

# Video, Ethernet, Data transmission...

# ...a solution to every need.

Size 7 connectors dedicated to size 8 high speed contacts (Coax, Twinax, Quadrax, 1Gb Octomax, 10Gb coming soon) and fiber optic.

Copper contacts insert arrangement with a unique size 8 cavity available with:

75Ω Coax	Concentric Twinax	Quadrax contacts	Octomax 1G26	
HD-SDI / 3G-SDI Protocoles	Data bus BUS1553	Ethernet contact Cat.5E ISO11801 Channel class D	1Gb Ethernet contact	



Fiber optic Size 7 MT, TVOP size 7 and Double Luxbeam Q8D.

#### Main features

#### Available shells:

- Plugs (always delivered with integrated backshells).
- Crimp receptacles (always delivered with integrated backshell).
  - Jam nut receptacle (Standard and reduced flange F312 available)
  - Oval receptacle
- PC Tail receptacles
  - Jam nut receptacle (Standard, reduced flange F312, Stand-off reduced flange F059)
  - Oval receptacle

Plugs always delivered with socket contacts and receptacles with pin contacts.

- IP68: 48hours under 2 meters of water for jam nut receptacle and mated plug. Use a heat shrink boot and adhesive between the plug and the cable.

## **Markets & Applications**



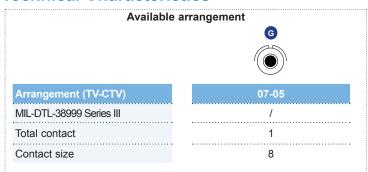








### **Technical Characteristics**



G Grounded plane connector

Matches the performances of MIL-DTL-38999 Series III connector type (EN3645) in terms of:				
Temperature				
Salt Spray resistance	Refer to the "Materials and platings" section for all details			
Shocks and vibrations				

Differs from standard MIL-DT	Differs from standard MIL-DTL-38999 serie III				
Thread coupling	Double start instead of triple start				
Shell style for crimp versions (plug and receptacle)	Always with integrated backshell				
Lightning strike	Composite 38999 level (MIL-DTL-38999 class M)				
EMI performances	82dB min at 100MHz (vs 90dB min for 38999 standard) 65dB min at 1000MHz (vs 85dB for 38999 standard)				

#### **Contacts**

As a reminder, pin contacts are always for receptacles and socket contacts for plugs.

	Pin cor	ntacts	Socket contacts	Piggy back grommet
	Crimp	PC tail	Crimp only	for crimp contacts
Coax 75Ω (PIC V75268 cable type)*	603578	-	603748	
Coax 75Ω (RG 179 cable type)	603838	-	603828	000470
Coax 75Ω (PC Tail)	-	612008	-	900472
Twinax	077517	600797	077516	
Quadrax 100Ω	603330	900210	603338	000474
Octomax	603072	603471	603069	300471

<sup>\*</sup> Also compatible with PIC V76261, PIC73263 and EMTQ TFLX 125-075-01 cable types.

## **Materials and platings**

	Shell materials	Shell finishes	Temperature (max)	Salt spray (hours)
W		Olive drab cadmium	+175°C	500
F	Aluminium	Nickel ✓	+200°C*	48
ZN		Black zinc nickel ✓	+175°C	300
K	Ctairless steel	Passivation ✓	+200°C*	500
S	Staniless steer	Nickel ✓	+200°C*	500
В	Marine Bronze* ✓	-	+200°C*	500

