

Interconnect Solutions Cannon, VEAM, BIW

Defining Innovative aviation, military, and industrial circulars and the DC-1 over 70 years ago



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Introduction

Α

The miniature circular connectors series KPT and KPSE from ITT Cannon conform to meet the performance specification of MIL-C-26482 with three point bayonet coupling and five-keyway polarization. They offer general purpose solder connectors and high performance crimp connectors. The broad product range provides the most complete family of connectors that conform to Mil-C-26482 and VG95328 performance specifications.

The versatility of these connectors has been proven by their usage in general as well as in high performance environmental applications. In addition to the basic series presented in this section, connectors for special applications are available. They include corrosion resistant types, filter connectors for electromagnetic compatibility, and non-outgassing radiation resistant versions.

All connectors conform to the above mentioned performance specifications and are fully intermateable and accept a wide range of interchangeable accessories. Thereby design modifications can be achieved more easily and at a lower cost with connectors of the KPT/KPSE series.

KPT General purpose solder contact connectors







KPT General purpose solder contact connectors

- General purpose
- Solder termination
- Closed entry socket contacts

Series KPT from ITT Cannon offers general purpose connectors used in military applications, but also widely used in industrial applications calling for a circular connector with fixed contacts for solder termination.

The KPT series conforms to meet the performance specifications of MIL-C-26482 and is intermateable with all connectors according to the above specifications. VG95328H is also intermateable with the KPT and MIL-C-26482, see page A-62



Dimensions shown in inches (mm) Specifications and dimensions subject to change

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A

Circular

		Te	echnical Data			
Material and Finishes	КРТ			KPSE		
Shell	Aluminum alloy, conductive olive drab chromate over cadmium finish per QQ-P-416 Contact Factor for other plating options					
Insulator	Polychloroprene			Polychloroprene		
Grommet and Seal	Polychloroprene			Polychloroprene		
Contacts	Copper alloy, gold plated			Copper alloy, gold plated		
MECHANICAL			Shell	Sizes KPT 8 three		
Shell Sizes 00 - wall mou	inting receptacle		_	KPSE 10	thru 24	
01 - cable connecting plug			Polarization/Coupling: five keyway/three point bayonet			
02 - box mounting receptacle						
06 - straight plut			Service Classes A - general duty			
07 - jam nut receptacle			B - general duty with strain relief			
08 - 90° angle plug				E - grommet seal F - grommet seal with strain relief		
B - thru-bulkhead receptacle						
(KPT only)				J - gland nut with strain relief for jacketed cable P - potted		
				Ρ-ροι	ted	
Environmental Sealing	Acc. to VG9531	9 Part 2, Test No. 5.9.	2. For styles A to E	and J to W, Z1, Z2	and Z3 and gaskets style A and B only	
-	Test pressure 0,2 bar overpressure			Test duration 48 h		
	Test temperature $25 \pm 3^{\circ}C$			The connector shall be free of moisture		
				See 26482 specification		
Operating temperature	-55 / 125°C					
Electrical Data Number of contacts	2 thru 61			3 thru 61		
Wire Size AWG	16 thru 24			12 thru 24		
Contact termination	Solder			Crimp		
	301061			Chimp		
Contact rating	Size AWG	Rated current A	Test current A	Millivolt drop m	۱V	
	20	7.5	7.5	less than 55		
	16	13.0	13.0	less than 50		
	12	23.0	23.0	less than 42		
Insulation resistance	⊕ 5000 MW					
Service rating	Test voltage	Service class	Vrms	VDC	With scoop proof connectors	
	Sea level	1	1500	2100	operating voltages acc.	
Exception:	-	2	2300	3200	to MIL-C-26482 and	
Service rating between	21336 m	1	375	535	VG 96912 are permitted	
the central contact and the housing of the coaxial contact	(70 000 ft)	2	550	770		
	Operating volta	ge				
	Operating volta Service class	ge	VG 95328		MIL-C-26482	
		ge	VG 95328 140 VDC/100 VA 165 VDC/115 VA		MIL-C-26482 850 VDC/600 VAC 1400 VDC/1000 VAC	

Operating voltage and connector usage

Connectors are equipment which must not be separated or mated when under load conditions. When the connectors will be operated with line voltage, please consult factory.



MS DESIGNATION

- 3110 Wall mounting receptacle
- 3111 Cable connecting receptacle
- 3112 Box mounting receptacle (Class E only)
- 3114 Jam nut receptacle
- 3116 Straight plug

CLASS

- A -general duty (not MS approved)
- B -general duty with strain relief (not MS approved) without grommet and ferrule
- E -with a grommet seal, not for 02 and 3112 (MS specification)
- F -grommet seal with strain relief (MS specification)
- J -watertight gland seal with strain relief (MS specification) for jacketed cable (U.S. version) P -for potting (MS specification U.S. version)
- PG PG adapter (not available for shell #8)
- ME Metric adapter (not available for shell #8)

SHELL SIZES

8, 10, 12, 14, 16, 18, 20, 22, and 24



- A206 Black zinc cobalt hardware (U.S. version, RoHS compliant)
- A232 Black zinc cobalt hardware (European version, RoHS
- compliant)
- A233 Green zinc cobalt hardware (European version)
- A408 Extended Life Contact Gold over Nickel
- DN Shrink boot adapter for shell styles 00, 01, 06 and 07 (Class E only)
- DZ Endbell for shielding braids and shrink boots. (Class E only)
- 07 Clear chromate over cadmium hardware (U.S. version)
- 16 Lanyard release (applicable to plug only) (U.S. version)
- 23 Ground springs (applicable to plug only)
- F42 connectors without endbell and related components

P9 = PG9 for shell #10M12 = M12x1,5 for shell #10P11 = PG11 for shell #12M16 = M16x1,5 for shell #12P13 = PG13,5 for shell #14M20 = M20x1,5 for shell #14P16 = PG16 for shell #16M25 = M25x1,5 for shell #16P21 = PG21 for shell #20M25 = M25x1,5 for shell #18P21 = PG21 for shell #20M25 = M25x1,5 for shell #20P21 = PG21 for shell #22M32 = M32x1,5 for shell #22P29 = PG29 for shell #24M32 = M32x1,5 for shell #24

Consult factory for other modifications. Omit first digit (0) of shell style indication when using a modification code.

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