KPT/KPSE

CONNECTORS

KP-6/898

ITT Cannon

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Introduction

The miniature circular connectors series KPT and KPSE from ITT Cannon are manufactured acc. to 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 familiy of connectors conform to MIL-C-26482, NFC 93422 HE 301 model, VG 95328 and LN 29500 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 catalogue, connectors for special applications are available. They include corrosion resistant types, filter connectors for electromagnetic compatability and non-outgasing, radiation resistant versions.

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

Technical Data

Material and Finishes	KPT	KPSE
Shell	Aluminum alloy, conductive olive drab chromate over cadmium finish per QQ-P-416	
Insulator	Polychloroprene	Polychloroprene
Grommet and Seal	Polychloroprene	Polychloroprene
Contacts	Copper alloy, gold plated	Copper alloy, gold plated

Mechanical Data

Shell styles	00 – Wall mounting receptacle 01 – Cable connecting plug 02 – Box mounting receptacle 06 – Straight plug	07 – Jam nut receptacle 08 – Plug with 90° termination assemblies B – Thru-bulkhead receptacle (KPT only)
Shell sizes	8 thru 24	
Polarisation/Coupling	five keyways/three point bayonet	
Service classes E – Grommet seal	A – General duty B – General duty with strain relief E – Grommet seal F – Grommet seal with strain relief	G – Gland seal for jacketed cable J – Gland nut with strain relief for jacketed cable P – for potting see also pages 5 and 8
Water tightness	Acc. to VG 95319 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 temperature 25 ± 3°C	 Test duration 48 h The connector shall be free of moisture
Operating temperature	– 55 / 125°C	
Durability	min. 500 mating cycles	
Vibration	200 m/s² at 10 to 2000 Hz	

Electrical Data

Number of contacts	2 thru 61	3 thru 61
Wire size AWG	16 thru 24	12 thru 24
Contact termination	Solder	Crimp

Contact rating

Size AWG	Rated current A	Test current A	Millivolt drop mV
20	7,5	7,5	less than 55
16	22,0	13,0	less than 50

Insulation resistance: ⊕ 5000 MW

Service rating

Test voltage	Service class	Vrms	VDC	With scoop proof connectors
Sea level	1	1500	2100	operating voltages
	2	2300	3200	acc. to MIL-C-26482 and
21336 m	1	375	535	VG 96912 are
(70 000 ft.)	2	550	770	permitted

Exception
Service rating between the central contact and the housing of the coaxial contact

Operating voltage

Service class	VG 95328	MIL-C-26482
1	140 VDC/100 VAC	850 VDC/600 VAC
2	165 VDC/115 VAC	1400 VDC/1000 VAC

Operating voltage and connector usage

Connectors are equipment which must not be separated or mated when used as per determination. As acc. to specification the connectors are suitable for an operating voltage of 50 V (see Product Safety Information). However, this is only valid when the connectors are free accessible during operation and consequently might be touchable. When the connectors will be operated with line voltage, ITT Cannon offers a solution, too. Please consult factory.

KPT General purpose solder contact connectors

- General purpose
- Solder termination
- Closed entry socket contacts

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

The KPT series is MIL-C-26482 approved and is intermateable with all connectors acc. to the above mentioned specifications.

KPT General purpose solder contact connectors

How to order*

KPT 02 E 22 - 36 P W *

Series Prefix
KPT – ITT Cannon Prefix

Shell style
ITT Cannon designation
00 – wall mounting receptacle
01 – cable connecting plug
02 – box mounting receptacle (class E only), not with contact arrangement 14A4
06 – straight plug
07 – jam nut receptacle (hermetic version also available)
08 – 90° angle plug
B – thru-bulkhead receptacle (class E only)

Class
A – general duty with intermediate endbell
B – general duty with strain relief (may be used for potting)
E – with a grommet seal, not for 02 and 3112 (MS Spec)
F – grommet seal with strain relief (MS Spec)
G – gland seal for jacketed cable
J – watertight gland seal with strain relief for jacketed cable
P – for potting (MS Spec)

Shell sizes
8, 10, 12, 14, 16, 18, 20, 22 und 24

Contact arrangement
see page 9 – 11

Contact type
P – pin
S – socket

Alternate insert position
W, X, Y and Z (omit for normal)
see page 12

Modification code
DN – Shrink boot adapter for shell styles 00, 01, 06 and 07
DZ – Endbell for shielding braids and shrink boots.
Class E will always be used for these modifications.

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

***Note:**
The above mentioned order reference explanation refers only to the ITT Cannon ordering system. For other order references according to a specification, please consult the cross reference list on pages 29 – 30.

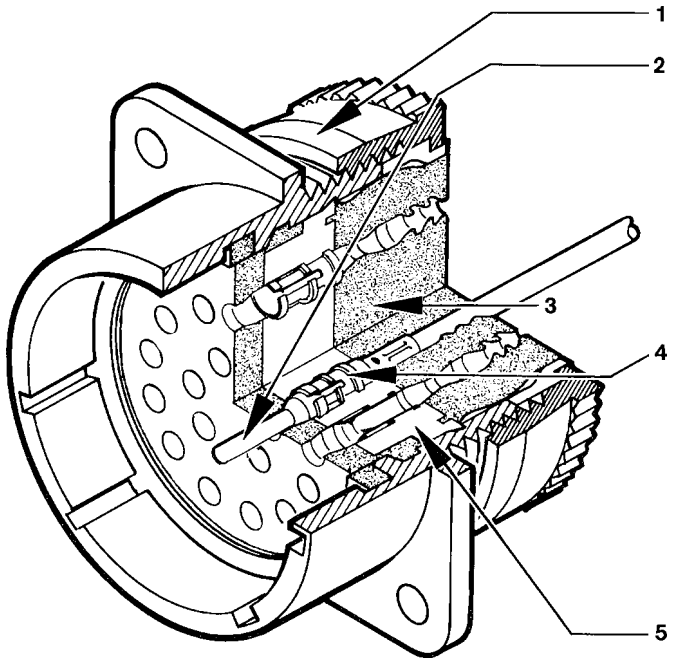
KPSE High performance crimp contact connectors

- High performance
- Crimp termination
- Closed entry socket contacts

Series KPSE environmental, miniature circular, quick disconnect connectors are designed for the exacting requirements of today`s electronic industry.

They are intermateable, intermountable and interchangeable with all connectors manufactured acc. to MIL-C-26482, LN 29500, VG 95328, NFC 93422 HE 301 and NFL 54125.

Connectors of ITT Cannon series KPSE have obtained the VDE Expertise No. 63761.



1 Standard MIL-C-26482 or NFL 54 125 Hardware
mates with any connector designed to MIL-C-26 482, LN 29500 or NF L 54 125 or NF C 93 422, HE 301 model

2 Crimp, snap-in contacts
are designed to MIL-C-23216 and can be crimped with the standard M22520/1 crimp tool.

CLOSED-ENTRY SOCKET CONTACTS
eliminate damage from abuse by test probes and help to correct any misaligned pins during engagement.

CONTACT INSERTION
is accomplished from the rear of the connector. When the contact is fully inserted, the clip tines snap securely behind the contact shoulder.

CONTACT EXTRACTION
is accomplished with a front-inserted extraction tool. Pressing the tool plunger pushes the contact out through the rear of the connector.

3 Monobloc insulator
does not leave any access to moisture and avoids interfacial empty space.

4 Contact retaining clip
is completely encased in a tough plastic wafer to protect the clip from damage.

Complete moisture sealing
is achieved by combining four seals: shell, peripheral, interfacial and wire seals.

SHELL SEAL
is effected when the plug shell pushes against the sealing ring in the receptacle when the connectors are mated.

PERIPHERAL SEAL
around the edge of the pin insulator is designed so that mating the connector puts tension on the seal and greatly reduces compression set.

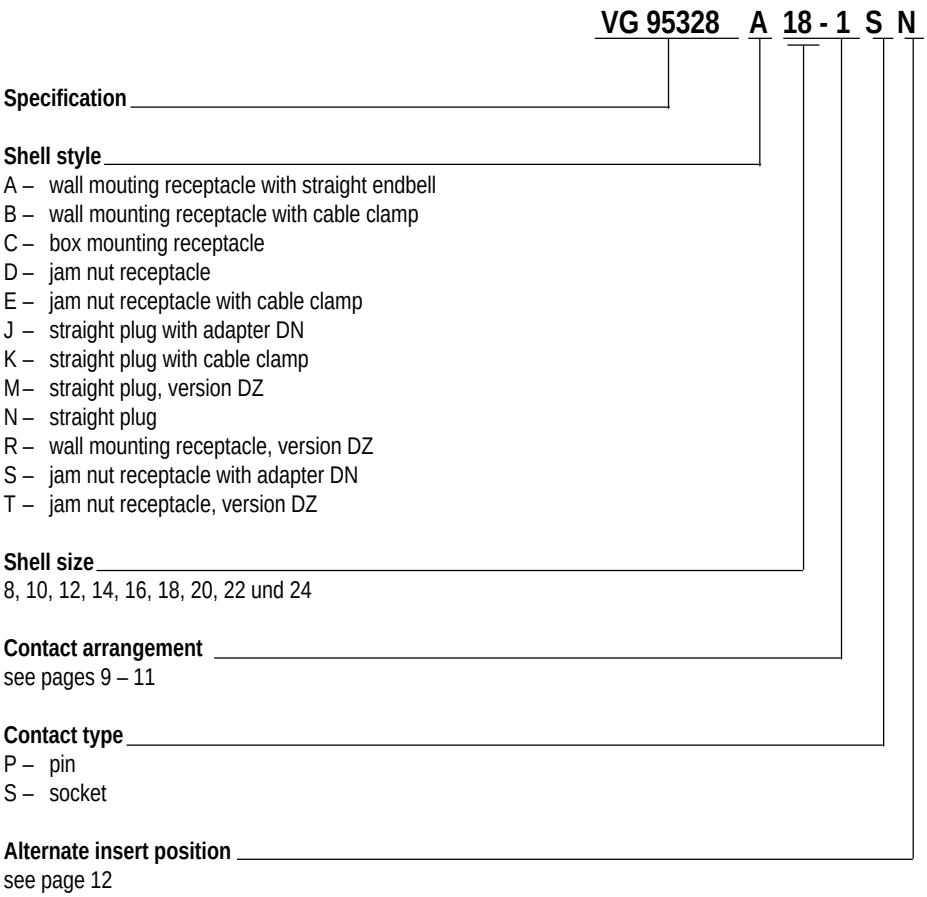
INTERFACIAL SEAL
is achieved by the insulator faces meeting when the plug and receptacle are mated.

