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cannon

KPT / KPSE / KPTC Connectors

In Accordance with VG95328



ITT

ENGINEERED FOR LIFE

We Connect

When it matters most

For more than a century, ITT Cannon has developed innovative interconnect solutions for the world's harshest environments. With facilities in the United States, Germany, Italy, Mexico, China and Japan, each with its unique strengths, we offer our customers interconnect solutions that are truly Engineered for Life.

In addition to this truly global footprint, we offer highly specialized, segmented industry expertise. We have a proven track record as an industry leader in harsh-environment applications. This has equipped us with the knowledge needed to continue to produce the most resilient, reliable connectors for our customers' most challenging conditions.

Interconnect solutions for the harshest environments.

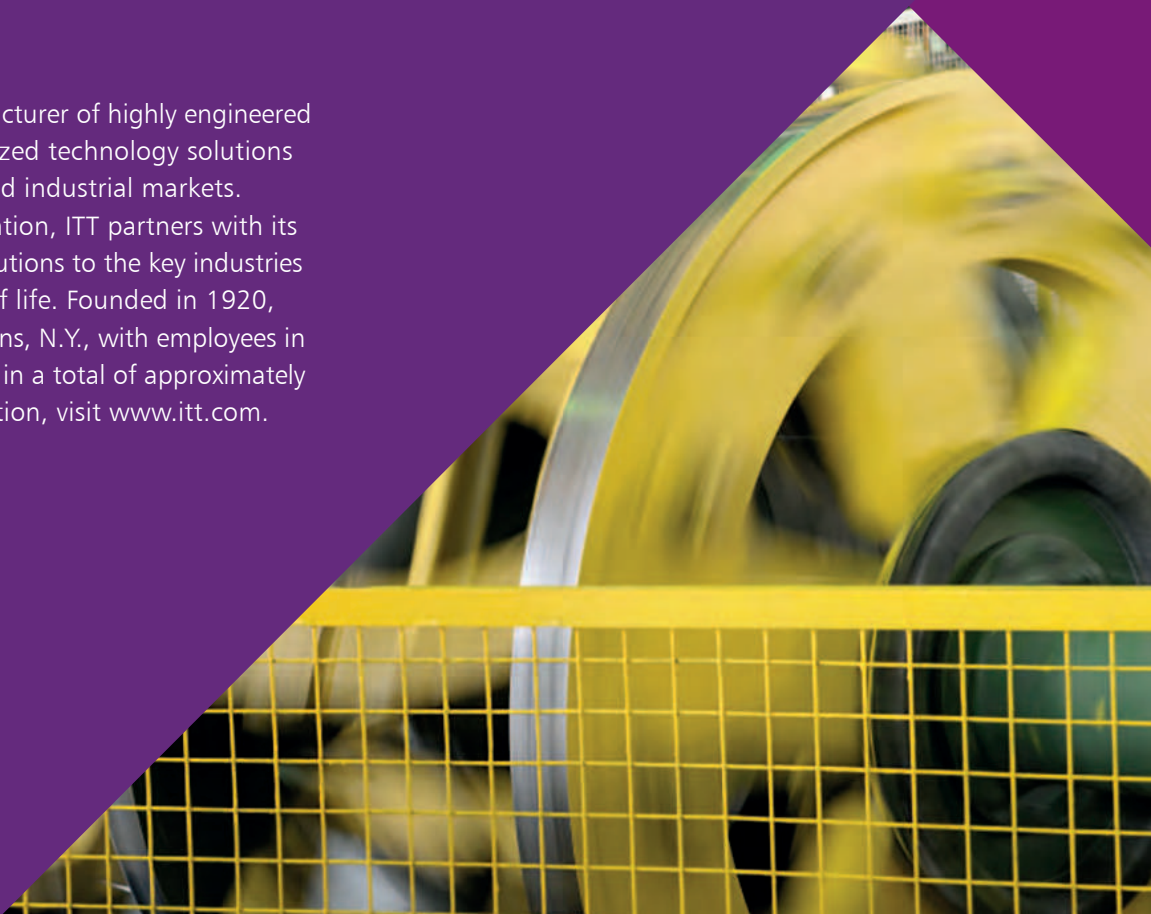
The ITT Cannon difference

- Global capabilities & local support
- Proven application expertise
- A century of interconnect leadership
- A committed innovator & business partner

The logo for Cannon, featuring the word "cannon" in a lowercase, sans-serif font. The letter "o" is replaced by a stylized icon of a gun barrel with three bullet holes.

About ITT

ITT is a diversified leading manufacturer of highly engineered critical components and customized technology solutions for the energy, transportation and industrial markets. Building on its heritage of innovation, ITT partners with its customers to deliver enduring solutions to the key industries that underpin our modern way of life. Founded in 1920, ITT is headquartered in White Plains, N.Y., with employees in more than 35 countries and sales in a total of approximately 125 countries. For more information, visit www.itt.com.





Industrial / Instrumentation



Defense Vehicles



Medical



Heavy Equipment



Rail



Oil & Gas



Commercial & Military Aerospace

Our connector portfolio remains the most extensive

in the industry, offering a reliable and cost effective range of interconnect solutions

Introduction to KPSE / KPT / KPTC

ITT Cannon's KPSE / KPT and KPTC series of miniature positive bayonet locking connectors offer a range of high-density signal solutions. They are designed according to MIL-DTL-26482 Series I or VG95328 – details below. Next to the original use in military vehicles these connector series have become a standard for Industrial uses as eg. off-road vehicles, sensors, factory equipment and other heavy industry applications.

All three product lines have specific characteristics and provide a set of unique variants, however, all lines are fully intermateable with each other as well as any other connector series designed to MIL-DTL 26482 Series I or VG95238 standards.

Product Series	Origin	VG 95328 Approved	MIL-DTL 26482 Series I Approved
KPSE	German make/origin	Yes	No
KPSE	US make/origin	No	No
KPT	German make/origin	No	No
KPT	US make/origin	No	No
KPTC	German make/origin	No	No

KPSE is the high-performance crimp contact solution featuring a clip-in retention system for fast and simple assembly. ITT Cannon is approved to offer this line with VG marking according to VG95328.

KPT is the first of two general duty series, and equipped with solder pot contacts and glued in contacts. This makes this product ideal for any prototype solution as well as for military vehicle applications based on the MIL-DTL-268482 Series I standard.

KPTC is the second ITT Cannon general duty series with either crimp or solder pot contact versions. In comparison this series comes with a simpler design and avoids the high-performance clip-in solution of KPSE as well as the glued contact assembly of KPT which makes this line a good choice for many Industrial applications.

Both KPTC as well as KPT add typical Industrial back shells to their portfolio.

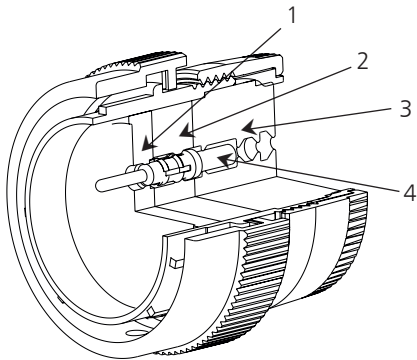
Common features of KPSE / KPT / KPTC:

- ▶ Intermateability with all product lines designed to MIL-DTL-26482 Series I
- ▶ Environmental sealing to IP67 and IP68
- ▶ ½ turn positive bayonet coupling for quick mating & unmating
- ▶ Shielded backshell accessories
- ▶ A range of RoHS compliant plating alternatives to Cadmium including Nickel, Zinc Nickel and Zinc Cobalt versions
- ▶ Customizing options

This document solely applies to European manufactured KPT / KPSE / KPTC products.

