

# TPS SERIES



**SPECIALTY  
CONNECTOR CO., INC.**

The TPS series was designed for use in military communications and surveillance systems where space and weight limitations are critical. They are small size, rugged, three pin bayonet locking connectors with a nominal impedance of 50 ohms. They are covered by specifications MIL-C-55235. They operate satisfactorially up to 10 GHZ and will withstand severe environmental conditions.

**MATERIALS:** Brass per QQ-B-626 composition 22½ HD.  
Beryllium copper per QQ-C-530 heat treated to condition HT.  
Teflon per L-P-503  
Rubber per ZZ-R-765

**FINISHES:** Silver plating per QQ-S-365  
Gold plating per MIL-G-45204  
Proprietary bright nickel (IP23)

**ELECTRICAL:** Impedance 50 ohms  
Insulation resistance: 50 Megohms  
Dielectric withstanding voltage: 1000 VRMS  
Contact resistance: Center 2.5 MILLIOHMS max.  
Outer 3.0 MILLIOHMS max.  
Frequency range: to 10 GHZ

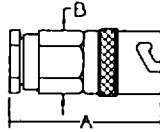
**ENVIRONMENTAL:** Temperature range: -65° to + 165°C  
Salt spray test per MIL-STD-202 (Method 101)  
Moisture resistance test per MIL-STD-202 (Method 106)  
Vibration MIL-STD-202 (Method 204)  
Shock: MIL-STD-202 (Method 213)  
Thermal shock: MIL-STD-202 (Method 107)

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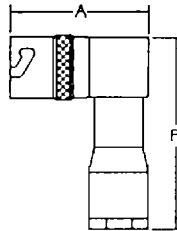
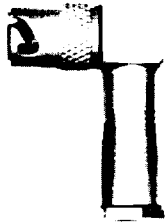
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## TPS PLUG



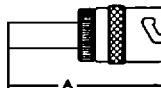
S/C Part No.	UG-U No.	Cable RG-U	Dimension		Engr. Data	Assy. Inst.
			A	B		
23P102-9		174	15/16	11/32	Straight Cut Style	AI-12
23P104-1	UG-1366/U	58C/U	15/16	11/32		AI-23
23P105-1	UG-1412/U	55,223	15/16	11/32	Gold Finish	AI-23
23P107-1		188	15/16	11/32		AI-54
23P107-2		195	15/16	11/32		AI-54
23P110-1		59	13/64	7/16	Straight Cut Style	AI-12

## TPS PLUG — RIGHT ANGLE



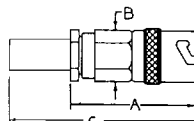
S/C Part No.	UG-U No.	Cable RG-U	Dimension		Engr. Data	Assy. Inst.
			A	B		
23P103-1		55,223	53/64	1-3/16	Gold Finish	AI-23
23P106-1		58C/U	53/64	1-3/16		AI-23
23P109-1		188	53/64	1-3/16	Gold Finish	AI-54
23P109-2		195	53/64	1-3/16	Gold Finish	AI-54

## TPS PLUG — SHORT CRIMP



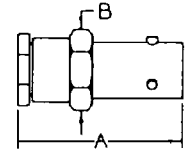
S/C Part No.	Cable RG-U	Crimp Tool	Dimension	Engr. Data	Assy. Inst.
			A		
23P111-1	174,187,188	.128 HEX	1-7/64		AI-26
23P111-2	58	.213 HEX	1-7/64		AI-26

## TPS PLUG — LONG CRIMP



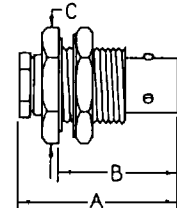
S/C Part No.	Cable RG-U	Crimp Tool	Dimension			Engr. Data
			A	B	C	
23P116-1	55,223	.213 HEX	15/16	11/32	1-7/16	Captive Contact

## TPS JACK



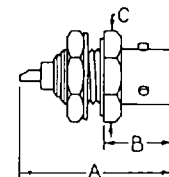
S/C Part No.	UG-U No.	Cable RG-U	Dimension		Engr. Data	Assy. Inst.
			A	B		
23J101-1	UG-1415/U	58C/U	15/16	3/8		AI-23
23J101-2	UG-1416/U	55,223	15/16	3/8		AI-23

## TPS JACK — SINGLE HOLE MOUNT



S/C Part No.	UG-U No.	Cable RG-U	Dimension			Mtg. Hole	Engr. Data	Assy. Inst.
			A	B	C			
23JS102-1		59,62	1-7/64	11/16	9/16	D5		
23JS103-1	UG-1364/U	58C/U	7/8	11/16	9/16	D5		AI-23
23JS104-1	UG-1413/U	55,223	7/8	11/16	9/16	D5		AI-23
23JS105-1		188	59/64	11/16	9/16	D5	Gold Finish	AI-54
23JS105-2		195	59/64	11/16	9/16	D5	Gold Finish	AI-54
23JS107-1		122	59/64	11/16	9/16	D5		AI-23

