

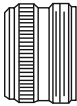
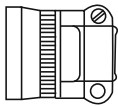
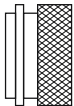

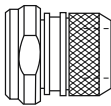
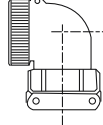
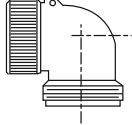
Part number creation plug

Follow these steps to design your connector part number.

STEP 1 Select shell style (plug)

Shell Style	Plug	Shell Style	Plug	Shell Style	Plug
Plug straight	Solder KPT06 KPTC6 Crimp KPSE06	Plug straight shielded	Solder KPT6-DZ KPTC6-DZ Crimp KPSE6-DZ	Plug 90°	Solder KPT08 KPTC8 Crimp KPSE08
					

STEP 2 Choose backshell

Class A General duty with thread	Class F Grommet seal with strain relief	Class E add mod. code DN Environmental, grommet seal, heat shrink boot adapter	Class PG; ME KPTC only Environmental	Class E add Mod. code DZ Environmental, grommet seal, shielded heat shrink boot adapter	Class F, 90° Grommet seal with thread and cable clamp	Class A, 90° General duty with thread Class E, 90° Grommet seal with thread
						

STEP 3 Choose layout

see page 12–14 for layouts

STEP 4 Choose gender

P=pin S=socket

STEP 5 Choose rotation

see page 15 for rotation (omit for normal position)

STEP 6 Choose modification*

see page 11 for modifications (omit if no modification is required)

* If a modification is used the initial ,0' in the shell style description is omitted e.g. KPT01 is changed to KPT1. KPTC series does never use the initial ,0' e.g. KPTC6

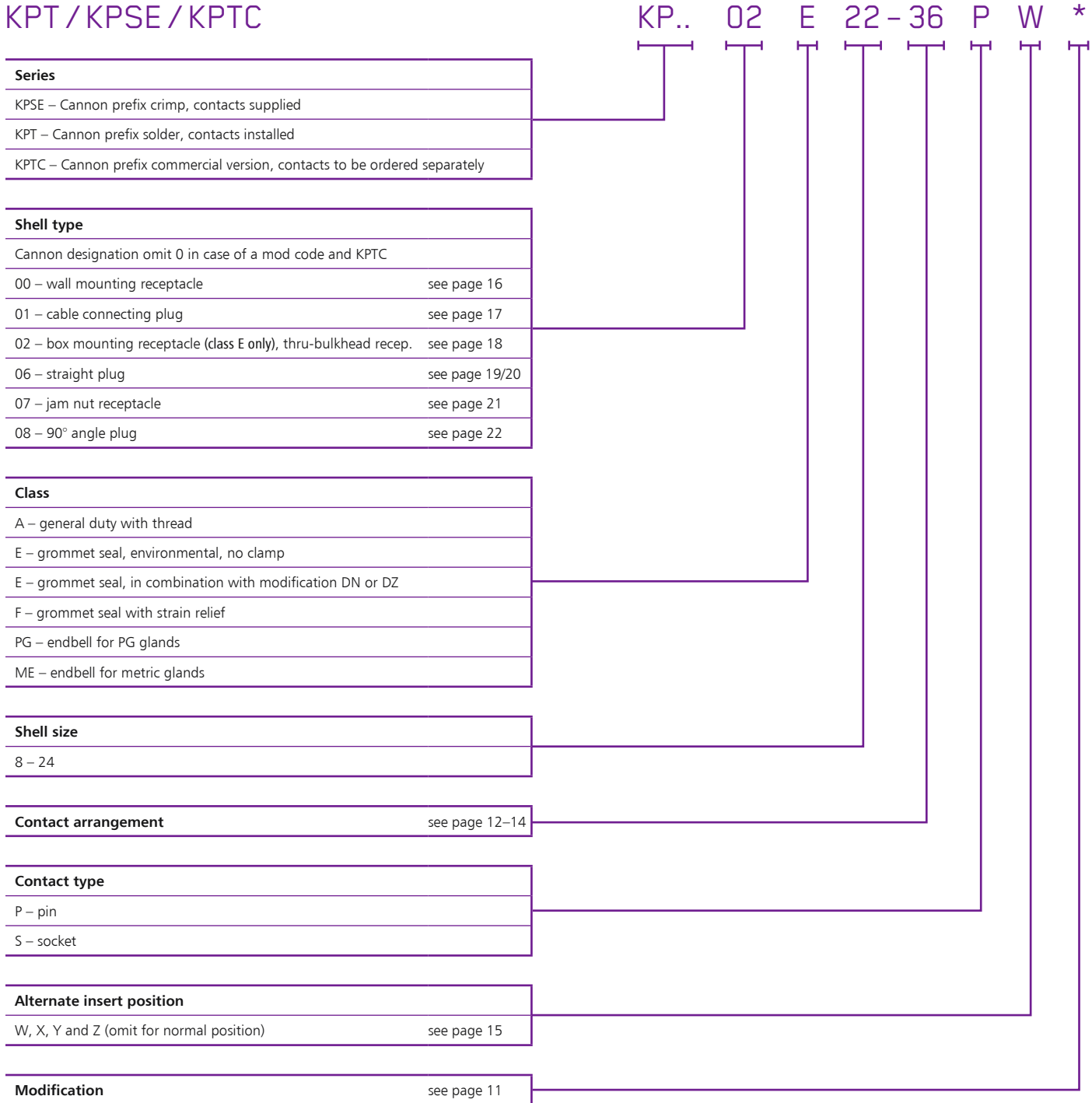
Design your part number as per above steps