Contact Principle

CONTACT & SEALING PRINCIPLE



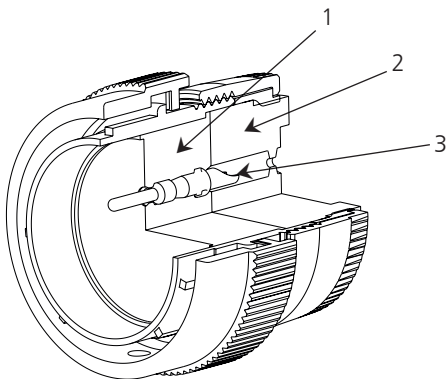
KPSE uses a three piece insulator stack up consisting of

- 1 - rubber insulator
- 2 - plastic wafer / retaining clips
- 3 - rubber grommet to seal individual wires
- 4 - two piece machined contact with retaining clip

Rubber insulator (1) and grommet (3) together with the front sealing ring provide the sealing in mated condition as well as the sealing of individual wires protruding through the grommet.

Contact retention is provided using a two piece contact with retaining clip. The stiff plastic wafer or individual metal clips provide the specified contact retention. A good tactile response is given when contacts are pushed in the final assembly position.

Contacts are installed from the rear by hand or with an insertion tool to ease assembly. Contact removal is done with an extraction tool from the front.

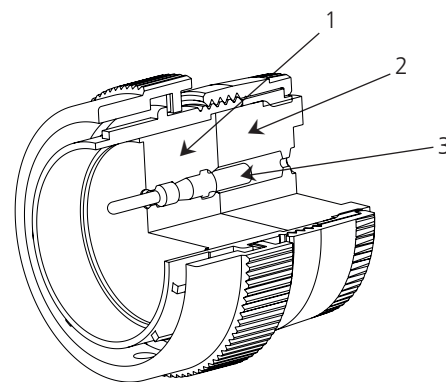


KPT uses a rubber insulator and sealing grommet

- 1 - rubber insulator
- 2 - rubber grommet to seal individual wires
- 3 - one piece machined contact

Rubber insulator (1) and grommet (2) together with the front sealing ring provide the sealing in mated condition as well as the sealing of individual wires protruding through the grommet.

Contact retention is provided by form fit of the machined contact in the rubber insulator. Additionally, glue is applied to secure contacts in the exact mounting position. KPT is equipped with solder pot contacts only and pre installed by the factory.



KPTC uses a rubber insulator and sealing grommet

- 1 - rubber insulator
- 2 - rubber grommet to seal individual wires
- 3 - one piece machined contact

Rubber insulator (1) and grommet (2) together with the front sealing ring provide the sealing in mated condition as well as the sealing of individual wires protruding through the grommet.

Contact retention is provided by form fit of the machined contact in the rubber insulator. Solder pot contacts are pre-installed by the factory, crimp contacts are delivered separately. Glue is not applied to KPTC connectors.

Contacts are installed from the rear with an insertion tool. Contact removal is done with an extraction tool from the front.

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How to use

This catalog is split in several sections that help you to

- get a general overview of all product lines (product overview)
- create a product part number step by step (ordering reference)
- get all required detail information (dimensions, product details)
- get all required support products (accessories, tooling)

The fastest way to find your product of choice is to follow these steps

1 **Select your product** using the “ordering reference” option

3 **Add accessories and tooling** as required on the related pages

2 **Use the detail pages** to better understand the available options and choose the best solution for your needs

4 **Use the contact information** on the back cover to contact us for further questions or to get advice on where you can purchase our products

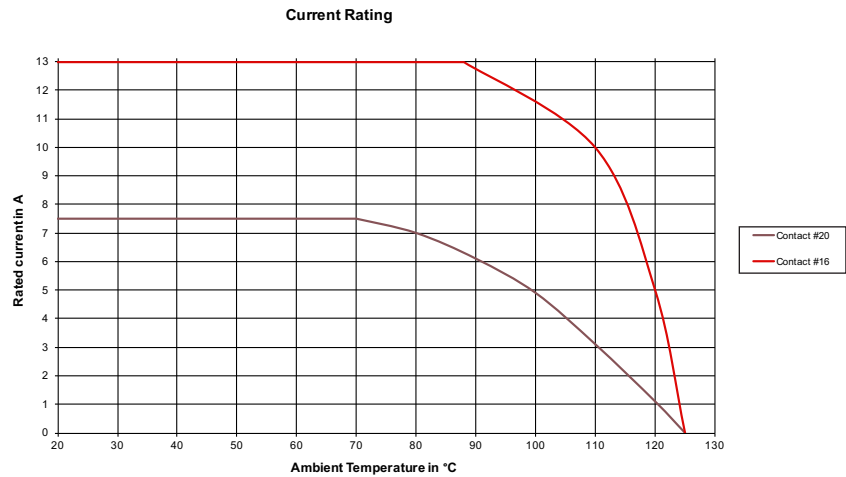
Product overview KPSE (VG95328), KPT, KPTC

Electrical Data

Contact rating at 60°C:

Size	Rated current A	Test current A	Millivolt drop mV
20	7,5	7,5	Less than 50
16	13,0	13,0	Less than 50

Current rating vs. ambient temperature:



Comment for contact rating and current rating:

Rated current values shown are the max. current flowing continuously (not intermittently) through one contact pair with the same cross section with regard to ambient temperature. If multiple contact pairs are loaded into a connector the current rating curve has to be reduced.

Minimum air & creepage paths:

	Contact to contact crimp	Contact to contact solder	Contact to shell
Service Class 1	1,9 mm	0,75 mm	1,0 mm
Service Class 2	2,8 mm	1,53 mm	2,8 mm

Insulation resistance: ~ 5000 MOhm

Operating voltage:

Service class	VG95328	MIL-C-26482
1	140 VDC/100 VAC	850 VDC/600 VAC
2	165 VDC/115 VAC	1400 VDC/1000 VAC

Comment: When connectors in this catalog are used at voltages exceeding > 50VAC / 75VDC safety provisions as defined in the European low voltage directive 2014/35/EU have to be adhered to. For use in other regions see appropriate local regulations.