## TPS JACK RECEPTACLE — SINGLE HOLE MOUNT



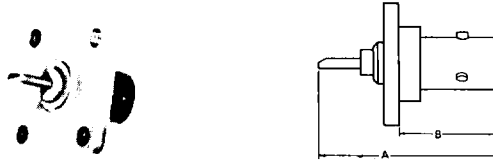
S/C Part No.	UG-U No.	Dimension			Mtg. Hole	Engr. Data
		A	B	C		
23JR100-1	UG-1443/U	1	13/32	7/16	D9	
23JR102-1		7/8	13/32	7/16	D9	
23JR103-2	UG-1365/U	1-7/64	13/32	7/16	D9	
23JR103-3		1-3/32	27/64	7/16	D9	Gold Finish
23JR104-1		1-7/64	11/16	9/16	D5	Reverse Mount - Gold
23JR109-1		51/64	37/64	9/16	D5	Reverse Mount

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## TPS JACK RECEPTACLE — FLANGE MOUNT



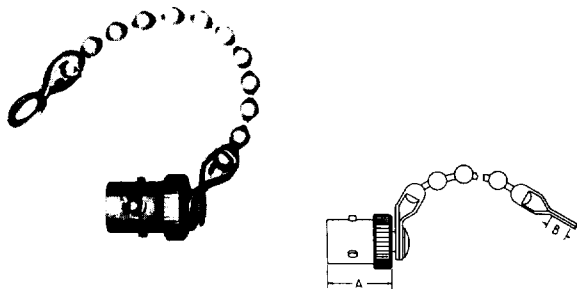
S/C Part No.	Dimension		Mtg. Plate	Engr. Data
	A	B		
23JR105-1	3.4	25.64	4A	Gold Finish
23JR110-1	1	35.64	3A	
23JR111-1	23.32	5.16	3A	

## TPS ADAPTER — PLUG-PLUG



S/C Part No.	Dimension	Engr. Data
	A	
23A101-1	1-5/32	Gold Finish

## TPS JACK — CAP



S/C Part No.	UG-/U No.	Dimension		Engr. Data
		A	B	
23JC100-1	CW-768/U	7/16	.144	2-1/2" Chain

## TPS PLUG — CAP



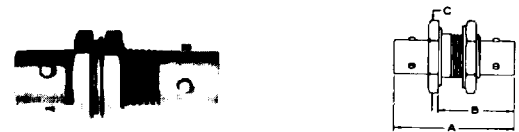
S/C Part No.	Dimension		Engr. Data
	A	B	
23PC100-1	43/64		Shorting Plug - No Chain
23PC101-2	31/64	144	2-1/2" Bead Chain

## TPS ADAPTER — JACK-JACK



S/C Part No.	Dimension	Engr. Data
	A	
23A102-1	1-3/32	Gold Finish

## TPS ADAPTER — JACK-JACK — SINGLE HOLE MOUNT



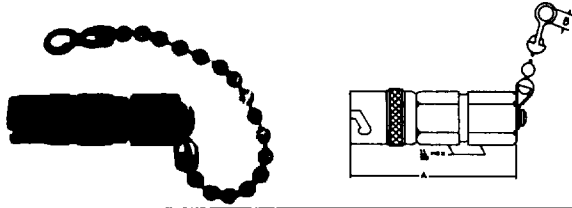
S/C Part No.	Dimension			Mtg. Hole	Engr. Data
	A	B	C		
23AS100-2	1-3/32	11/16	9/16 HEX	D5	
23AS101-1	1-13/64	13/16	9/16	D5	UG-1367/U

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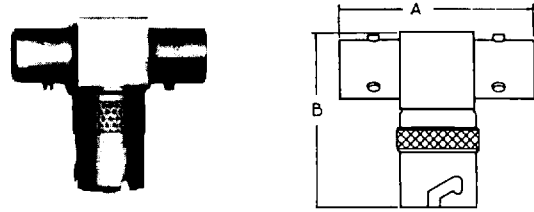
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## TPS PLUG TERMINATION



S/C Part No.	Resistor 5%	Dimension		Engr. Data
		A	B	
23PO100-1	51 OHM 1/2 WATT	1-13/64	.144	3-1/2" Chain
23PO100-2	75 OHM 1/2 WATT	1-13/64	.144	3-1/2" Chain
23PO100-3	91 OHM 1/2 WATT	1-13/64	.144	3-1/2" Chain

## TPS ADAPTER — TEE



S/C Part No.	Dimension		Engr. Data
	A	B	
23AT101-1	63/64	7/8	Gold Finish