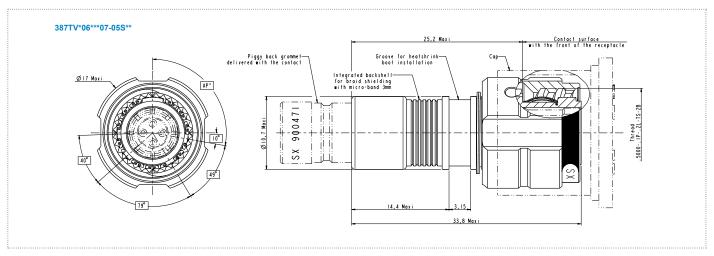
<sup>\*</sup>Copper aluminum alloy

 $<sup>\</sup>begin{tabular}{ll} $\checkmark$ RoHS compliant \\ \end{tabular}$ 

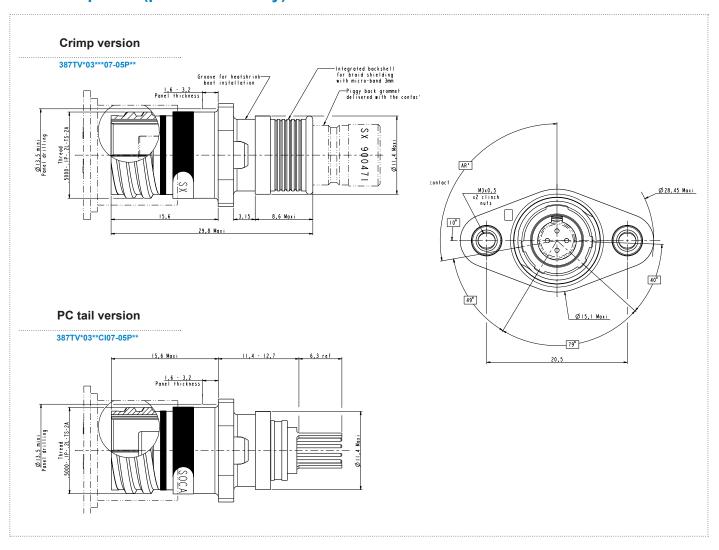
<sup>\*</sup> For connectors with Quadrax and differential Twinax contacts please omit the 'S' corresponding to 200°C compatibility. Quadrax contacts and differential Twinax contacts are +175°C maxi compatible.

### **Overall dimensions**

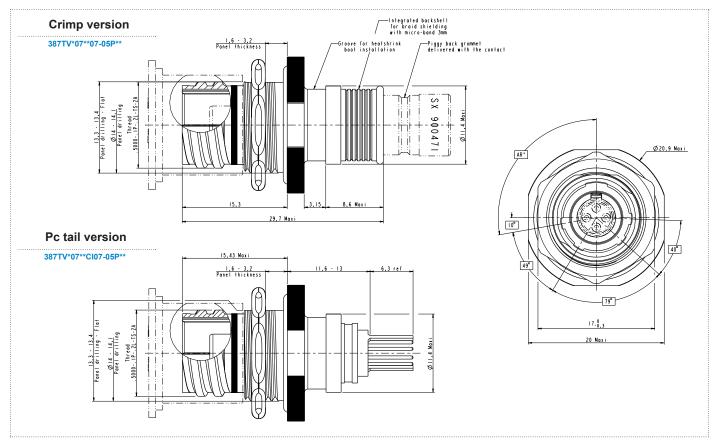
## Plug (socket contact only)



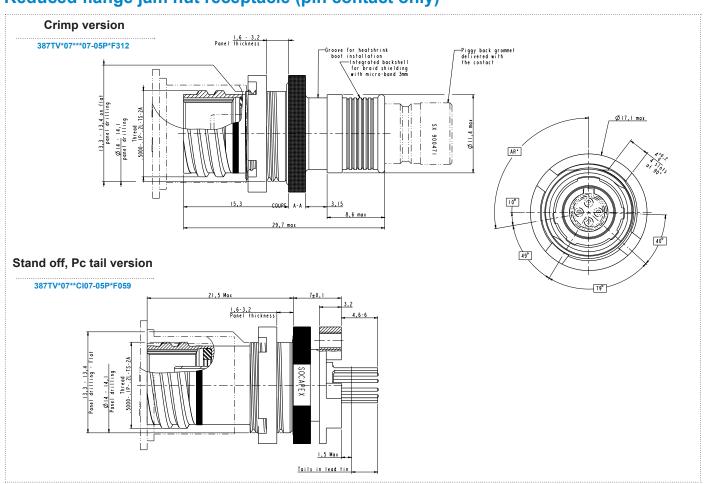
## Oval receptacle (pin contact only)