WIRE SEAL
is accomplished by a multiple ripple design, exceeding the wire sealing requirements of MIL-C-26482.

5 Positive insert-to-shell mechanical retention
with hard plastic wafer firmly locked into a groove in the shell, in addition to a strong adhesive bond between the insert and shell.

KPSE High performance crimp contact connectors

How to order acc. to VG 95328



KPSE High performance crimp contact connectors

How to order

KPSE 00 E 18 - 32 P X *

Series prefix
KPSE – ITT Cannon prefix
MS – MIL-C-26482 prefix

Shell style
ITT Cannon designation
00 – wall mounting receptacle
01 – cable connecting plug
02 – box mounting receptacle
06 – straight plug
07 – jam nut receptacle
08 – 90° angle plug

Class
A – general duty (not MS approved)
B – general duty with strain relief (not MS approved)
E – grommet seal (MS specification)
F – grommet seal with strain relief (MS specification)
G – gland seal for jacketed cable
J – gland seal with strain relief for jacketed cable (not MS approved)
P – for potting (MS specification)

Shell style
8, 10, 12, 14, 16, 18, 20, 22 und 24

Contact arrangement
see pages 9 – 11

Contact type
P – pin
S – socket

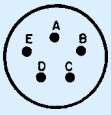
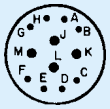
Alternate insert position
W, X, Y and Z (omit for normal), see page 12

Modification code
DN – Shrink boot adapter for shell styles 00, 01, 06 and 07
DZ – Endbell for shielding braids and shrink boots.
Class E will always be used for these modifications.

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

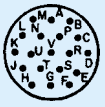
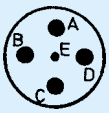
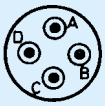
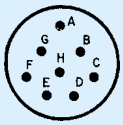
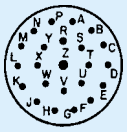
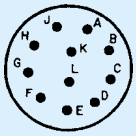
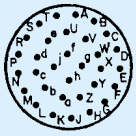
***Note:**
The above mentioned order reference explanation refers only to the ITT Cannon ordering system. For other order references according to a specification, please consult the cross reference list on pages 29 – 30.

Contact Arrangements

	No. of contacts	**Contact arrangement** Contact size AWG	Service rating	Insulator position W	X	Y	Z	Insulator weight (g) including contacts pin	socket
	2	**8-2** ▲△ 20	1	58	122	-	-		
	3	**8-3** ▲△ 20	1	60	210	-	-		
	3	**8-3A** △●◇▼ 20	1	60	-	-	-		
	3	**8-33** ▲◇△ 16S	1	90	-	-	-		
	4	**8-4** ▲△ 16S	1	45	-	-	-		
	6	**10-6** ●△◇▼ 20	1	90	-	-	-		
	3	**12-3** ▲●◇△▼ 16	2	-	-	180	-		
	10	**12-10** ▲●◇△▼ 20	1	60	155	270	295		
	5	**14-5** ▲△ 16	2	40	92	184	273		
	12	**14-12** ▲△ 20 (8) 16 (4)	1	43	90	-	-		

Legende
▲ KPT ◇ KPSE ▼ LN29500 △ authorized per MIL-C-26482 ● authorized per VG95328

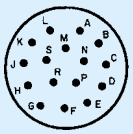
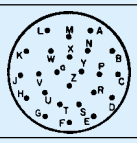
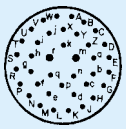
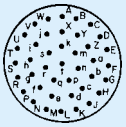
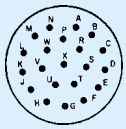
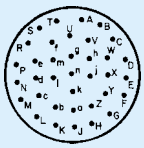
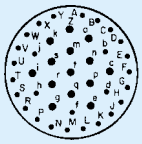
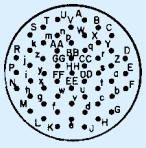
Contact Arrangements

	No. of contacts	**Contact arrangement** Contact size AWG	Service rating	Insulator position W	X	Y	Z	Insulator weight (g) including contacts pin	socket
	15	**14-15** ▲●◇△▼ 20	1	17	110	155	124		
	19	**14-19** ▲●◇△▼ 20	1	30	165	315	-		
	5	**14-22** ● 12 (1) 20 (4)	1	-	-	-	-		
	4	**14A4** ▲ Coax RG188U	1	-	-	-	-		
	8	**16-8** ▲●◇△ 16	2	54	152	180	331		
	23	**16-23** ▲●◇ 20 (22) 16 (1)	1	158	270	-	-		
	26	**16-26** ▲●◇△ 20	1	60	-	275	338		
	11	**18-11** ▲●◇△▼ 16	2	62	119	241	340		
	32	**18-32** ▲●◇△▼ 20	1	85	138	222	265		

Legende

▲ KPT ◇ KPSE ▼ LN29500 △ authorized per MIL-C-26482 ● authorized per VG95328

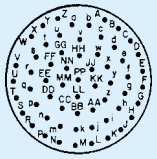
Contact Arrangements

	No. of contacts	**Contact arrangement** Contact size AWG	Service rating	Insulator position W	X	Y	Z	Insulator weight (g) including contacts pin	socket
	16	**20-16 ▲●◇△▼** 16	2	238	318	333	347		
	5	**20A6 ◇** 12	2	90	180	270	-		
	24	**20-24 ▲** 20	1	70	145	215	290		
	39	**20-39 ▲●◇△** 20 (37) 16 (2)	1	63	114	252	333		
	41	**20-41 ▲●◇△▼** 20	1	45	126	225	-		
	21	**22-21 ▲●◇△** 16	2	16	135	175	349		
	36	**22-36 ▲●** 20	1	72	144	216	288		
	41	**22-41 ▲●◇△▼** 20 (27) 16 (14)	1 2	39	135	264	-		
	55	**22-55 ▲●◇△▼** 20	1	30	142	226	314		

Legende

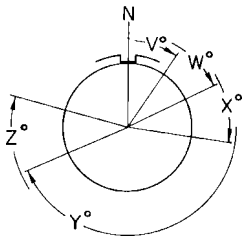
▲ KPT ◇ KPSE ▼ LN29500 △ authorized per MIL-C-26482 ● authorized per VG95328

Contact arrangements

	No. of contacts	**Contact arrangement** Contact size AWG	Service rating	Insulator position W	X	Y	Z	Insulator weight (g) including contacts pin	socket
	61	**24-61 ▲●◇△** 20	1	90	180	270	324		

Alternate Insert Position

The diagram indicates alternate insert positions. The six positions N, V, W, Y, Z differ in degree of rotation for various sizes and arrangements. For the exact degree of rotation, for the list of contact arrangements and for alternate positions available, refer to the table at the right.

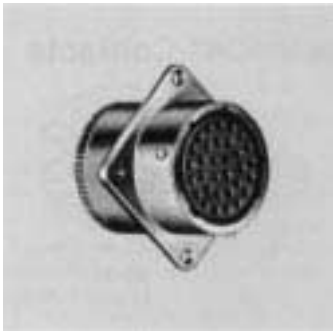


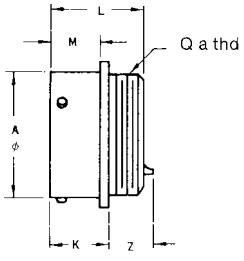
Shell size	Nbr. of contacts	Contact arr.	Degree of rotation V	W	X	Y	Z
8	2	8-2	-	58	122	-	-
	3	8-3	-	60	210	-	-
	3	8-3A	-	60	-		--
	3	8-33	-	90	-	-	-
4	8-4	-	45	-	-		
10	6	10-6	-	90	-		--
12	3	12-3	-	-		180	-
	10	12-10	-	60	155	270	295
14	4	14A4	-	-	-	-	-
	5	14-22	-	-	-	-	-
	5	14-22	-	40	92	184	273
	12	14-5	-	43	90	-	-
	15	14-15	-	17	110	155	234
	19	14-19	-	30	165	315	-
16	8	16-8	-	54	52	180	331
	23	16-23	-	158	270	-	-
	26	16-26	-	60	-	275	338
18	11	18-11	-	62	119	241	340
	32	18-32	-	85	138	222	265
20	5	20A6*	-	90	180	270	-
	16	20-16	-	238	318	333	347
	24	20-24	-	70	145	215	290
	39	20-39	-	63	114	252	333
	41	20-41	-	45	126	225	-
22	21	22-21	-	16	135	175	349
	36	22-36	-	72	144	216	288
	41	22-41	-	39	135	264	-
	55	22-55	-	30	142	226	314
24	61	24-61	-	90	180	270	324

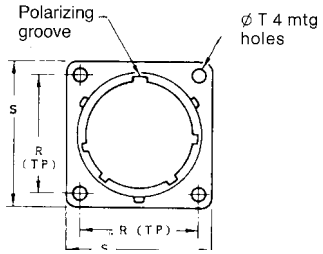
* This contact arrangement features five contacts size 12. Four are standard contacts and one is a first-to-mate contact.