Test voltage:

Test voltage	Service class	Vrms	VDC
Service Class 1	1	1500	2100
	2	2300	3200
21336 M/70,000ft.	1	375	535
	2	550	770

Mechanical data

Ambient temperature: -55°C ... 125°C

Environmental sealing:

In mated condition for KPSE, KPT and KPTC product lines:	IP67 acc. ISO 20653
VG95328 connectors:	IP68 (0,2bar / 48h) – see below
According to VG95319 Part 2, Test No. 5.9.2 For styles A to E and Z1, Z2 and Z3 and gaskets style A only, test pressure 0,2 bar overpressure, test duration 48h, test temperature 25±3°C, connector shall be free of moisture	

Vibration test acc. VG95328:

Vibration stress 150 m/s², 10 Hz to 2000 Hz
and Random vibration stress, 5 Hz to 500 Hz acc. test 5.52 VG95328-1

Mating cycles: 500

Material:

Shell	Aluminium alloy
Shell finishes	- Cadmium, VG approved - ZnCobalt Black - Zinc Cobalt Green - Zinc Nickel Blue Generation, for non-shielded versions - Nickel
Insulator	Polychloroprene
Grommet and seals	
Contacts	Copper alloy, gold and silver plating

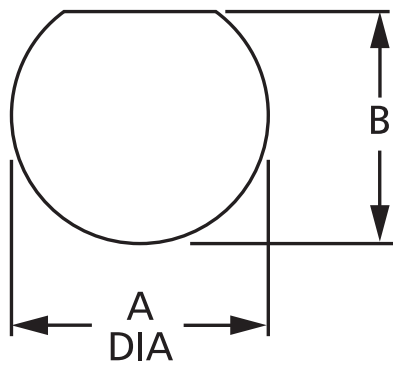
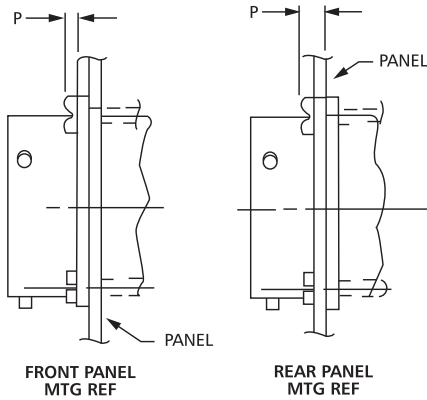
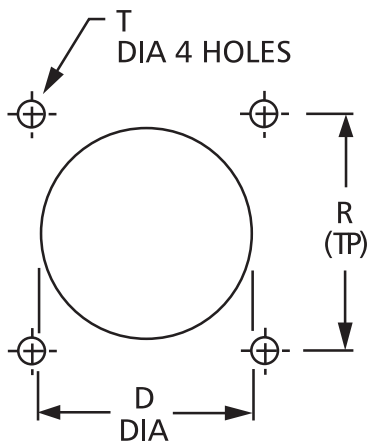
Product line design principles:

KPSE: Clip in crimp contact system, VG approved versions

KPT: Solder contacts, pre-installed and fixed with glue, VG approved versions

KPTC: Crimp contacts for tool insertion OR pre-installed solder contacts (not fixed with glue)

All further details, product line options etc. see following catalog pages



BOX MOUNTING RECEPTACLE

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

PANEL THICKNESS

Shell size	P – Panel thickness Height of screw head included
8	2,2
10	2,2
12	2,2
14	2,2
16	2,2
18	2,2
20	5,4
22	5,4
24	5,4

JAM NUT RECEPTACLE

Shell size	KPT/KPSE $\varnothing A +0,25/-0$	KPT/KPSE $B +0/-0,12$
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	32,0	30,4
20	35,1	33,6
22	38,4	36,8
24	41,5	40,0

How to order

Cannon Order reference



KPT / KPSE / KPTC

KP.. 02 E 22-36 P W *

Series	
KPSE – Cannon prefix crimp, contacts supplied	KP..
KPT – Cannon prefix solder, contacts installed	
KPTC – Cannon prefix commercial version, contacts to be ordered separately. See modification codes for contact options	
Shell type (See note below)	
Cannon designation omit 0 in case of a mod code and KPTC	
00 – wall mounting receptacle	see page 18-20
01 – cable connecting plug	see page 21-23
02 – box mounting receptacle (class E only).	see page 23-24
06 – straight plug	see page 24-27
07 – jam nut receptacle	see page 28-30
08 – 90° angle plug	see page 31
KPTB - thru-bulkhead receptacle	see page 24
Class	
A – Endbell with thread, no grommet seal; for jam nut: without endbell	E
E – Pressure nut and grommet seal - for 90° versions: endbell with thread, and grommet seal – with modification DN: Endbell for heat shrink boot and grommet seal – with modification DZ: Endbell for heat shrink boot and grommet seal, shielded	
F – Endbell with cable clamp and grommet seal	
PG – endbell for PG glands	
ME – endbell for metric glands	
Shell size	
8 – 24	22-36
Contact arrangement	see page 14-16
Contact type	
P – pin	P
S – socket	
Alternate insert position	
W, X, Y and Z (omit for normal position)	W
Modification	see page 12
	*

Note:

* If a modification is used the initial ,0' in the shell style description is omitted e.g. KPT01E10-6P is changed to KPT1E10-6P-DN.
KPTC series does not use the initial ,0' e.g. KPTC6E10-6P-C.

Modification Codes

KPT:	
Multiple codes can be used in order of listing below:	
Contact	
PCB solder pin 0,76 x 7mm (style 02 and 07 only)	EX
PCB solder pin 0,6 x 7mm (style 02 and 07 only)	EW
Endbell	
heat shrink boot adapter, grommet seal	DN
shielded, heat shrink boot adapter, grommet seal	DZ
without endbell, grommet and ferrule	F42*
Endbell for PG cable gland, class PG only	
PG09 thread for connectors with shell size 10	P9
PG11 thread for connectors with shell size 12	P11
PG13,5 thread for connectors with shell size 14	P13,5
PG16 thread for connectors with shell size 16	P16
PG21 thread for connectors with shell size 18, 20, 22	P21
PG29 thread for connectors with shell size 24	P29
Endbell for Metric cable gland, class ME only	
M12 thread for connectors with shell size 10	M12
M16 thread for connectors with shell size 12	M16
M20 thread for connectors with shell size 16	M20
M25 thread for connectors with shell size 18, 20	M25
M32 thread for connectors with shell size 22, 24	M32
Plating (Cadmium with olive drab chromate plating is standard - without code; Alternative platings below)	
Zinc Cobalt, black plating (RoHS compliant)	A232
Zinc Nickel plating (RoHS compliant) (not for code DZ)	A240
Zinc Cobalt, green plating (RoHS compliant)	A233
Nickel plating (RoHS compliant)	A34

An example using these modifications:
KPT2E10-6P-EW-A232

* Note: Modification -F42 can only be used with Styles 0, 1, 6, 7 and 8. See details on pg 13

KPSE:	
Multiple codes can be used in order of listing below:	
Endbell	
heat shrink boot adapter, grommet seal	DN
shielded, heat shrink boot adapter, grommet seal	DZ
without endbell, grommet and ferrule	F42*
Endbell for PG cable gland, class PG only	
PG09 thread for connectors with shell size 10	P9
PG11 thread for connectors with shell size 12	P11
PG13,5 thread for connectors with shell size 14	P13,5
PG16 thread for connectors with shell size 16	P16
PG21 thread for connectors with shell size 18, 20, 22	P21
PG29 thread for connectors with shell size 24	P29
Endbell for Metric cable gland, class ME only	
M12 thread for connectors with shell size 10	M12
M16 thread for connectors with shell size 12	M16
M20 thread for connectors with shell size 16	M20
M25 thread for connectors with shell size 18, 20	M25
M32 thread for connectors with shell size 22, 24	M32
Plating (Cadmium with olive drab chromate plating is standard - without code; Alternative platings below)	
Zinc Cobalt, black plating (RoHS compliant)	A232
Zinc Nickel plating (RoHS compliant) (not for code DZ)	A240
Zinc Cobalt, green plating (RoHS compliant)	A233
Nickel plating (RoHS compliant)	A34
Contact	
Connector without contacts	F0