## Jam nut receptacle (pin contact only)

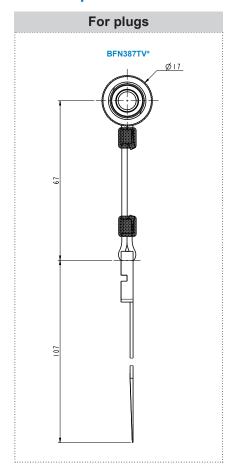


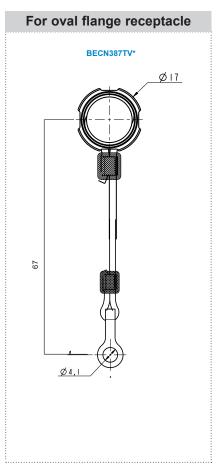
## Reduced flange jam nut receptacle (pin contact only)

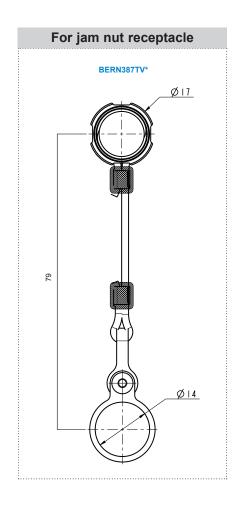


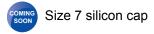
### **Accessories**

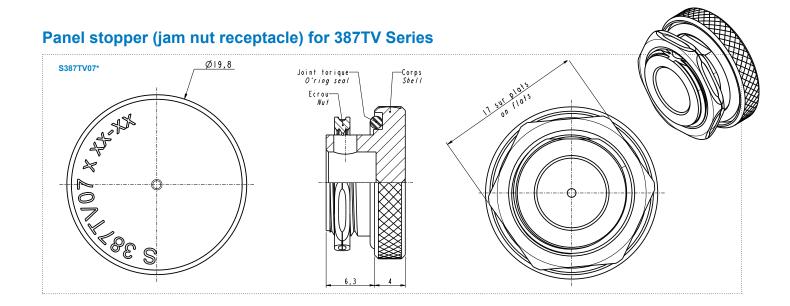
### **Metal Caps Size 7 for 387TV Series**



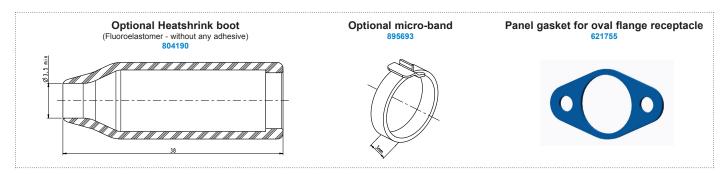




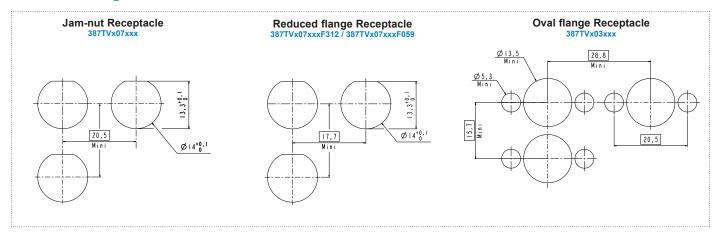




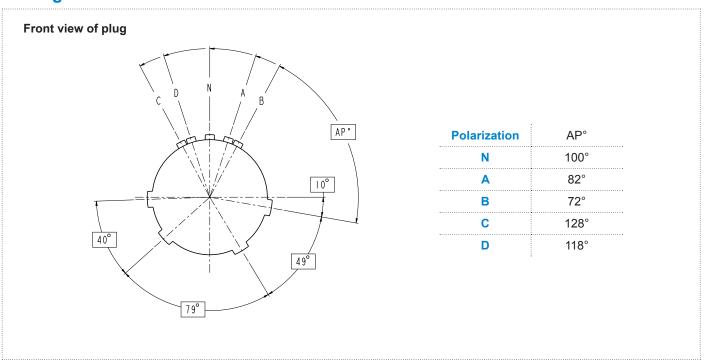
#### Other accessories



## **Panel Drilling**



# Coding







## HOW TO ORDER SIZE 7 WITH CRIMP CONTACTS - AMPHENOL DESIGNATION

	1.	2.	3.	4.	5.	6.	7.	8.	9.
Series	Shell type	Crimp contacts	Contact type	Material and platings	Contact arrangement	Contact gender	Keying	With or without contact	Deviation
387TV	07	R	GQ	w	07-05	P	-	-	F312