Wall mounting receptacles

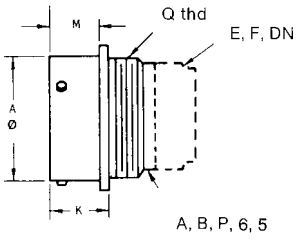
KPT00/MS3110 KPSE00/MS3120







Solder
KPT00/MS3110

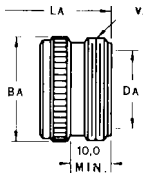


Crimp
KPSE00/MS3120

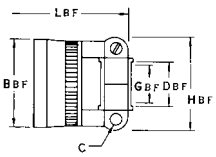
Without termination assembly

Shell size*	KPT/KPSE Ø A +0,03 -0,13	L max.	Q Thread Type 2A	K ±0,25	M ±0,15	R ±0,15	S max.	T ±0,15	KPT Z max.
◆8	12,00	21,6	7/16-28UNEF	13,5	11,6	15,1	21,0	3,05	12,3
10	15,00	21,6	9/16-24UNEF	13,5	11,6	18,3	24,2	3,05	12,3
12	19,05	21,6	11/16-24UNEF	13,5	11,6	20,6	26,6	3,05	12,3
14	22,23	21,6	13/16-20UNEF	13,5	11,6	23,0	29,0	3,05	12,3
16	25,40	21,6	15/16-20UNEF	13,5	11,6	24,6	31,3	3,05	12,3
18	28,58	21,6	1- 1/16-18UNEF	13,5	11,6	27,0	33,7	3,05	12,3
20	31,75	26,8	1- 3/16-18UNEF	16,5	14,25	29,4	36,9	3,05	10,8
22	34,93	26,8	1- 5/16-18UNEF	16,5	14,25	31,8	40,1	3,05	10,8
24	38,10	26,8	1- 7/16-18UNEF	17,3	15,1	34,9	43,3	3,75	10,0

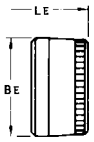
With termination assemblies



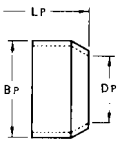
Type A



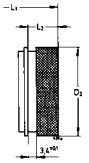
Type B or F



Type E



Type P



Mod. DN or F 185

Shell size*	Typ A B_A max.	D_A min.	L_A max.	V Thread Type 2A	Typ B and F B_{BF} max.	C Thread	D_{BF} min.	G_{BF} min.	H_{BF} max.	L_{BF} max.
◆8	15,0	8,5	38,0	1/2-28UNEF	14,0	6-32	6,0	2,9	19,3	45,1
10	18,2	11,8	38,0	5/8-24UNEF	17,2	6-32	7,5	4,5	20,8	45,1
12	21,2	15,0	38,0	3/4-20UNEF	20,4	6-32	10,7	7,7	24,4	45,1
14	24,6	17,9	38,0	7/8-20UNEF	23,6	6-32	13,9	9,3	27,2	45,1
16	27,7	21,1	38,0	1 -20UNEF	26,7	6-32	15,5	12,4	28,7	48,2
18	30,9	24,1	38,0	1-3/16-18UNEF	29,5	8-32	19,6	15,6	35,3	48,2
20	33,9	26,5	43,1	1-3/16-18UNEF	32,7	8-32	19,6	15,6	35,3	50,0
22	37,1	30,4	43,1	1-7/16-18UNEF	35,9	8-32	23,6	18,8	39,9	50,0
24	40,3	32,8	43,1	1-7/16-18UNEF	39,0	8-32	25,2	20,1	43,2	50,0

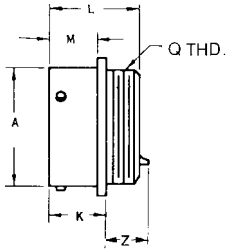
Shell size*	Type E B_E max.	L_E max.	Type P B_P max.	D_P min.	L_P max.	Mod. DN or F 185 D2 -0,5	L1 max.	L2 ±0,5
◆8	14,2	32,5	15,3	8,3	36,9	15,6	35,0	12,2
10	17,2	32,5	17,6	11,3	36,9	18,4	35,0	12,2
12	20,4	32,5	21,6	14,2	36,9	23,7	35,0	12,2
14	23,4	32,5	24,3	17,3	36,9	24,5	35,0	12,2
16	26,6	32,5	27,6	20,5	36,9	29,8	37,0	14,5
18	29,6	32,5	31,0	23,1	36,9	32,0	37,0	14,5
20	32,8	34,5	34,3	26,3	42,2	36,1	42,0	15,8
22	36,0	34,5	37,1	29,4	42,2	38,5	42,0	15,8
24	39,2	34,5	40,5	32,6	43,9	41,6	42,0	14,9

* See page 5, 7 and 8 for ordering number information

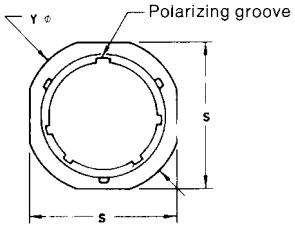
◆ in series KPSE only contact arrangements 8-3A and 8-33 available

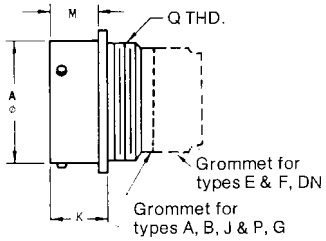
Cable connecting plugs

KPT01/MS3111 KPSE01/MS3121



Solder
KPT01/MS3111



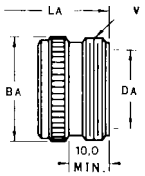


Crimp
KPSE01/MS3121

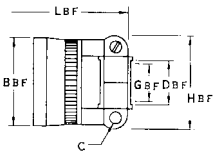
Without termination assembly

Shell size*	KPT/KPSE Ø A +0,03 -0,13	K ±0,25	L max.	M ±0,15	Q Thread Type 2A	S max.	Ø Y max.	KPT Z max.
◆8	12,00	13,5	21,5	11,6	7/16-28UNEF	18,5	21,0	12,3
10	15,00	13,5	21,5	11,6	9/16-24UNEF	23,0	24,2	12,3
12	19,05	13,5	21,5	11,6	11/16-24UNEF	29,0	26,6	12,3
14	22,23	13,5	21,5	11,6	13/16-20UNEF	29,5	29,0	12,3
16	25,40	13,5	21,5	11,6	15/16-20UNEF	32,0	31,3	12,3
18	28,58	13,5	21,5	11,6	1- 1/16-18UNEF	35,0	33,7	12,3
20	31,75	16,5	26,8	14,25	1- 3/16-18UNEF	38,5	36,9	10,8
22	34,93	16,5	26,8	14,25	1- 5/16-18UNEF	42,0	40,1	10,8
24	38,10	17,5	26,8	15,1	1- 7/16-18UNEF	46,0	43,3	10,0

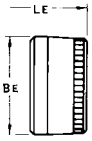
With termination assemblies



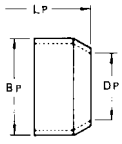
Type A



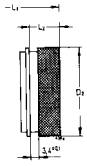
Type B or F



Type E



Type P



Mod. DN or F 185

Shell size*	Typ A B_A max.	D_A min.	L_A max.	V Thread Type 2A	Type B and F B_{BF} max.	C Thread	D_{BF} min.	G_{BF} min.	H_{BF} max.	L_{BF} max.
◆8	15,0	8,5	38,0	1/2-28UNEF	14,0	6-32	6,0	2,9	19,3	46,0
10	18,2	11,8	38,0	5/8-24UNEF	17,2	6-32	7,5	4,5	20,8	46,0
12	21,2	15,0	38,0	3/4-20UNEF	20,4	6-32	10,7	7,7	24,4	46,0
14	24,6	17,9	38,0	7/8-20UNEF	23,6	6-32	13,9	9,3	27,2	46,0
16	27,7	21,1	38,0	1 -20UNEF	26,7	6-32	15,5	12,4	28,7	49,0
18	30,9	24,1	38,0	1-3/16-18UNEF	29,5	8-32	19,6	15,6	35,3	49,0
20	33,9	26,5	43,1	1-3/16-18UNEF	32,7	8-32	19,6	15,6	35,3	51,1
22	37,1	30,4	43,1	1-7/16-18UNEF	35,9	8-32	23,6	18,8	39,9	51,1
24	40,3	32,8	43,1	1-7/16-18UNEF	39,0	8-32	25,2	20,1	43,2	51,1

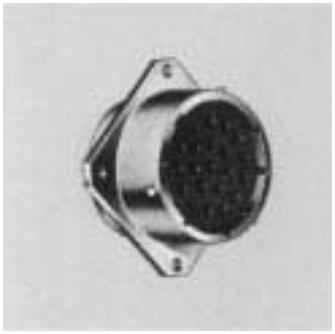
Shell size*	Type E B_E max.	L_E max.	Type P B_P max.	D_P min.	L_P max.	Mod. DN or F 185 D2 -0,5	L1 max.	L2 ±0,5
◆8	14,2	32,5	15,3	8,3	36,9	15,6	35,0	12,2
10	17,2	32,5	17,6	11,3	36,9	18,4	35,0	12,2
12	20,4	32,5	21,6	14,2	36,9	23,7	35,0	12,2
14	23,4	32,5	24,3	17,3	36,9	24,5	35,0	12,2
16	26,6	32,5	27,6	20,5	36,9	29,8	37,0	14,5
18	29,6	32,5	31,0	23,1	36,9	32,0	37,0	14,5
20	32,8	34,5	34,3	26,3	42,2	36,1	42,0	15,8
22	36,0	34,5	37,1	29,4	42,2	38,5	42,0	15,8
24	39,2	34,5	40,5	32,6	43,9	41,6	42,0	14,9

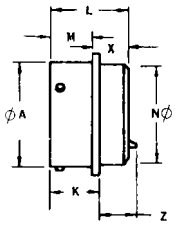
* See page 5, 7 and 8 for ordering number information

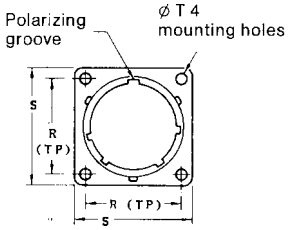
◆in series KPSE only contact arrangements 8-3A and 8-33 available

Box mounting receptacles

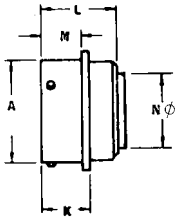
KPT02/MS3112 KPSE02/MS3122







Solder
KPT02/MS3112



Crimp
KPSE02/MS3122

Without termination assemblies

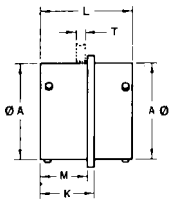
Shell size*	KPT/KPSE Ø A +0,03 -0,13	L max.	N max.	K ±0,25	M ±0,15	R ±0,15	S max.	T ±0,15	KPT Z max.
◆8	12,00	21,1	11,1	13,5	11,6	15,1	21,0	3,05	12,3
10	15,00	21,1	14,3	13,5	11,6	18,3	24,2	3,05	12,3
12	19,05	21,1	17,5	13,5	11,6	20,6	26,6	3,05	12,3
14	22,23	21,1	20,6	13,5	11,6	23,0	29,0	3,05	12,3
16	25,40	21,1	23,8	13,5	11,6	24,6	31,3	3,05	12,3
18	28,58	21,1	27,0	13,5	11,6	27,0	33,7	3,05	12,3
20	31,75	22,7	30,2	16,5	14,25	29,4	36,9	3,05	10,8
22	34,93	22,7	33,4	16,5	14,25	31,8	40,1	3,05	10,8
24	38,10	22,7	36,5	17,3	15,1	34,9	43,3	3,75	10,0