An example using these modifications:
KPSE7F16-8S-A240-F0

* Note: Modification -F42 can only be used with Styles 0, 1, 6, 7 and 8. See details on pg 13

KPTC:	
Multiple codes can be used in order of listing below:	
Plating	
Nickel plating (RoHS compliant)	C
Zinc Cobalt black plating (RoHS compliant)	R
Zinc Cobalt green plating (RoHS compliant)	F
Zinc Nickel plating (RoHS compliant) (not for code DZ)	H
Cadmium with olive drab chromate	D
Endbell	
heat shrink boot adapter, grommet seal	DN
shielded, heat shrink boot adapter, grommet seal	DZ
without endbell, grommet and ferrule	F42*
Endbell for PG cable gland, class PG only	
PG09 thread for connectors with shell size 10	P9
PG11 thread for connectors with shell size 12	P11
PG13,5 thread for connectors with shell size 14	P13,5
PG16 thread for connectors with shell size 16	P16
PG21 thread for connectors with shell size 18, 20, 22	P21
PG29 thread for connectors with shell size 24	P29
Endbell for Metric cable gland, class ME only	
M12 thread for connectors with shell size 10	M12
M16 thread for connectors with shell size 12	M16
M20 thread for connectors with shell size 16	M20
M25 thread for connectors with shell size 18, 20	M25
M32 thread for connectors with shell size 22, 24	M32
Contact	
Connector supplied with solder pot contacts installed	MA
Connector supplied with crimp contacts	MB
PCB solder pin 0,76 x 7mm (style 02 and 07 only)	EX
PCB solder pin 0,6 x 7mm (style 02 and 07 only)	EW

An example using these modifications:
KPTC6F14-18P-H-MB

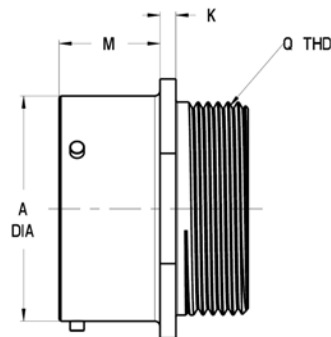
* Note: Modification -F42 can only be used with Styles 0, 1, 6, 7 and 8. See details on pg 13

Endbell Modification -F42

Below table shows the different threads that come with the respective shell sizes when choosing the modification -F42 (no endbell/grommet seal).

This modification is only applicable to styles 0 (wall mounting receptacle), 1 (cable connecting plug), 6 (straight plug), 7 (jam nut receptacle) and 8 (90° angle plug). The only exception being KP*7A, as this combination already has no endbell/grommet.

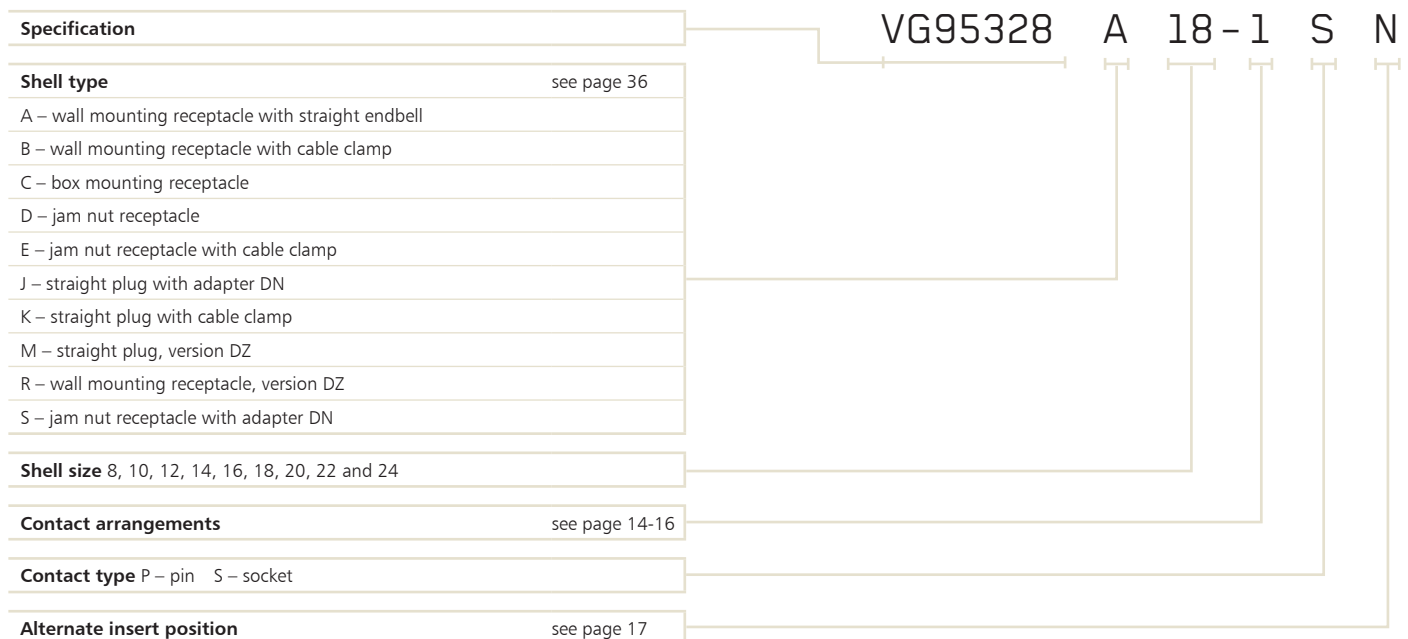
Shell size	Thread
8	7/16-28UNEF
10	9/16-24UNEF
12	11/16-24UNEF
14	13/16-20UNEF
16	15/16-20UNEF
18	1-1/16-18UNEF
20	1-3/16-18UNEF
22	1-5/16-18UNEF
24	1-7/16-18UNEF



Drawing shows KP*1 Style

How to order

VG Order reference



CONTACT ARRANGEMENTS

View on mating face of pin insulator	No. of contacts	Contact arrangements	Service rating	Insulator position			
		Contact size AWG		W	X	Y	Z
	2	8-2 ▲△ 20	1	58	122	-	-
	3	8-3 ▲△ 20	1	60	210	-	-
	3	8-3A ▲◆◇ 20	1	60	-	-	-
	3	8-33 ▲◆△ 20	1	90	-	-	-
	4	8-4 ▲△ 20	1	45	-	-	-
	6	10-6 ▲◆△◇ 20	1	90	-	-	-
	7	10-7 ▲△ 20	1	90	-	-	-
	6	10-98 ▲△ 20	1	90	180	240	270
	3	12-3 ▲◆△◇ 16	2	-	-	180	-
	8	12-8 ▲△ 20	1	90	112	203	292
	10	12-10 ▲◆△◇ 20	1	60	155	270	295
	14	12-14 ▲△ 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	-	-

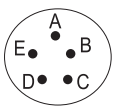
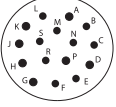
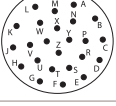
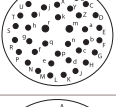
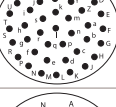
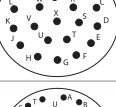
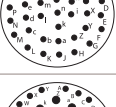
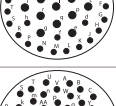
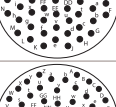