1. Shell type					
	Shell type	Associated materials and plating	Temperature		
06	Plugs with integrated	W, ZN	+175°C		
S06*	backshells	F, K, S, B	+200°C *		
07	Jam nut receptacles with	W, ZN	+175°C		
S07*	integrated backshells	F, K, S, B	+200°C *		
03	Oval flange receptacles	W	+175°C		
S03*	with integrated backshells	F, K, S, B	+200°C *		

<sup>\*</sup> For connectors with Quadrax and differential Twinax contacts please omit the 'S' corresponding to 200°C compatibility. Quadrax contacts and differential Twinax contacts are +175°C maxi compatible.

2. Cri	2. Crimp contacts				
R	For W, F, K, S and B platings				
Blank	For ZN plating				

3. Cor	3. Contact type			
GC	Coax 75Ω			
GT	Twinax			
GQ	Quadrax 100Ω			
GO	Octomax			

. Material and platings				
	Shell material	Shell finish		
w		Olive drab cadmium		
F	Aluminum	Nickel ✓		
ZN		Black zinc nickel ✓		
K	Stainless steel	Passivated ✓		
S	Stainless steel	Nickel ✓		
В	Marine bronze* ✓	-		

<sup>\*</sup> Copper aluminum alloy

5. Conta	act arrangement
07-05	A unique arrangement available with a monocavity size 8 for high speed contacts or fiber optic (for fiber optic how to order, please consult us).

6. Contact gender				
P	Pin (500 cycles) for receptacles only			
S	Socket (500 cycles) for plugs only			

7. Keying					
Blank (for normal)	A	В	С	D	

8. With c	ontact
Blank	Connector delivered with contacts

9. Deviation				
Deviation	Description	Shell type compatibility		
F312	Reduced flange receptacles with a standard nut	07/S07		

For other deviations, please consult us

## HOW TO ORDER SIZE 7 WITHOUT CRIMP CONTACTS - AMPHENOL DESIGNATION

	1.	2.	3.	4.	5.	6.	7.	8.
Series	Shell type	Crimp contacts	Material and platings	Contact arrangement	Contact gender	Keying	Without contact	Deviation
387TV	07	RG	W	07-05	P	-	LC	F312

1. Shell type					
	Shell type	Associated materials and plating	Temperature		
06	Plugs with integrated	W, ZN	+175°C		
S06*	backshells	F, K, S, B	+200°C *		
07	Jam nut receptacles with	W, ZN	+175°C		
S07*	integrated backshells	F, K, S, B	+200°C *		
03	Oval flange receptacles	W	+175°C		
S03*	with integrated backshells	F, K, S, B	+200°C *		

<sup>\*</sup> For connectors with Quadrax and differential Twinax contacts please omit the 'S' corresponding to 200°C compatibility. Quadrax contacts and differential Twinax contacts are +175°C maxi compatible.

2. Crii	mp contacts
RG	For W, F, K, S and B platings
G	For ZN plating

3. Ma	3. Material and platings				
	Shell material	Shell finish			
W		Olive drab cadmium			
F	Aluminum	Nickel ✓			
ZN		Black zinc nickel ✓			
K	Stainless steel	Passivated ✓			
S	Starriess steer	Nickel ✓			
В	Marine bronze* ✓	-			

<sup>\*</sup> Copper aluminum alloy

4. Conta	ct arrangement
	A unique arrangement available with a monocavity size 8 for high speed
07-05	contacts or fiber optic
	(for fiber optic how to order, please consult us).