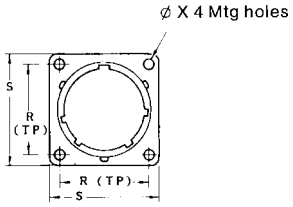
* See page 5, 7 and 8 for ordering number information

◆in series KPSE only contact arrangements 8-3A and 8-33 available

Thru-bulkhead receptacles

KPTB/MS3119





KPTB/MS3119

Receptacle assembly

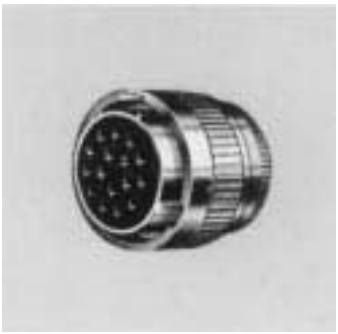
Shell size*	Ø A +0,03 -0,13	K ±0,5	L max.	M ±0,25	T max.	R ±0,15	S max.	X ±0,15
◆8	12,00	16,1	28,6	14,5	6,0	15,1	21,0	3,05
10	15,00	16,1	28,6	14,5	6,0	18,3	24,2	3,05
12	19,05	16,1	28,6	14,5	6,0	20,6	26,6	3,05
14	22,23	16,1	28,6	14,5	6,0	23,0	29,0	3,05
16	25,40	16,1	28,6	14,5	6,0	24,6	31,3	3,05
18	28,58	16,1	28,6	14,5	6,0	27,0	33,7	3,05
20	31,75	20,1	31,9	17,7	9,2	29,4	36,9	3,05
22	34,93	20,1	31,9	17,7	9,2	31,8	40,1	3,05
24	38,10	20,1	31,9	17,7	8,0	34,9	43,3	3,75

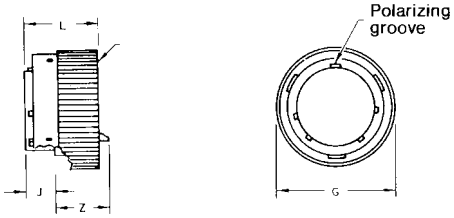
* See page 5, 7 and 8 for ordering number information

◆in series KPSE only contact arrangements 8-3A and 8-33 available

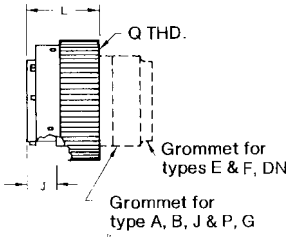
Straight plugs

KPT06/MS3116 KPSE06/MS3126





Solder
KPT06/MS3116

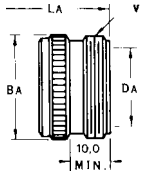


Crimp
KPSE06/MS3126

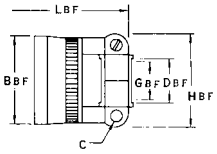
Without termination assemblies

Shell size*	KPT/KPSE G max.	J L ±0,15	Q Thread max.	KPT Z Thread Type 2A	max.
◆8	19,8	9,1	21,4	7/16-28UNEF	16,3
10	23,6	9,1	21,4	9/16-24UNEF	16,3
12	26,5	9,1	21,4	11/16-24UNEF	16,3
14	30,1	9,1	21,4	13/16-20UNEF	16,3
16	33,2	9,1	21,4	15/16-20UNEF	16,3
18	35,4	9,1	21,4	1- 1/16-18UNEF	16,3
20	39,0	10,7	25,1	1- 3/16-18UNEF	15,0
22	42,1	10,7	25,1	1- 5/16-18UNEF	15,0
24	45,2	10,7	25,1	1- 7/16-18UNEF	15,0

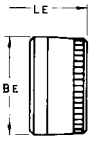
With termination assemblies



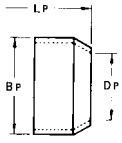
Type A



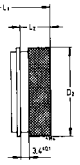
Type B or F



Type E



Type P



Mod. DN or F 185

Shell size*	Type A B_A max.	D_A min.	L_A max.	V Thread Type 2A	Typ B and F B_{BF} max.	C Thread	D_{BF} min.	G_{BF} min.	H_{BF} max.	L_{BF} max.
◆8	15,0	8,5	42,0	1/2-28UNEF	14,0	6-32	6,0	2,9	19,3	46,0
10	18,2	11,8	42,0	5/8-24UNEF	17,2	6-32	7,5	4,5	20,8	46,0
12	21,2	15,0	42,0	3/4-20UNEF	20,4	6-32	10,7	7,7	24,4	46,0
14	24,6	17,9	42,0	7/8-20UNEF	23,6	6-32	13,9	9,3	27,2	46,0
16	27,7	21,1	42,0	1 -20UNEF	26,7	6-32	15,5	12,4	28,7	49,0
18	30,9	24,1	42,0	1-3/16-18UNEF	29,5	8-32	19,6	15,6	35,3	49,0
20	33,9	26,5	45,0	1-3/16-18UNEF	32,7	8-32	19,6	15,6	35,3	49,0
22	37,1	30,4	45,0	1-7/16-18UNEF	35,9	8-32	23,6	18,8	39,9	49,0
24	40,3	32,8	45,0	1-7/16-18UNEF	39,0	8-32	25,2	20,1	43,2	49,0

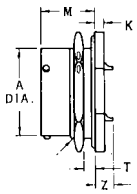
Shell size*	Type E B_E max.	L_E max.	Type P B_P max.	D_P min.	L_P max.	Mod. DN or F 185 D2 -0,5	L1 max.	L2 ±0,5
◆8	14,2	32,5	15,3	8,3	36,9	15,6	35,0	12,2
10	17,2	32,5	17,6	11,3	36,9	18,4	35,0	12,2
12	20,4	32,5	21,6	14,2	36,9	23,7	35,0	12,2
14	23,4	32,5	24,3	17,3	36,9	24,5	35,0	12,2
16	26,6	32,5	27,6	20,5	36,9	29,8	37,0	14,5
18	29,6	32,5	31,0	23,1	36,9	32,0	37,0	14,5
20	32,8	34,5	34,3	26,3	42,2	36,1	42,0	15,8
22	36,0	34,5	37,1	29,4	42,2	38,5	42,0	15,8
24	39,2	34,5	40,5	32,6	43,9	41,6	42,0	14,9

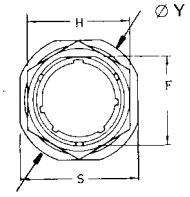
* See page 5, 7 and 8 for ordering number information

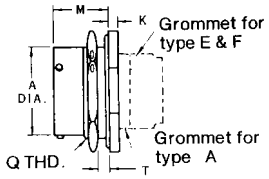
◆in series KPSE only contact arrangements 8-3A and 8-33 available

Jam nut receptacle

KPT07/MS3114 KPSE07/MS3124







Solder
KPT07/MS3114 Type A

Crimp
KPSE07/MS3124

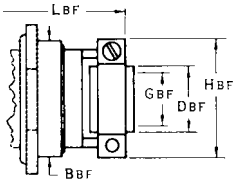
Without termination assemblies

Shell size*	KPT/KPSE A +0,03 -0,13	F ±0,15	H ±0,15	K ±0,25	M ±0,15	R Thread Type 2A	S ±0,5	T Panel thickness min.	T Panel thickness max.	KPT Ø Y max.	KPT Z max.
◆8	12,0	13,3	19,0	3,2	17,7	9/16-24UNEF	24,0	1,6	3,5	28,0	7,9
10	15,0	16,5	22,2	3,2	17,7	11/16-24UNEF	27,0	1,6	3,5	31,0	7,9
12	19,05	20,6	27,0	3,2	17,7	7/8-20UNEF	32,0	1,6	3,5	36,0	7,9
14	22,23	23,8	30,2	3,2	17,7	1 -20UNEF	35,0	1,6	3,5	39,0	7,9
16	25,40	26,9	33,3	3,2	17,7	1- 1/8-18UNEF	38,5	1,6	3,5	42,0	7,9
18	28,58	30,1	36,5	3,2	17,7	1- 1/4-18UNEF	41,5	1,6	3,5	45,0	7,9
20	31,75	33,3	39,7	4,0	22,5	1- 3/8-18UNEF	46,0	1,6	6,5	50,0	4,7
22	34,93	36,5	42,9	4,0	22,5	1- 1/2-18UNEF	49,5	1,6	6,5	55,0	4,7
24	38,10	39,6	46,0	4,0	23,3	1- 5/8-18UNEF	52,5	1,6	6,5	57,0	3,8

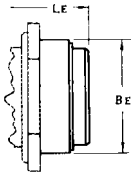
* See page 5, 7 and 8 for ordering number information

◆in series KPSE only contact arrangements 8-3A and 8-33 available

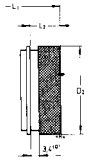
With termination assemblies



Type B or F



Type E



Modification
DN or F 185

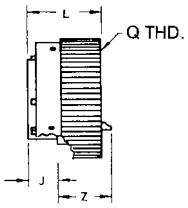
Shell size*	Type B and F B_{BF} max.	D_{BF} min.	G_{BF} min.	H_{BF} max.	Type E L_{BF} max.	B_E max.	Type DN L_E max.	L_1 max.	L_2 ±0,5	D_2 max.
◆8	18,2	6,0	2,9	19,3	44,9	18,2	33,5	43,0	12,2	15,6
10	21,5	7,5	4,5	20,8	44,9	21,5	33,5	43,0	12,2	18,4
12	24,6	10,7	7,7	24,2	44,9	24,6	33,5	43,0	12,2	23,7
14	27,8	13,9	9,3	27,2	44,9	27,8	33,5	43,0	12,2	24,7
16	31,0	15,5	12,4	28,7	48,4	31,0	33,5	45,5	14,5	29,8
18	34,1	19,6	15,6	35,3	48,4	34,1	33,5	45,5	14,5	32,0
20	38,1	19,6	15,6	35,3	50,3	38,1	39,0	52,6	15,8	36,1
22	41,3	23,6	18,8	39,8	50,3	41,3	39,0	52,6	15,8	28,5
24	44,5	25,2	20,1	43,2	50,3	44,5	39,0	51,6	14,9	41,6