KPSE/KPT Examples	STEP 1 Shell style	STEP 2 Class/Backshell	STEP 3 Contact arrangement	STEP 4 Contact gender	STEP 5 Insulation rotation	STEP 6 Mod code (max. 3 codes)
Solder Industrial	KPT6	E	20–41	P		– DZ
Crimp Industrial	KPSE6	E	14–12	S	– W	– F42 – A240 – F0

KPTC Examples	STEP 1 Shell style	STEP 2 Class/Backshell	STEP 3 Contact arrangement	STEP 4 Contact gender	STEP 6 Plating	STEP 5 Insulation rotation	STEP 6 Mod code (max. 3 codes)
Solder Industrial	KPTC6	E	20–41	P	C		– MA
Crimp Industrial	KPTC6	E	14–12	S	– D	W	– PG13,5 – MB

Ordering reference

KPT / KPSE / KPTC



* If a modification is used the initial ,0' in the shell style description is omitted e.g. KPT01 is changed to KPT1. KPTC series does never use the initial ,0' e.g. KPTC6

CONTACT ARRANGEMENTS

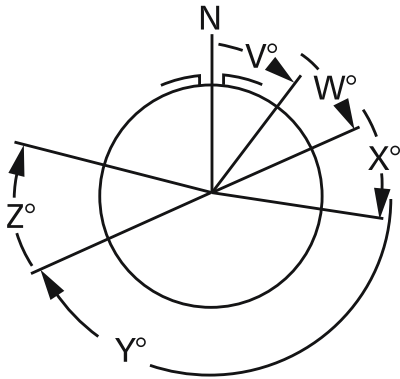
	No. of contacts	Contact arrangements Contact size AWG	Service rating	Insulator position			
				W	X	Y	Z
	2	8-2 ▲▲ 20	1	58	122	-	-
	3	8-3 ▲▲ 20	1	60	210	-	-
	3	8-3A ▲●◇ 20	1	60	-	-	-
	3	8-33 ▲◇△ 20	1	90	-	-	-
	4	8-4 ▲▲ 20	1	45	-	-	-
	6	10-6 ▲●△◇ 20	1	90	-	-	-
	7	10-7 ▲ 20	1	90	-	-	-
	6	10-98 ▲ 20	1	90	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 △ authorized per MIL-C-26482 ● authorized per VG95328

ALTERNATE INSERT POSITION

The diagram indicates alternate insert positions.

