
W	Aluminum	Olive Drab Cadmium
F		Nickel 
ZN		Black Zinc Nickel 
ZR		Black Zinc Nickel CRVI Free 

*Copper aluminum alloy For other materials, please consult us

6. Contact Arrangement			
Layout		Contact Size	Total Contacts
	07-05 G	8	1
	07-09 HD	23	9
	07-12	12	1
	07-35	22D	6
	07-98	20	3

7. Contact Gender	
P	Pin (500 cycles) - 07-05 G Mandatory for Receptacles
S	Socket (500 cycles) - 07-05 G Mandatory for Plugs

8. Keying	
Blank	For Normal
A	
B	
C	
D	

9. With or Without Contact	
Blank	Delivered with contacts
LC	Delivered without contacts

10. Deviation		
Deviation	Description	Shell Type Compatibility
F312	Reduced Flange Receptacle	07 / S07
F506	Oval Flange equipped with Clinch Nuts	03 / S03*

For other deviations. Please consult us.
*Oval Flange receptacle equipped with clinch nuts are not available in Black Zinc Nickel, Bronze, or Stainless Steel

BUILD A PART NUMBER: 387TV PCB RECEPTACLES

1. Series	2. Shell Style	3. Contact Type	4. Material and Plating	5. PC Tail Contacts	6. Contact Arrangement	7. Contact Gender	8. Keying	9. Deviation
387TV	07	M	c	W	07-05	P	-	F312

1. Series

387TV	Crimp Connectors
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3. Contact Type

GC	Coax 50Ω - 07-05 G only
GM	Coax 75Ω for RG179 Cable Type - 07-05 G only
GT	Twinax - 07-05 G only
GQ	Quadrx 100Ω - 07-05 G only
GO	Octonet-07-05 G only
M	Coax 75Ω #12 • 07-12 Contact Arrangement Only
Blank	Standard Signal Contact (07-09, 07-12, 07-12, 07-35, 07-98)

2. Shell Style

	Shell Type	Associated Materials and Plating	Temperature
07	Jam Nut Receptacle	W, ZN, ZR	+175°C
S07*		F, K, S, B	+200°C*
03	Oval Flange Receptacle	W, ZN, ZR	+175°C
S03*		F, K, S, B	+200°C*

*For Connectors with Quadrx and differential Twinax contacts please omit the (S) corresponding to 200°C compatibility. Quadrx contacts and differential Twinax contacts are +175°C maxi compatible.

4. Material and Plating

	Shell Material	Shell Finish
W	Aluminum	Olive Drab Cadmium
F		Nickel 
ZN		Black Zinc Nickel 
ZR		Black Zinc Nickel CRVI Free 

*Copper aluminum alloy for other materials, please consult us

5. PC Tail Contacts

CI	Standard Length
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For other length, please consult us

6. Contact Arrangement

Layout		Contact Size	Total Contacts
	07-05 G	8	1
	07-09 HD	23	9
	07-12	12	1
	07-35	22D	6
	07-98	20	3

7. Contact Gender

P	Pin (500 cycles) - 07-05 G Mandatory for Receptacles
S	Socket (500 cycles)

8. Keying

Blank	For Normal
A	
B	
C	
D	

For other deviations. Please consult us.
*Oval Flange receptacle equipped with clinch nuts are not available in Black Zinc Nickel, Bronze, or Stainless Steel

9. Deviation

Shell Style	PC Tail Finish / Tinning				Shell Type Compatibility
	Tin Lead	Silver Tin	Silber Tin Copper	Gold	
Standard	F404	F404LF	F404LFC	Blank	All
Stand-off Reduced Flange	F059	F059LF	F059LFC	F059H	07 / S07
Oval Flange with Clinch Nuts	F506G	F506GLF	F506LFC	F506	03 / S03*