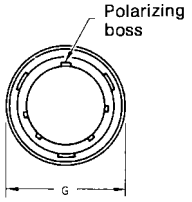
* See page 5, 7 and 8 for ordering number information

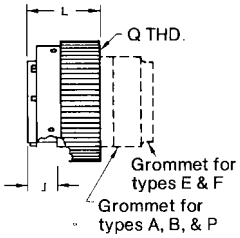
◆in series KPSE only contact arrangements 8-3A and 8-33 available

Right angle plug, 90°

KPT08 KPSE08







Solder
KPT08

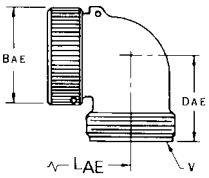
Crimp
KPSE08

Without termination assemblies

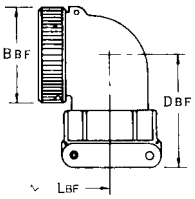
Shell size*	KPT/KPSE G max.	J ±0,15	L max.	Q Thread Type 2A	KPT Z max.
◆8	19,8	9,1	21,4	7/16-28UNEF	16,3
10	23,6	9,1	21,4	9/16-24UNEF	16,3
12	26,5	9,1	21,4	11/16-24UNEF	16,3
14	30,1	9,1	21,4	13/16-20UNEF	16,3
16	33,2	9,1	21,4	15/16-20UNEF	16,3
18	35,4	9,1	21,4	1- 1/16-18UNEF	16,3
20	39,0	10,7	25,1	1- 3/16-18UNEF	15,0
22	42,1	10,7	25,1	1- 5/16-18UNEF	15,0
24	45,2	10,7	25,1	1- 7/16-18UNEF	15,0

* See page 5, 7 and 8 for ordering number information ◆in series KPSE only contact arrangements 8-3A and 8-33 available

With termination assemblies



Typ A or E



Type B or F

Shell size*	Typ A and E B_{AE} max.	L_{AE} max.	D_{AE} max.	V Thread Type 2A	Type B and F B_{BF} max.	D_{BF} max.	L_{BF} max.
◆8	15,6	36,1	20,9	1/2-28UNEF	15,6	31,4	36,1
10	18,9	38,3	21,7	5/8-24UNEF	18,9	32,2	38,3
12	21,2	40,9	23,3	3/4-20UNEF	21,2	35,4	40,9
14	24,8	41,6	24,9	7/8-20UNEF	24,8	38,6	41,6
16	27,7	42,5	26,5	1 -20UNEF	27,7	40,2	42,5
18	31,4	44,7	28,1	1-3/16-18UNEF	31,4	41,8	44,7
20	34,7	48,3	29,6	1-3/16-18UNEF	34,7	43,4	48,3
22	36,9	52,1	31,7	1-7/16-18UNEF	36,9	47,9	52,1
24	41,1	52,1	33,6	1-7/16-18UNEF	41,1	49,9	52,1

* See page 5, 7 and 8 for ordering number information ◆in series KPSE only contact arrangements 8-3A and 8-33 available

Special versions with grounding continuity

These connectors are designed to ensure electrical continuity

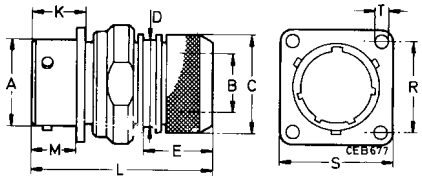
- at the cable shielding level
  (to protect it against radio frequency intererences)
- at the grounding level
  (if it is connected to the shielding).

The plugs are manufactured with grounding fingers soldered to the front face of the shell. They make contact with the inner side of the receptacle shell.

Plug and receptacle feature a special endbell which supports the cable shielding. The connectors are in accordance with the VG 95328 specification.

Receptacle with grounding continuity (for shielded cable)

KPT/KPSE 0E ... DZ



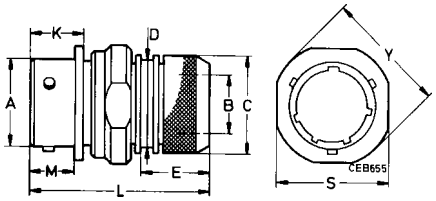
Shell size*	A +0,03 -0,13	B min.	C +0,5	D max.	E 1,00	K ±0,25	L max.	M ±0,15	R ±0,15	S max.	ØT ±0,15
◆8	12,00	6,6	16,0	13,3	15,0	13,5	52,0	11,6	15,1	21,0	3,05
10	15,00	9,2	18,0	16,1	15,0	13,5	52,0	11,6	18,3	24,2	3,05
12	19,05	12,2	22,0	20,0	17,0	13,5	52,0	11,6	20,6	26,6	3,05
14	22,23	15,2	25,0	22,2	18,0	13,5	53,0	11,6	23,0	29,0	3,05
16	25,40	18,3	28,0	26,2	18,0	13,5	53,0	11,6	24,6	31,3	3,05
18	28,58	20,0	32,0	28,5	18,0	13,5	53,0	11,6	27,0	33,7	3,05
20	31,75	23,0	34,0	32,5	18,0	16,5	58,0	14,25	29,4	36,9	3,05
22	34,93	26,0	38,0	34,8	18,0	16,5	58,0	14,25	31,7	40,1	3,05
24	38,10	28,8	41,0	37,9	18,0	17,3	58,0	15,1	34,9	43,3	3,75

* See pages 5 and 8 for ordering number information

◆in series KPSE only contact arrangements 8-3A and 8-33 available

Cable connecting plug with grounding continuity (for shielding cable)

KPT/KPSE 1E ... DZ

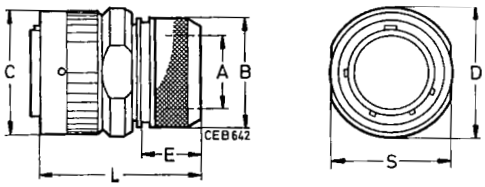


Shell size*	A +0,03 -0,13	B min.	C +0,50	D max.	E ±1,0	K ±0,25	L max.	M ±0,15	S max.	Ø Y max.
◆8	12,00	6,6	16,0	13,3	15,0	13,5	52,0	11,6	18,5	21,0
10	15,00	9,2	18,0	16,1	15,0	13,5	52,0	11,6	23,0	24,2
12	19,05	12,2	22,0	20,0	17,0	13,5	52,0	11,6	29,0	26,6
14	22,23	15,2	25,0	22,2	18,0	13,5	53,0	11,6	29,5	29,0
16	25,40	18,3	28,0	26,2	18,0	13,5	53,0	11,6	32,0	31,3
18	28,58	20,0	32,0	28,5	18,0	13,5	53,0	11,6	35,0	33,7
20	31,75	23,0	34,0	32,5	18,0	16,5	58,0	14,25	38,5	36,9
22	34,93	26,0	38,0	34,8	18,0	16,5	58,0	14,25	42,0	40,1
24	38,10	28,8	41,0	37,9	18,0	17,5	58,0	15,10	46,0	43,3

* See pages 5 and 8 for ordering number information ◆in series KPSE only contact arrangements 8-3A and 8-33 available

Straight plug with grounding continuity

KPT/KPSE6E.DZ

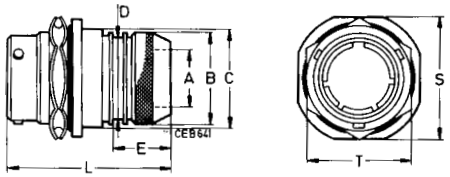


Shell size*	A min.	B +0,50	C max.	D max.	E ±1,0	L max.	S ±0,2
◆8	6,6	16,0	19,1	20,0	15,0	48,0	17,0
10	9,2	18,0	22,0	15,0	15,0	48,0	19,0
12	12,2	22,0	26,2	26,0	17,0	48,0	23,0
14	15,2	25,0	29,4	30,0	18,0	49,0	26,0
16	18,3	28,0	32,8	33,0	18,0	49,0	29,0
18	20,0	32,0	35,4	36,0	18,0	49,0	33,0
20	23,0	34,0	39,0	40,0	18,0	53,0	35,0
22	26,0	38,0	42,1	43,0	18,0	53,0	39,0
24	28,8	41,0	45,2	46,0	18,0	53,0	42,0

* See pages 5 and 8 for ordering number information ◆in series KPSE only contact arrangements 8-3A and 8-33 available

Jam nut receptacle with grounding continuity (for shielded cable)

KPT/KPSE 7E ... DZ



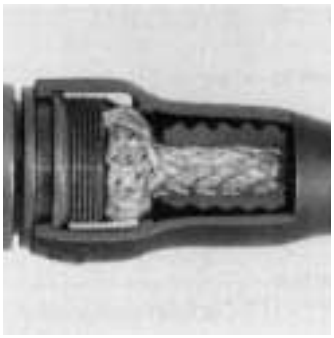
Shell-size	Ø A min.	Ø B +0,5	Ø C max.	D max.	E 1,0	L max.	S ±0,25	T ±0,25
◆8	6,6	16,0	18,2	13,3	15,0	47,0	23,0	19,0
10	9,2	18,0	21,4	16,1	15,0	47,0	27,0	22,2
12	12,2	22,0	24,6	20,0	17,0	49,0	31,7	27,0
14	15,2	25,0	27,8	22,2	18,0	50,0	34,9	30,2
16	18,3	28,0	30,9	26,2	18,0	50,0	38,1	33,3
18	20,0	32,0	34,1	28,5	18,0	50,0	41,3	36,5
20	23,0	34,0	38,1	32,5	18,0	55,0	46,0	39,7
22	26,0	38,0	41,3	34,8	18,0	55,0	49,2	42,9
24	28,8	41,0	44,4	37,9	18,0	55,0	52,3	46,0

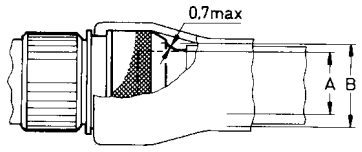
* See pages 5 and 8 for ordering number information