5. Conta	5. Contact gender				
P	Pin (500 cycles) for receptacles only				
S	Socket (500 cycles) for plugs only				

6. Keying					
Blank (for normal)	A	В	С	D	

7. Withou	t contact
	Connector delivered without contacts

8. Deviation						
Deviation	Description	Shell type compatibility				
F312	Reduced flange receptacles with a standard nut	07/S07				

For other deviations, please consult us

### HOW TO ORDER SIZE 7 WITH PC TAIL CONTACTS - AMPHENOL DESIGNATION

	1.	2.	3.	4.	5.	6.	7.	8.
Series	Shell type	Contact type	Material and platings	PC Tail contacts	Contact arrangement	Contact gender	Keying	Deviation
 387TV	07	GQ	W	CI	07-05	P	-	F059

1. Shell type (receptacles only)						
	Shell type	Associated materials and plating	Temperature			
07	Jam nut receptacles	W, ZN	+175°C			
S07*	Jani nut receptacies	F, K, S, B	+200°C *			
03	Oval flange	W	+175°C			
S03*	receptacles	F, K, S, B	+200°C *			

<sup>\*</sup> For connectors with Quadrax and differential Twinax contacts please omit the 'S' corresponding to 200°C compatibility. Quadrax contacts and differential Twinax contacts are +175°C maxi compatible.

2. Co	ntact type
GC	Coax 75Ω
GT	Twinax
GQ	Quadrax 100Ω
GO	Octomax

3. Ma	3. Material and platings					
	Shell material	Shell finish				
W		Olive drab cadmium				
F	Aluminum	Nickel ✓				
ZN		Black zinc nickel ✓				
K	Stainless steel	Passivated ~				
S	Stairliess steel	Nickel ✓				
В	Marine bronze* ✓	-				

<sup>\*</sup> Copper aluminum alloy

#### 4. PC Tail contacts

CI Standard length

For other length, please consult us

#### 5. Contact arrangement

07-05

A unique arrangement available with a monocavity size 8 for high speed contacts or fiber optic (for fiber optic how to order. please consult us)

#### 6. Contact gender

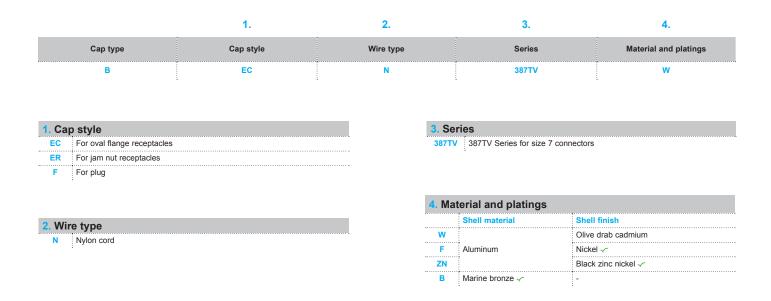
Pin (500 cycles) - always delivered with a pin contact

7. Keying					
Blank (for normal)	Α	В	C	D	

8. Deviation					
		PC Ta			
Shell style	Tin lead	Silver tin	Silver tin copper	Gold	Shell type compatibility
Standard	F404	F404LF 🗸	F404LFC <	Blank ✓	All
Reduced flange	F312	F312LF ✓	F312LFC ✓	F312H ✓	
Stand-off Reduced flange	F059	F059LF 🗸	F059LFC 🗸	F059H ✓	07 / S07

For other deviation, please consult us

### **HOW TO ORDER METAL CAP FOR 387TV SERIES (SIZE 7 CONNECTORS)**



## **HOW TO ORDER PANEL STOPPER (JAM NUT RECEPTACLE) FOR 387TV SERIES**

	1.		2.	3.
Cap type	Series	,	Cap style	Material and platings
S	387TV		07	w
1. Series		3. Ma	terial and platings	s
387TV 387TV Series for size 7 connectors			Shell material	Shell finish
:		w		Olive drab cadmium
		F	Aluminum	Nickel ✓
		ZN		Black zinc nickel ✓
Cap style For jam nut receptacles			:	

✓ RoHS compliant