Legend ▲KPT ◆KPSE △KPTC ●authorized per VG95328

CONTACT ARRANGEMENTS

View on mating face of pin insulator	No. of contacts	Contact arrangements	Service rating	Insulator position			
		Contact size AWG		W	X	Y	Z
	15	14-15 ▲•△◇ 20 (14) 16 (1)	1	17	110	155	234
	18	14-18 ▲△ 20	1	15	90	180	270
	19	14-19 ▲•△◇ 20	1	30	165	315	–
	5	14-22 ◇ 12 (4) 20 (1)	1	–	–	–	–
	4	14A4 ▲ Coax RG 188 U (not for receptacle shell style 02)	1	–	–	–	–
	8	16-8 ▲•△◇ 16	2	54	152	180	331
	23	16-23 ▲•△◇ 20 (22) 16 (1)	1	158	–	–	–
	26	16-26 ▲•△◇ 20	1	60	–	275	338
	11	18-11 ▲•△◇ 16	2	62	119	241	340
	32	18-32 ▲•△◇ 20	2	85	138	222	265

Legend ▲KPT ◇KPSE △KPTC •authorized per VG95328

CONTACT ARRANGEMENTS

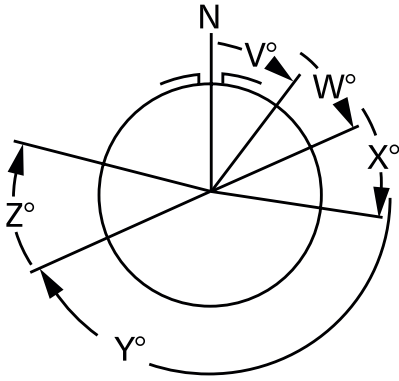
View on mating face of pin insulator	No. of contacts	Contact arrangements	Service rating	Insulator position			
		Contact size AWG		W	X	Y	Z
	5	20A6 ◇ 12 Note: contacts are 1 grounding pin and 4 standard size 12 pins	2	90	180	270	-
	16	20-16 ▲•△◇ 16	2	238	318	333	347
	24	20-24 ▲△ 20	1	70	145	215	290
	39	20-39 ▲•△◇ 20 (37) 16 (2)	1	63	144	252	333
	41	20-41 ▲•△◇ 20	1	45	126	225	w-
	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
	61	24-61 ▲•△◇ 20	1	90	180	270	324

Legend ▲KPT ◇KPSE △KPTC •authorized per VG95328

ALTERNATE INSERT POSITION

The diagram indicates alternate insert positions.

The six positions N, V, W, X, 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.

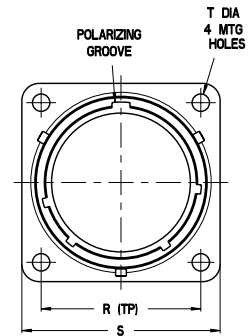
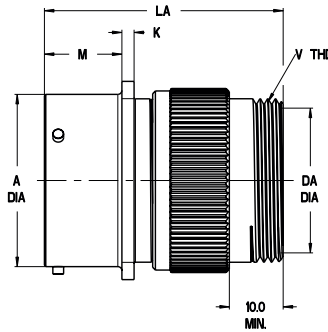


Shell size	No. of contacts	Contact arrangements	Degree of Rotation				
			V	W	X	Y	Z
8	2	8-2	-	58	122	-	-
	3	8-3	-	60	210	-	-
	3	8-3A	-	60	-	-	-
	3	8-33	-	90	-	-	-
	4	8-4	-	45	-	-	-
10	6	10-6	-	90	-	-	-
	7	10-7	-	90	-	-	-
	6	10-98	-	90	180	240	270
12	3	12-3	-	-	-	180	-
	8	12-8	-	90	112	203	292
	10	12-10	-	60	155	270	295
	14	12-14	-	60	155	270	295
14	4	14A4	-	-	-	-	-
	5	14-5	-	40	92	184	273
	12	14-12	-	43	90	-	-
	15	14-15	-	17	110	155	234
	18	14-18	-	15	90	180	270
	19	14-19	-	30	165	315	-
	5	14-22	-	-	-	-	-
16	8	16-8	-	54	52	180	331
	23	16-23	-	158	-	-	-
	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	144	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 standard contacts and one is a first-to-mate contact.

WALL MOUNTING RECEPTACLES KPT00A / KPSE00A / KPTC0A

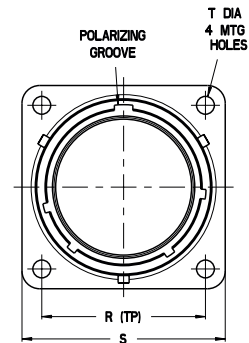
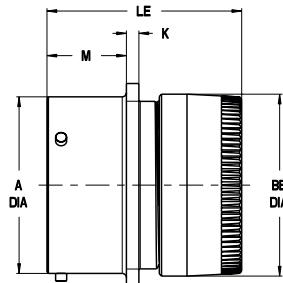
Description: Wall Mounting Receptacle with an endbell with thread, no grommet seal.



Shell size	$\varnothing A$ +0,03 - 0,13	K $\pm 0,1$	M $\pm 0,15$	R $\pm 0,15$	S max.	$\varnothing T$ $\pm 0,15$	$\varnothing Da$ min.	La max.	V _{THD} Thread Type 2A
8	12,00	1,9	11,6	15,1	21,0	3,05	8,5	38,0	1/2-28UNEF
10	15,00	1,9	11,6	18,3	24,2	3,05	11,8	38,0	5/8-24UNEF
12	19,05	1,9	11,6	20,6	26,6	3,05	15,0	38,0	3/4-20UNEF
14	22,23	1,9	11,6	23,0	29,0	3,05	17,9	38,0	7/8-20UNEF
16	25,40	1,9	11,6	24,6	31,3	3,05	21,1	38,0	1-20UNEF
18	28,58	1,9	11,6	27,0	33,7	3,05	24,1	38,0	1-3/16-18UNEF
20	31,75	2,2	14,25	29,4	36,9	3,05	26,5	43,1	1-3/16-18UNEF
22	34,93	2,2	14,25	31,8	40,1	3,05	30,4	43,1	1-7/16-18UNEF
24	38,10	2,2	15,1	34,9	43,3	3,75	32,8	43,1	1-7/16-18UNEF

WALL MOUNTING RECEPTACLES KPT00E / KPSE00E / KPTC0E

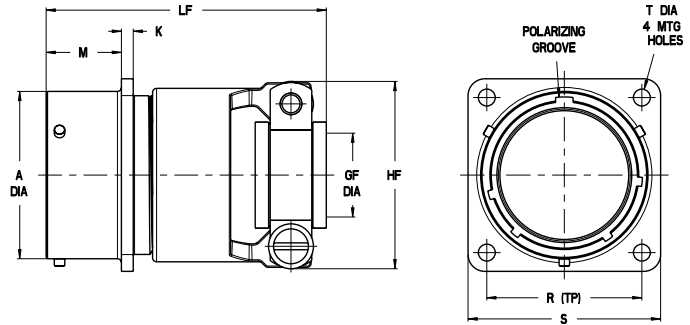
Description: Wall Mounting Receptacle with pressure nut and grommet seal.