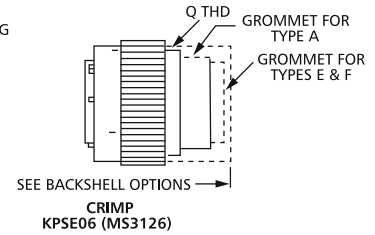
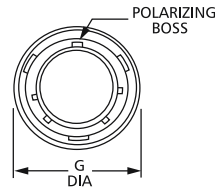
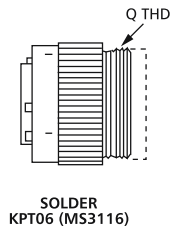
The six positions N, V, W, Y, Z differ in degree of rotation for various sizes and arrangements. For the exact degree of rotation, for the list of contact arrangements and for alternate positions available, refer to the table at the right.



Shell size	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	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

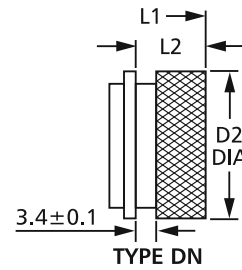
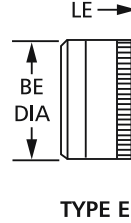
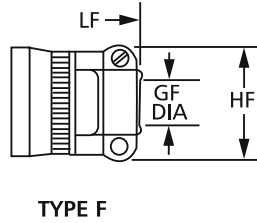
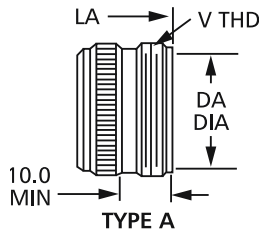
* This contact arrangement features five contacts size 12. Four standard contacts and one is a first-to-mate contact.

STRAIGHT PLUGS KPT06/KPSE06/KPTC6



Shell size	Ø G	Q THD
	max.	Thread Type 2A
8	19,8	7/16-28UNEF
10	23,6	9/16-24UNEF
12	26,5	11/16-24UNEF
14	30,1	13/16-20UNEF
16	33,2	15/16-20UNEF
18	35,4	1-1/16-18UNEF
20	39,0	1-3/16-18UNEF
22	42,1	1-5/16-18UNEF
24	45,2	1-7/16-18UNEF

Backshell options



Shell size	Type A			Type F			Type E	
	Ø D _A min.	L _A max.	V _{THD} Thread Type 2A	Ø G _F min.	L _F max.	H _F max.	Ø B _E max.	L _E max.
8	8,5	42,0	1/2-28UNEF	2,9	56,0	19,3	14,2	32,5
10	11,8	42,0	5/8-24UNEF	4,5	56,0	20,8	17,2	32,5
12	15,0	42,0	3/4-20UNEF	7,7	56,0	24,4	20,4	32,5
14	17,9	42,0	7/8-20UNEF	9,3	56,0	27,2	23,4	32,5
16	21,1	42,0	1-20UNEF	12,4	59,0	28,7	26,6	32,5
18	24,1	42,0	1-3/16-18UNEF	15,6	59,0	35,3	29,6	32,5
20	26,5	45,0	1-3/16-18UNEF	15,6	59,0	35,3	32,8	34,5
22	30,4	45,0	1-7/16-18UNEF	18,8	59,0	39,9	36,0	34,5
24	32,8	45,0	1-7/16-18UNEF	20,1	59,0	43,2	39,2	34,5

Mod. DN			
Shell size	Ø D ₂	L ₁	L ₂
	-0,5	max.	±0,5
8	15,6	35,0	12,2
10	18,4	35,0	12,2
12	23,7	35,0	12,2
14	24,5	35,0	12,2
16	29,8	37,0	14,5
18	32,0	37,0	14,5
20	36,1	42,0	15,8
22	38,5	42,0	15,8
24	41,6	42,0	14,9