◆in series KPSE only contact arrangements 8-3A and 8-33 available

Assembly of a connector with a ground continuity endbell

KPT/KPSE ... DZ





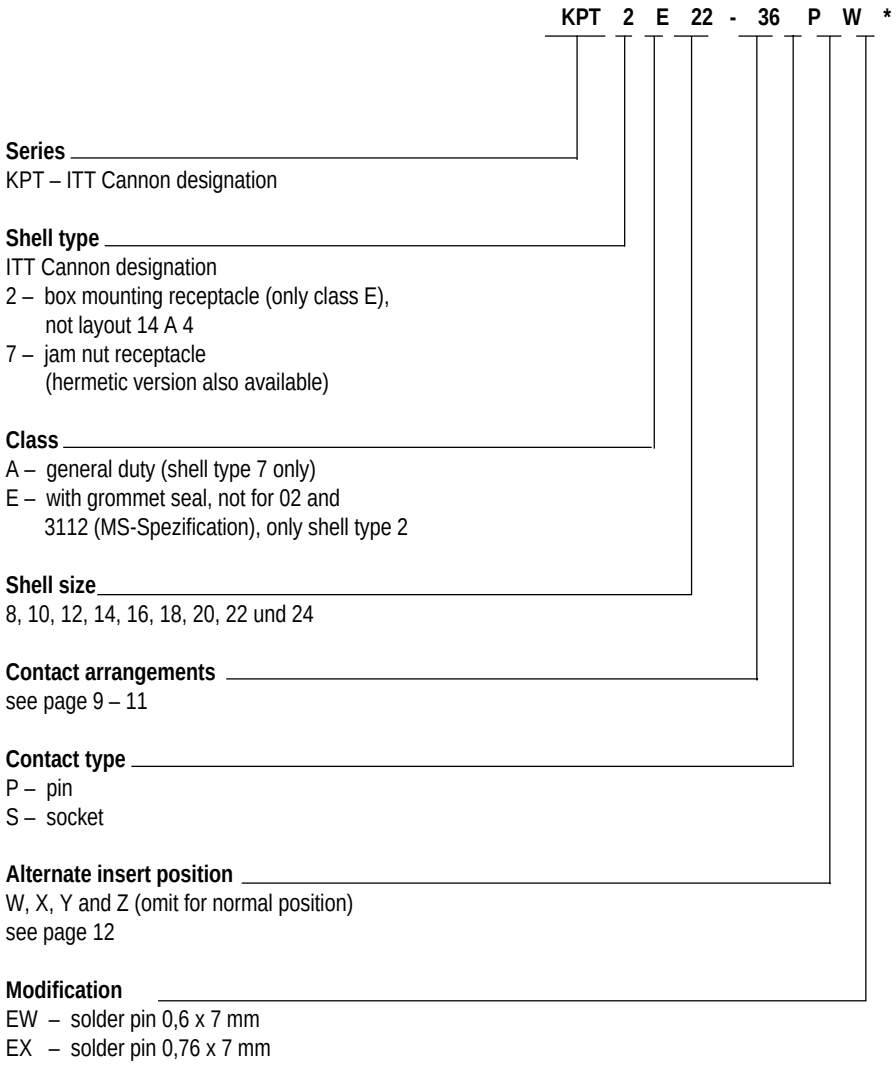
Shell size*	± A max.	± B max.
◆8	6,6	8,0
10	9,2	10,0
12	12,2	14,0
14	152	17,0
16	18,3	20,0
18	20,0	24,0
20	23,0	27,0
22	26,0	30,0
24	28,8	33,0

* See pages 5 and 8 for ordering number information

◆in series KPSE only contact arrangements 8-3A and 8-33 available

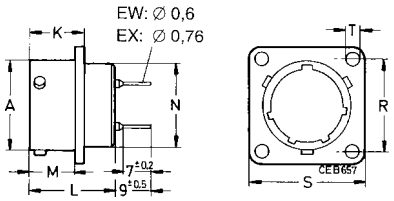
Receptacles with straight solder pins

How to order



Box mounting receptacle

KPT 2* P/S ·***

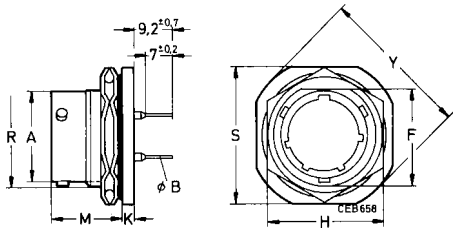


Shell size	A +0,03 -0,13	K ±0,25	L max.	M ±0,15	N max.	R ±0,15	S max.	Ø T ±0,15
8	12,00	13,50	21,1	11,60	11,10	15,10	21,00	3,05
10	15,00	13,50	21,1	11,60	14,30	18,30	24,20	3,05
12	19,05	13,50	21,1	11,60	17,50	20,60	26,60	3,05
14	22,23	13,50	21,1	11,60	20,60	23,00	29,00	3,05
16	25,40	13,50	21,1	11,60	23,80	24,60	31,30	3,05
18	28,58	13,50	21,1	11,60	27,00	27,00	33,70	3,05
20	31,75	16,50	22,7	14,25	30,20	29,40	36,90	3,05
22	34,93	16,50	22,7	14,25	33,40	31,70	40,10	3,05
24	38,10	17,30	22,7	15,10	36,50	34,90	43,30	3,75

Order ref. see page 22

Jam nut receptacle

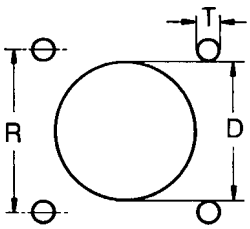
KPT 7* P/S ·***



Shell size*	A +0,03 -0,13	F ±0,15	H ±0,15	K ±0,25	M ±0,15	R Thread Type 2 A	S ±0,5	Panel thickness min.	Y max.
8	12,00	13,3	19,0	3,2	17,7	9/16-24UNEF	24,0	1,6	28,0
10	15,00	16,5	22,2	3,2	17,7	11/16-24UNEF	27,0	1,6	31,0
12	19,05	20,6	27,0	3,2	17,7	7/8-20UNEF	32,0	1,6	36,0
14	22,23	23,8	30,2	3,2	17,7	1- 20UNEF	35,0	1,6	39,0
16	25,40	26,9	33,3	3,2	17,7	1- 1/8-18UNEF	38,5	1,6	42,0
18	28,58	30,1	36,5	3,2	17,7	1- 1/4-18UNEF	41,5	1,6	45,0
20	31,75	33,3	39,7	4,0	22,5	1- 3/8-18UNEF	46,0	1,6	50,0
22	34,93	36,5	42,9	4,0	22,5	1- 1/2-18UNEF	49,5	1,6	55,0
24	38,10	39,6	46,0	4,0	23,3	1- 5/8-18UNEF	52,5	1,6	57,0

Order ref. see page 22

Panel cutouts

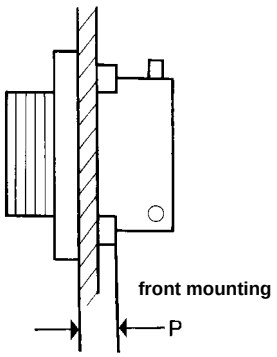


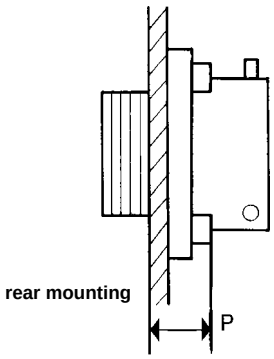
Box and wall mounting receptacle

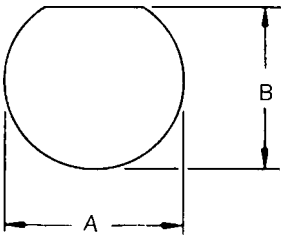
Shell size	for rear mounting D +0,25 / -0	for front mounting D +0,25 / -0	R ±0,15
8	14	12,7	15,1
10	17	16	18,3
12	22	19	20,6
14	25	22,2	23,0
16	28	25,5	24,6
18	31	28,5	27,0
20	34,5	31,7	29,4
22	37,5	35	31,8
24	41	38	34,9

Mounting hole diameter

Shell size	KPT/KPSE T +0,3	P - Panel thickness screw head height included
8	3,1	2,2
10	3,1	2,2
12	3,1	2,2
14	3,1	2,2
16	3,1	2,2
18	3,1	2,2
20	3,1	5,4
22	3,1	5,4
24	3,6	5,4







Jam nut receptacle

Shell size	KPT/KPSE A +0,25 -0	B +0 -0,12
8	14,5	13,6
10	17,7	16,8
12	22,7	20,9
14	25,7	24,1
16	28,8	27,2
18	32	30,4
20	35,1	33,6
22	38,4	36,8
24	41,5	40

Dummy receptacles

How to order

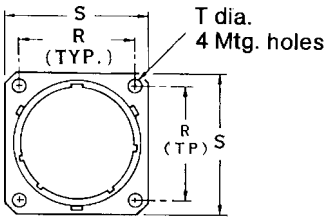
KPT / MS	15 - / 3115 -	8 / 10	A / A

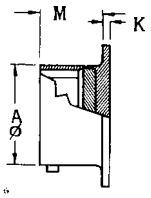
Series

Dummy receptacle

Shell size

Flange
A-Standard





Shell size	A +0,03 -0,13	K ±0,4	M ±0,15	R ±0,15	S max.	Ø T ±0,15
* 8 A	12,00	1,6	12,1	15,1	21,0	3,05
* 10 A	15,00	1,6	12,1	18,3	24,2	3,05
* 12 A	19,05	1,6	12,1	20,6	26,6	3,05
* 14 A	22,23	1,6	12,1	23,0	29,0	3,05
* 16 A	25,40	1,6	12,1	24,6	31,3	3,05
* 18 A	28,58	1,6	12,1	27,0	33,7	3,05
* 20 A	31,75	2,4	14,5	29,4	36,9	3,05
* 22 A	34,93	2,4	14,5	31,8	40,1	3,05
* 24 A	38,10	2,4	15,4	34,9	43,3	3,75