Shell size	$\varnothing A$ +0,03 - 0,13	K $\pm 0,1$	M $\pm 0,15$	R $\pm 0,15$	S max.	$\varnothing T$ $\pm 0,15$	$\varnothing Be$ max.	Le max.
8	12,00	1,9	11,6	15,1	21,0	3,05	14,2	32,5
10	15,00	1,9	11,6	18,3	24,2	3,05	17,2	32,5
12	19,05	1,9	11,6	20,6	26,6	3,05	20,4	32,5
14	22,23	1,9	11,6	23,0	29,0	3,05	23,4	32,5
16	25,40	1,9	11,6	24,6	31,3	3,05	26,6	32,5
18	28,58	1,9	11,6	27,0	33,7	3,05	29,6	32,5
20	31,75	2,2	14,25	29,4	36,9	3,05	32,8	34,5
22	34,93	2,2	14,25	31,8	40,1	3,05	36,0	34,5
24	38,10	2,2	15,1	34,9	43,3	3,75	39,2	34,5

WALL MOUNTING RECEPTACLES KPT00F / KPSE00F / KPTC0F

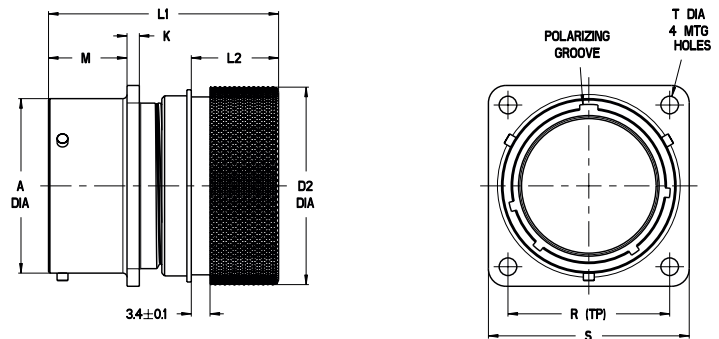
Description: Wall Mounting Receptacle with endbell, cable clamp and grommet seal.



Shell size	$\varnothing A$ +0,03 - 0,13	K $\pm 0,1$	M $\pm 0,15$	R $\pm 0,15$	S max.	$\varnothing T$ $\pm 0,15$	$\varnothing G_F$ min.	H _F max.	L _F max.
8	12,00	1,9	11,6	15,1	21,0	3,05	2,9	19,3	56,0
10	15,00	1,9	11,6	18,3	24,2	3,05	4,5	20,8	56,0
12	19,05	1,9	11,6	20,6	26,6	3,05	7,7	24,4	56,0
14	22,23	1,9	11,6	23,0	29,0	3,05	9,3	27,2	56,0
16	25,40	1,9	11,6	24,6	31,3	3,05	12,4	28,7	56,0
18	28,58	1,9	11,6	27,0	33,7	3,05	15,6	35,3	56,0
20	31,75	2,2	14,25	29,4	36,9	3,05	15,6	35,3	61,0
22	34,93	2,2	14,25	31,8	40,1	3,05	18,8	39,9	61,0
24	38,10	2,2	15,1	34,9	43,3	3,75	20,1	43,2	61,0

WALL MOUNTING RECEPTACLES KPT0E / KPSE0E / KPTC0E ... DN

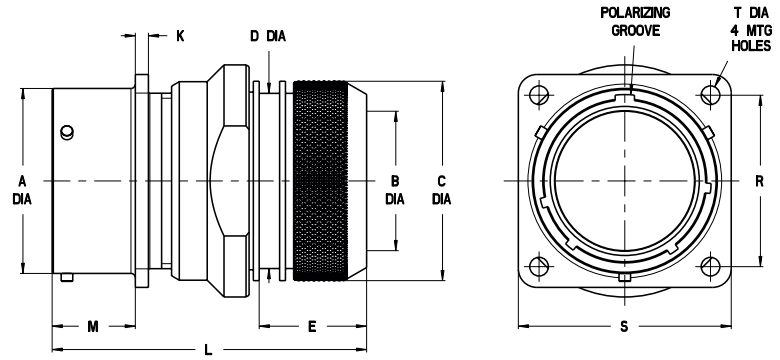
Description: Wall Mounting Receptacle with endbell for heat shrink boot and grommet seal.



Shell size	$\varnothing A$ +0,03 - 0,13	K $\pm 0,1$	M $\pm 0,15$	R $\pm 0,15$	S max.	$\varnothing T$ $\pm 0,15$	$\varnothing D_2$ -0,5	L ₁ max.	L ₂ $\pm 0,5$
8	12,00	1,9	11,6	15,1	21,0	3,05	15,6	35,0	12,2
10	15,00	1,9	11,6	18,3	24,2	3,05	18,4	35,0	12,2
12	19,05	1,9	11,6	20,6	26,6	3,05	23,7	35,0	12,2
14	22,23	1,9	11,6	23,0	29,0	3,05	24,5	35,0	12,2
16	25,40	1,9	11,6	24,6	31,3	3,05	29,8	37,0	14,5
18	28,58	1,9	11,6	27,0	33,7	3,05	32,0	37,0	14,5
20	31,75	2,2	14,25	29,4	36,9	3,05	36,1	42,0	15,8
22	34,93	2,2	14,25	31,8	40,1	3,05	38,5	42,0	15,8
24	38,10	2,2	15,1	34,9	43,3	3,75	41,6	42,0	14,9

WALL MOUNTING RECEPTACLES KPT0E/KPSE0E/KPTC0E... DZ

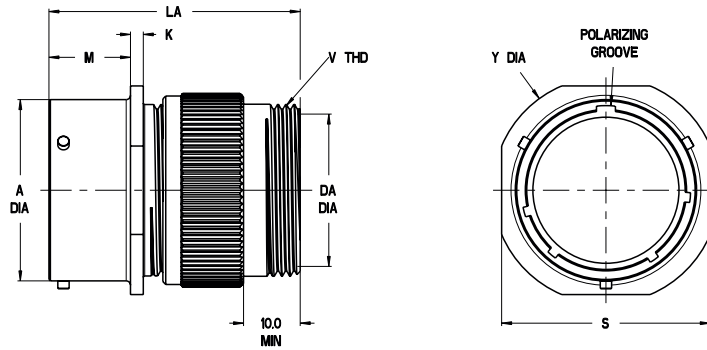
Description: Wall Mounting Receptacle with endbell for heat shrink boot and grommet seal, shielded.



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

CABLE CONNECTING PLUGS KPT01A / KPSE01A / KPTC1A

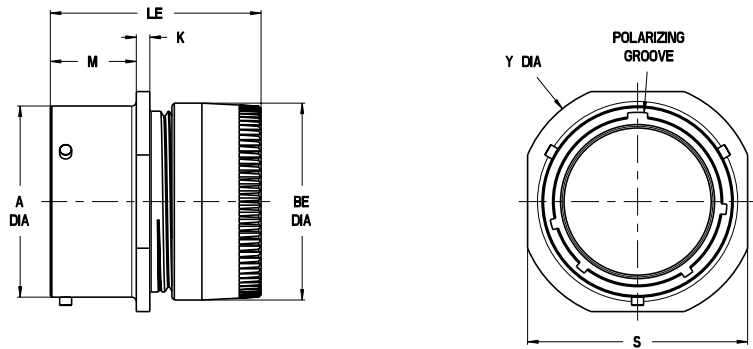
Description: Cable connecting plug with an endbell with thread, no grommet seal.