* Add KPT 15 or MS 3115 prefixes

Protective caps

Material and finishes

Protective cap	Aluminum alloy
Sash chain	Stainless steel
Cord	Polyamide
Ring	Stainless steel
Clip	Aluminum alloy
Gasket	Fluor Silicone
Endlink / rivet	Stainless steel, passivated
Bayonet pin	Stainless steel, passivated
Finishes	
A34	Nickel
A66	Olive drab chromate over cadmium

How to order

KPT80 - 10 D - A34
MS3180 - 10

Series
KPT80 – for plug
KPT81 – for receptacle

Shell size
8 – 24

Termination
D – Preferred type: with nylon cord and end link clip and end link attached
C – sash chain
N – sash chain with ring (81 or 3181 only)

Modification
A34 – nickel plated
without code = A66 – oliv drab chromate over cadmium

VG95328 - Z2 C 10

VG Specification

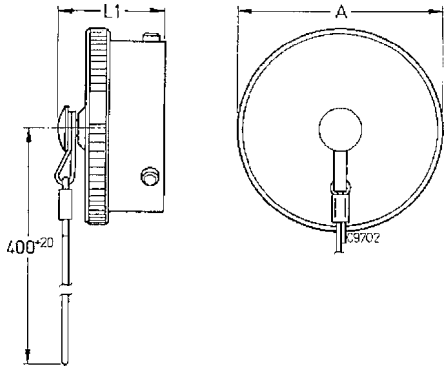
Style
Z1 – for receptacle
Z2 – for plug

Termination
C – with nylon cord and end link clip and end link attached

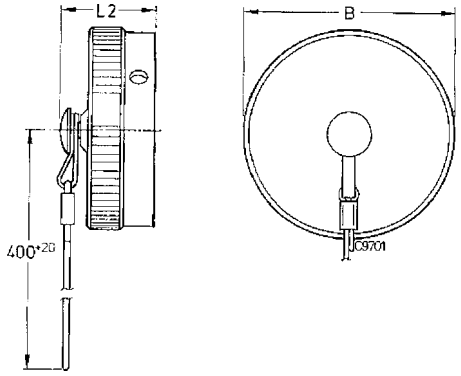
Shell size
8 – 24

Crimp tool for clips upon request

80 / 3180 – for plugs
cap with nylon cord D / preferred type

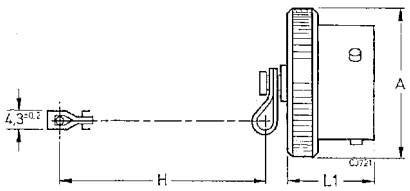


81 / 3181 – for receptacles
cap with nylon cord D / preferred type

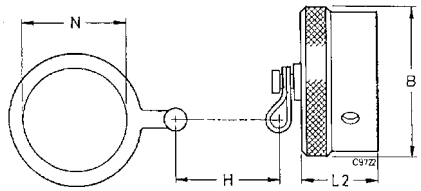


Shell	A size	L1 max	B max.	L2 max.	H max.	N
8	18,26	19,84	18,0	21,44	76	14,7
10	21,44	19,84	20,3	21,44	76	17,9
12	25,40	19,84	25,1	21,44	89	22,6
14	28,58	19,84	28,2	21,44	89	25,8
16	31,75	19,84	31.5	21,44	89	29,0
18	34,92	19,84	34,5	21,44	89	32,2
20	38,10	21,44	37,8	21,44	101	35,3
22	41,28	21,44	40,9	21,44	101	38,5
24	44,45	22,22	44,2	22,22	101	41,7

80 / 3180 – for plugs
cap with sash chain C or N



81 / 3181 – for receptacles
cap with sash chain C or N



Tools and Accessories

Crimp tools

Series	Hand crimp tool	Locator for contact sizes 20, 16 and 12	Test gage for Hand crimp tool
KPSE	M22520/1-01	M22520/1-02	M22520/3-1

Insertion/Extraction tool

KPSE

Contact size	Insertion tool		Extraction tool	
	MS	ITT Cannon	MS/ITT Cannon	LN
20 without insulation support	-	CIT-20-18	MS24256R20	W0,6LN29500
20 with insulation support	MS24256A20	CIT-20-5A	MS24256R20	W0,6LN29500
16	MS24256A16	CIT-16-1	MS24256R16	W1,2LN29500
12	MS24256A12		MS24256R12	

KPT14A4

Contact type	Insertion tool	Extraction tool
Coaxial	-	CET-C 6 B

Contacts

KPSE/VG 95328

Contact size	Contact type	Contact order ref. KPSE version	VG 95328 version
20	Socket with insulation support	031-8704-203	031-8704-203
	Pin with insulation support	430-8560-006	430-8560-006
16	Socket	031-8704-000	031-8704-000
	Pin	430-8560-004	430-8560-004
12	Socket	031-8704-012	
	Pin	430-8560-016	
	Grounding pin	430-8560-020	

KPT14A4

Coaxial	PIn	DM 53740-5001
	Socket	DM 53742-5001

Wire hole fillers/Grommet sealing plugs

KPSE

Contact size	Colour code	MS	LN	ITT Cannon
20	Red	MS3187A20	BL0,6LN 29500	225-1012-000
16	Blue	MS3187-16A	BL1,2LN 29500	225-1011-000
12	Yellow	MS3187-12		225-0072-000
Koax 14A4	Yellow			225-0018-000

Flange gaskets

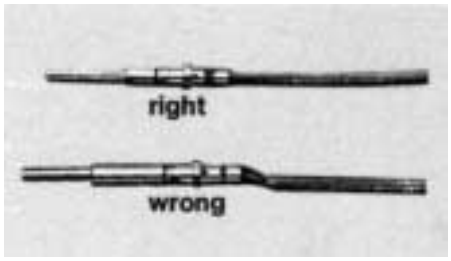
KPSE

Shell size	Alu-Flex conductive	Chloroprene non conductive
8	075-8543-000	075-8543-010
10	075-8543-001	075-8543-011
12	075-8543-002	075-8543-012
14	075-8543-003	075-8543-013
16	075-8543-004	075-8543-014

Shell size	Alu-Flex conductive	Chloroprene non conductive
18	075-8543-005	075-8543-015
20	075-8543-006	075-8543-016
22	075-8543-007	075-8543-017
24	075-8543-008	075-8543-018

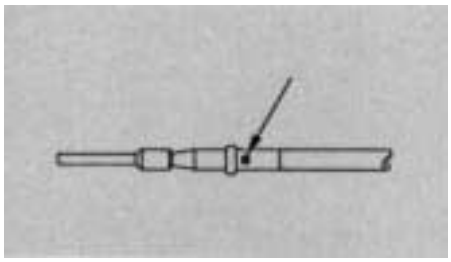
Contact size	Cable size mm² (AWG)	Strip insulation
20	0,93-0,21 (20-24)	5,0 mm
16	1,91-0,60 (16-20)	6,5 mm
12	3,18-1,91 (12-14)	6,5 mm
14A4 Coax	RG179B/u	

Crimping contacts
1. Strip wires according to the table above taking care not to cut or nick strands.

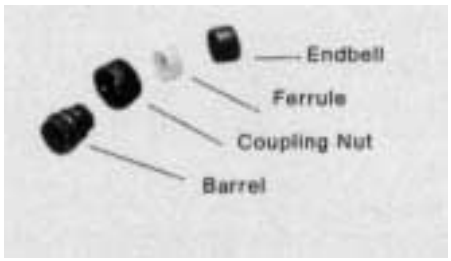


2. Insert stripped wire into contact crimp pot. Wire must be visible thru inspection hole.

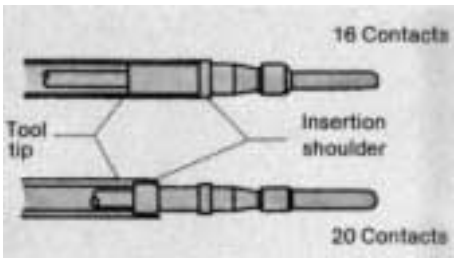
3. Using correct crimp tool and locator, cycle the tool once to be sure the indentors are open. Insert contact and wire into locator. Squeeze tool handles firmly and completely to insure a proper crimp. The tool will not release unless the crimp indentors in the tool head have been fully actuated.



4. Release crimped contact and wire from tool. Be certain the wire is visible thru inspection hole in contact.

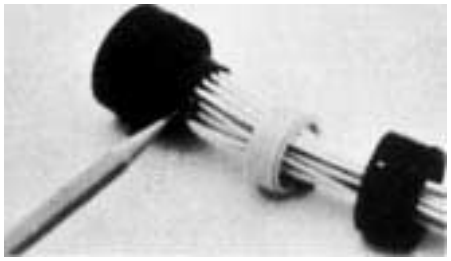


Contact insertion
5. Remove hardware from plug and receptacle. Slide hardware over wire bundle in proper order for re-assembly.

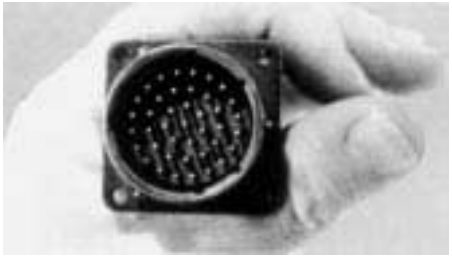


6. Use the proper contact insertion tool, and slide the tool over the terminal end of the contact. The size 16 contact lies in the tool and the tool tip butts against the contact shoulder. The rear, or insulation support, of the size 20 contact butts against an internal shoulder in the tool tip.

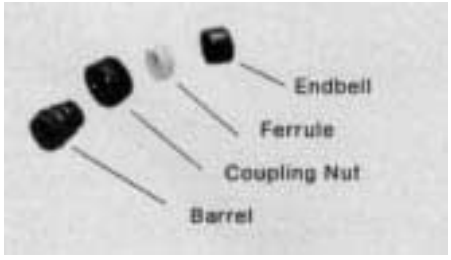
7. Beginning from center cavity and working outwards, insert wired contacts into rear of connector by hand until the front of the contact shoulder is no more than 1/8" from the grommet. Holding the connector securely, position tool behind contact. Push tool straight into contact cavity until contact snaps into position. A light pull on wire will assure that contact is locked securely. Repeat for remaining contacts.



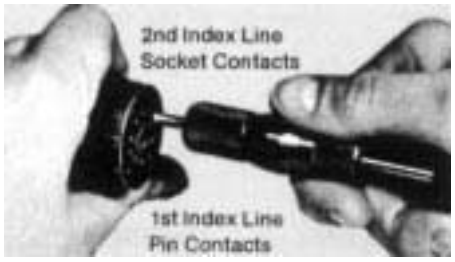
8. Use wire hole fillers or grommet sealing plugs to fill any empty cavities and assemble hardware to rear of plug or receptacle.



Completion
9. Check face of plug or receptacle for proper contact installation.



Contact extraction
10. Slide hardware back over wire bundle. Using proper extraction tool or extraction end of proper insertion/ extraction tool, proceed as follows:



11. Use the proper extraction tool. There are two lines on the clip sleeve which are vital to the contact removal process. The first index line is used for removing pin contacts while the second index line is for removing socket contacts. Carefully place the tool tip over the contact to be extracted until the tool tip touches the insulator face. Carefully rotate the tool until the index line is slightly below the insulator face. Keep an even pressure against tool body; push plunger forward with thumb and index finger; and push the contact out through the clip. Carefully remove extraction tool from connector. Pull the wire by hand to complete the removal of the contact.

Please ask for our detailed Assembly Instruction

Cross Reference List KPT/MIL-C-26482, NFL 54125, VG 95328

Part No. KPT ITT Cannon	Part No. MIL-26482	Part No. NFL 54125	Part No. VG 95328	Part No. LN 29500
KPT00B*-***		25100A*-***50		
KPT00B*-***		25100AC*-***50		
KPT00E*-***	MS3110E*-***	25100E*-***50		
KPT00F*-***	MS3110E*-***	25100EC*-***50		
KPT00G*-***		25100J*-***50		
KPT00J*-***	MS3110J*-***			
KPT00P*-***	MS3110P*-***	25100P*-***50		
KPT0E*-***DN				
KPT0E*-***DZ				
KPT01A*-***		25101A*-***50		
KPT01B*-***		25101AC*-***50		
KPT01E*-***	MS3111E*-***	25101E*-***50		
KPT01F*-***	MS3111F*-***	25101EC*-***50		
KPT01G*-***		25101J*-***50		
KPT01J*-***	MS3111J*-***			
KPT01P*-***	MS3111P*-***	25101P*-***50		
KPT1E*-***DN				
KPT06A*-***		25106A*-***50		
KPT06B*-***		25106AC*-***50		
KPT06E*-***	MS3116E*-***	25106E*-***50		
KPT06F*-***	MS3116F*-***	25106EC*-***50		
KPT06G*-***		25106J*-***50		
KPT1E*-***DZ				
		25102E*-***50Y11*		
		25107A*-***50Y11*		
KPT06J*-***	MS3116J*-***			
KPT06P*-***	MS3116P*-***	25106P*-***50		
KPT6A*-***88				
KPT6E*-***DN				
KPT6E*-***DZ				
KPT02E*-***	MS3112E*-***	25102E*-***50	H*-***VG 95328	
KPT07A*-***		25107A*-***50		
KPT07E*-***	MS3114E*-***	25107E*-***50		
KPT07F*-***	MS3114F*-***	25107EC*-***50		
KPT08E*-***				
KPT08F*-***		25108EC*-***50		
KPT08P*-***		25108P*-***50		
KPT7E*-***DN				
KPTB*-***	MS3119E*-***	251B*-***		

Please note: Connectors acc. to VG 95328 and connectors of ITT Cannon series KPSE use different contacts – see page 27

Cross Reference List Protective Caps

Part No. ITT Cannon	Part No. MIL-C-26482	Part No. NFL 54125	Part No. VG95328	Part No. LN 29500
KPT80	MS 3180			
KPT80...C	MS 3180...C		Z 2...VG 95328	
KPT81	MS 3181			
KPT81...C	MS 3181...C		Z 1...VG 95328	
KPT81...N	MS 3181...N			

Cross Reference List KPSE/MIL-C-26482, NFL 54125, VG95328

Part No. KPSE ITT Cannon	Part No. MIL-C-26482	Part No. NFL 54-125	Part No. VG 95328
KPSE00A*-***		25100RA*-***50	
KPSE00B*-***			
KPSE00E*-***	MS3120E*-***	25100R*-***50	A*-***VG 95328
KPSE00F*-***	MS3120F*-***	25100RC*-***50	B*-***VG 95328
KPSE0E*-***DZ			R*-***VG 95328
KPSE00J*-***			
KPSE00P*-***	MS3120P*-***	25100RP*-***50	
KPSE0E*-***DN			
KPSE00G*-***		25106RJ*-***50	
KSPE01A*-***	25101RA*-***50		
KPSE01B*-***			
KPSE01E*-***	MS3121E*-***	25101R*-***50	
KPSE01F*-***	MS3121F*-***	25101RC*-***50	
KPSE01G*-***		25101RJ*-***50	
KPSE01J*-***			
KPSE01P*-***	MS3121P*-***	25101RP*-***50	
KPSE*-***DN			
KPSE02E*-***	MS3122E*-***	25102R*-***50	C*-***VG 95328
KPSE06A*-***		25106RA*-***50	
KPSE06B*-***			
KPSE06E*-***	MS3126E*-***	25106R*-***	
KPSE06F*-***	MS3126F*-***	25106RC*-***50	K*-***VG 95328
KPSE06G*-***		25106RJ*-***50	
KPSE06J*-***			
KPSE06P*-***	MS3126P*-***	25106RP*-***50	
KPSE6A*-***88			
KPSE6E*-***88			N*-***VG 95328
KPSE6E*-***DN			J*-***VG 9532
KPSE6E*-***DZ			M*-***VG 95328
KPSE07A*-***		25107RA*-***50	
KPSE1E*-***DZ			
KPSE7E*-***DN			S*-***VG 95328
KPSE07E*-***	MS3124E*-***	25107R*-***50	D*-***VG 95328
KPSE07F*-***	MS3124F*-***	25107RC*-***50	E*-***VG 95328
KPSE08E*-***			
KPSE08F*-***		25108RC*-***50	
KPSE08P*-***		25108RP*-***50	
KPSE7E*-***DZ			T*-***VG 95328

Please note: Connectors acc. to VG 95328 and connectors of ITT Cannon series KPSE use different contacts – see page 27

Product Safety Information

THIS NOTE SHOULD BE READ IN CON-JUNCTION WITH THE PRODUCT DATA SHEET/CATALOGUE. FAILURE TO OB-SERVE THE ADVICE IN THIS INFOR-MATION SHEET AND THE OPERATING CONDITIONS SPECIFIED IN THE PRODUCT DATA SHEET/ CATALOGUE COULD RESULT IN HAZAR-DUOUS SITUATIONS.

1. MATERIAL CONTENT AND PHYSICAL FORM
   Electrical connectors do not usually contain hazardous materials. They contain conducting and non-conducting materials and can be divided into two groups.

   a) Printed circuit types and low cost audio types which employ all plastic insulators and casings.

   b) Rugged, Fire Barrier and High Reliability types with metal casings and either natural rubber, synthetic rubber, plastic or glass insulating materials.

   Contact materials vary with type of connector and also application and are usually manufactured from either copper, alloys, nickel, alumel, chromel or steel. In special applications, other alloys may be specified.

2. FIRE CHARACTERISTICS AND ELECTRIC SHOCK HAZARD
   There is no fire hazard when the connector is correctly wired and used within the specified parameters.
   Incorrect wiring or assembly of the connector or careless use of metal tools or conductive fluids, or transit damage to any of the component parts may cause electric shock or burns. Live circuits must be broken by separating mated connectors as this may cause arcing, ionisation and burning.
   Heat dissipation is greater at maximum resistance in a circuit. Hot spots may occur when resistance is raised locally by damage, e.g. cracked or deformed contacts, broken strangs of wire. Local overheating may also result from the use of the incorrect application tools or from poor quality soldering or slack screw terminals. Overheating may occur if the ratings in the Product Data Sheet/ Catalogue are exceeded and can cause breakdown of insulation and hence electric shock.
   If heating is allowed to continue it intensifies by further increasing the local resistance through loss of temper of spring contacts, formation of oxide film on contacts and wires, and leakage currents through carbonisation of insulation and tracking paths. Fire can then result in the presence of combustible materials and this may release noxious fumes. Overheating may not be visually apparent. Burns may result from touching overheated components.
3. HANDLING
   Care must be taken to avoid damage to any component parts of electrical connectors during installation and use. Although there are normally no sharp edges, care must be taken when handling certain components to avoid injury to fingers.
   Electrical connectors may be damaged in transit to the customers, and damage may result in creation of hazards. Products should therefore be examined prior to installation/use and rejected if found to be damaged.

4. DISPOSAL
   Incineration of certain materials may release noxious or even oxid fumes.

5. APPLICATION
   Connectors with exposed contacts should not be selected for use on the current supply side of an electrical circuit, because an electric shock could result from touching exposed contacts on an unmated connector. Voltages in excess of 30 V ac or 42.5 V dc are potentially hazardous and care should be taken to ensure that such voltages can not be transmitted in any way to exposed metal parts of the connector body. The connector and wiring should be checked, before making live, to have no damage to metal parts of insulators, no solder blobs, loose strands, conducting lubricants, swarf, or any other undersired conducting particles. Insulation resistance should be checked to make certain that no low resistance joints or spurious conducting path are existing between contacts and exposed metal parts of the connector body. Further the contact resistance of the connectors should be measured within the electrical circuit in order to identify high resistances which result in excessive connector heating.
   Always use the correct application tools as specified in the Data Sheet/Catalogue.

   Do not permit untrained personnel to wire, assemble or tramper with connectors.

   For operation voltage please see appropriate national regulations

IMPORTANT GENERAL INFORMATION.

1. Air and creepage paths/Operating voltage
   The admissible operating voltages depend on the individual applications and the valid national and other applicable safety regulations.

   For this reason the air and creepage path date are only reference values. Observe reduction of air and creepage paths due to PC board and/or harnessing.

2. Temperature
   All information given are temperature limits. The operation temperature depends on the individual application.

3. Other important information
   Cannon continuously endeavours to improve their products. Therefore, Cannon products may deviate from the description, technical data and shape as shown in this catalogue and data sheets.

4. Harnessing and Assembly Instructions
   If applicable, our special harnessing and/or assembly instruction has to be adhered to. This is provided at request.

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