Shell size	$\varnothing A$ +0,03 – 0,13	K $\pm 0,1$	M $\pm 0,15$	S max.	$\varnothing Y$ $\pm 0,15$	$\varnothing DA$ min.	LA max.	V _{THD} Thread Type 2A
8	12,00	1,9	11,6	20,6	23,8	8,5	38,0	1/2-28UNEF
10	15,00	1,9	11,6	23,8	26,9	11,8	38,0	5/8-24UNEF
12	19,05	1,9	11,6	26,15	29,3	15,0	38,0	3/4-20UNEF
14	22,23	1,9	11,6	28,5	31,7	17,9	38,0	7/8-20UNEF
16	25,40	1,9	11,6	30,7	34,1	21,1	38,0	1-20UNEF
18	28,58	1,9	11,6	33,3	36,5	24,1	38,0	1-3/16-18UNEF
20	31,75	2,2	14,25	36,5	39,6	26,5	43,1	1-3/16-18UNEF
22	34,93	2,2	14,25	39,5	42,8	30,4	43,1	1-7/16-18UNEF
24	38,10	2,2	15,1	42,8	46,0	32,8	43,1	1-7/16-18UNEF

CABLE CONNECTING PLUGS KPT01E / KPSE01E / KPTC1E

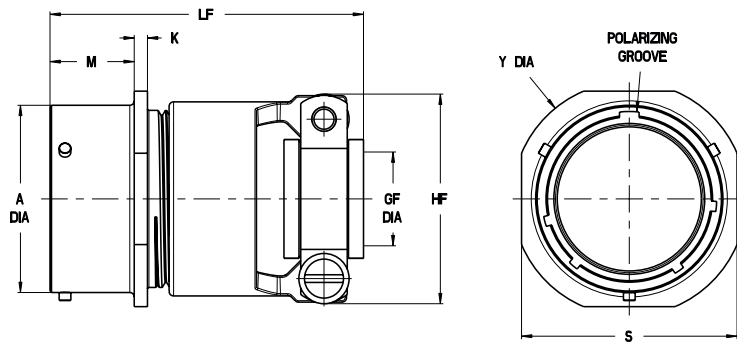
Description: Cable connecting plug with pressure nut and grommet seal.



Shell size	$\varnothing A$ +0,03 – 0,13	K $\pm 0,1$	M $\pm 0,15$	S max.	$\varnothing Y$ $\pm 0,15$	$\varnothing BE$ max.	LE max.
8	12,00	1,9	11,6	20,6	23,8	14,2	32,5
10	15,00	1,9	11,6	23,8	26,9	17,2	32,5
12	19,05	1,9	11,6	26,15	29,3	20,4	32,5
14	22,23	1,9	11,6	28,5	31,7	23,4	32,5
16	25,40	1,9	11,6	30,7	34,1	26,6	32,5
18	28,58	1,9	11,6	33,3	36,5	29,6	32,5
20	31,75	2,2	14,25	36,5	39,6	32,8	34,5
22	34,93	2,2	14,25	39,5	42,8	36,0	34,5
24	38,10	2,2	15,1	42,8	46,0	39,2	34,5

CABLE CONNECTING PLUGS KPT01F / KPSE01F / KPTC1F

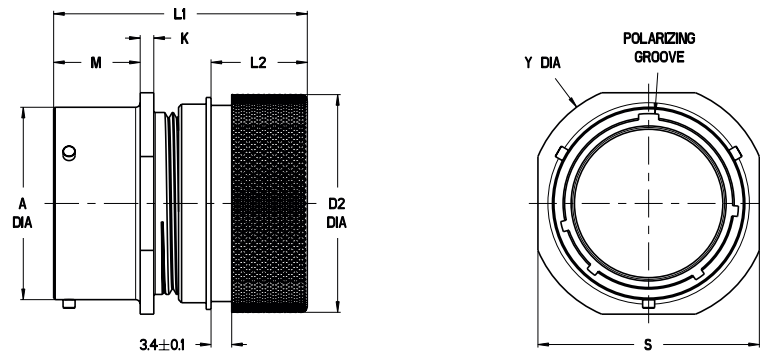
Description: Cable connecting plug with endbell, cable clamp and grommet seal.



Shell size	Ø A +0,03 - 0,13	K ±0,1	M ±0,15	S max.	Ø Y ±0,15	Ø GF min.	Hf max.	LF max.
8	12,00	1,9	11,6	20,6	23,8	2,9	19,3	56,0
10	15,00	1,9	11,6	23,8	26,9	4,5	20,8	56,0
12	19,05	1,9	11,6	26,15	29,3	7,7	24,4	56,0
14	22,23	1,9	11,6	28,5	31,7	9,3	27,2	56,0
16	25,40	1,9	11,6	30,7	34,1	12,4	28,7	56,0
18	28,58	1,9	11,6	33,3	36,5	15,6	35,3	56,0
20	31,75	2,2	14,25	36,5	39,6	15,6	35,3	61,0
22	34,93	2,2	14,25	39,5	42,8	18,8	39,9	61,0
24	38,10	2,2	15,1	42,8	46,0	20,1	43,2	61,0

CABLE CONNECTING PLUGS KPT1E / KPSE1E / KPTC1E ... DN

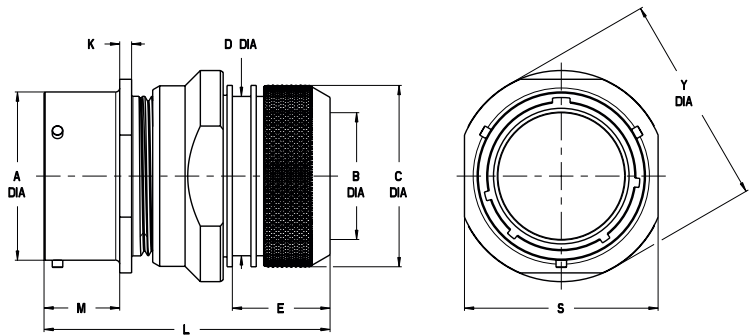
Description: Cable connecting plug with endbell for heat shrink boot and grommet seal.



Shell size	Ø A +0,03 - 0,13	K ±0,1	M ±0,15	S max.	Ø Y ±0,15	Ø D2 -0,5	L1 max.	L2 ±0,5
8	12,00	1,9	11,6	20,6	23,8	15,6	35,0	12,2
10	15,00	1,9	11,6	23,8	26,9	18,4	35,0	12,2
12	19,05	1,9	11,6	26,15	29,3	23,7	35,0	12,2
14	22,23	1,9	11,6	28,5	31,7	24,5	35,0	12,2
16	25,40	1,9	11,6	30,7	34,1	29,8	37,0	14,5
18	28,58	1,9	11,6	33,3	36,5	32,0	37,0	14,5
20	31,75	2,2	14,25	36,5	39,6	36,1	42,0	15,8
22	34,93	2,2	14,25	39,5	42,8	38,5	42,0	15,8
24	38,10	2,2	15,1	42,8	46,0	41,6	42,0	14,9

CABLE CONNECTING PLUGS KPT1E/KPSE1E/KPTC1E... DZ

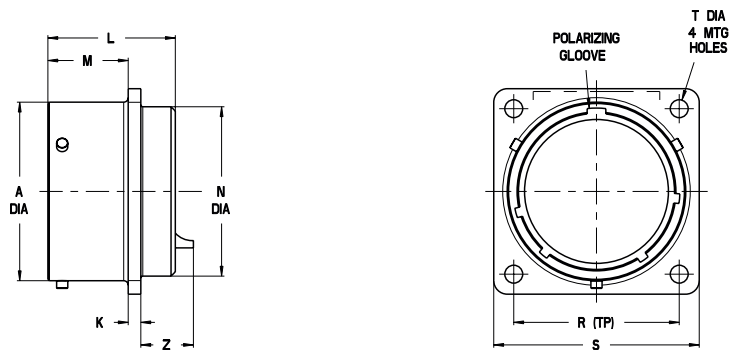
Description: Cable connecting plug with endbell for heat shrink boot and grommet seal, shielded.



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

BOX MOUNTING RECEPTACLES KPT02E/KPSE02E/KPTC2E

Description: box mounting receptacle with through holes in flange.

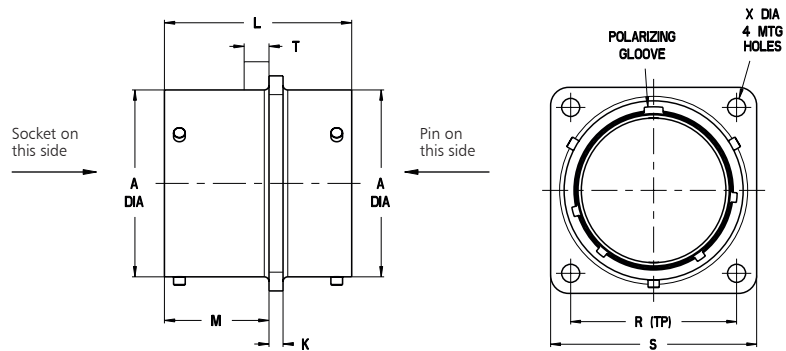


Shell size	KPT/KPSE/KPTC								KPT/KPTC
	$\varnothing A$ +0,03-0,13	L max.	$\varnothing N$ max.	K $\pm 0,1$	M $\pm 0,15$	R $\pm 0,15$	S max.	$\varnothing T$ $\pm 0,15$	Z max.
8	12,00	21,1	11,1	1,9	11,6	15,1	21,0	3,05	12,3
10	15,00	21,1	14,3	1,9	11,6	18,3	24,2	3,05	12,3
12	19,05	21,1	17,5	1,9	11,6	20,6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

THRU-BULKHEAD RECEPTACLES KPTB

Description: Bulkhead receptacle with mounting flange – with through holes.

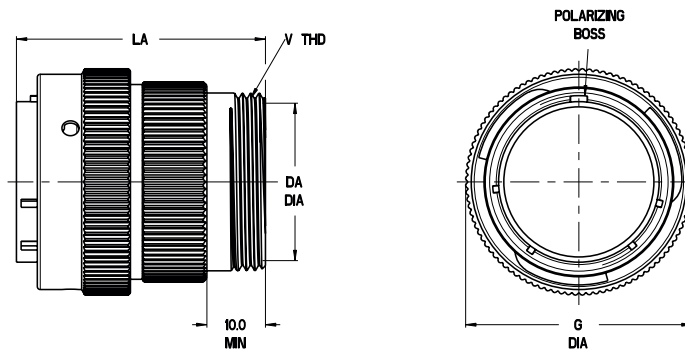
INSERT: For example: KPTB14-19PS



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

STRAIGHT PLUGS KPT06A / KPSE06A / KPTC6A

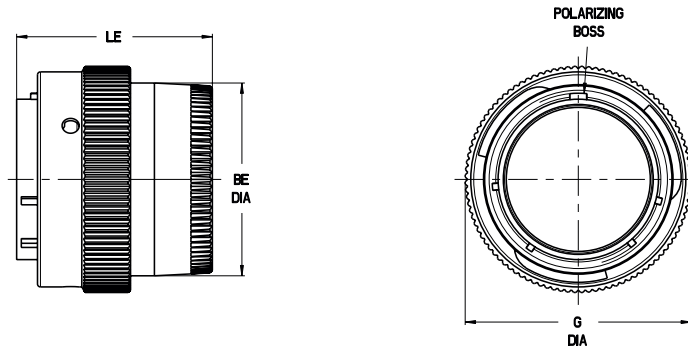
Description: Straight plug with an endbell with thread, no grommet seal.



Shell size	$\varnothing G$ max.	$\varnothing DA$ min.	LA max.	V THD Thread Type 2A
8	19,8	8,5	42,0	1/2-28UNEF
10	23,6	11,8	42,0	5/8-24UNEF
12	26,5	15,0	42,0	3/4-20UNEF
14	30,1	17,9	42,0	7/8-20UNEF
16	33,2	21,1	42,0	1-20UNEF
18	35,4	24,1	42,0	1-3/16-18UNEF
20	39,0	26,5	45,0	1-3/16-18UNEF
22	42,1	30,4	45,0	1-7/16-18UNEF
24	45,2	32,8	45,0	1-7/16-18UNEF

STRAIGHT PLUGS KPT06E / KPSE06E / KPTC6E

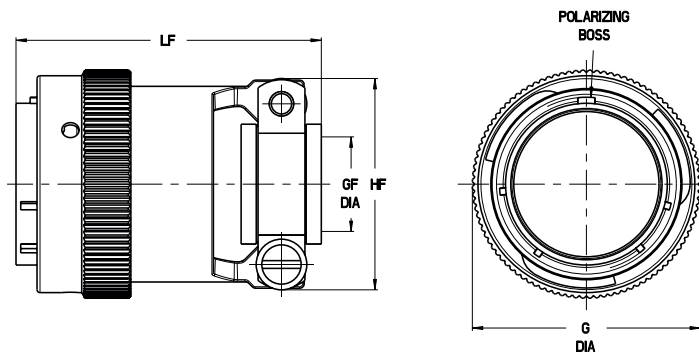
Description: Straight plug with pressure nut and grommet seal.



Shell size	Ø G max.	Ø BE max.	LE max.
8	19,8	14,2	32,5
10	23,6	17,2	32,5
12	26,5	20,4	32,5
14	30,1	23,4	32,5
16	33,2	26,6	32,5
18	35,4	29,6	32,5
20	39,0	32,8	34,5
22	42,1	36,0	34,5
24	45,2	39,2	34,5

STRAIGHT PLUGS KPT06F / KPSE06F / KPTC6F

Description: Straight plug with endbell, cable clamp and grommet seal.



Shell size	Ø G max.	Ø GF min.	HF max.	LF max.
8	19,8	2,9	19,3	56,0
10	23,6	4,5	20,8	56,0
12	26,5	7,7	24,4	56,0
14	30,1	9,3	27,2	56,0
16	33,2	12,4	28,7	59,0
18	35,4	15,6	35,3	59,0
20	39,0	15,6	35,3	59,0
22	42,1	18,8	39,9	59,0
24	45,2	20,1	43,2	59,0