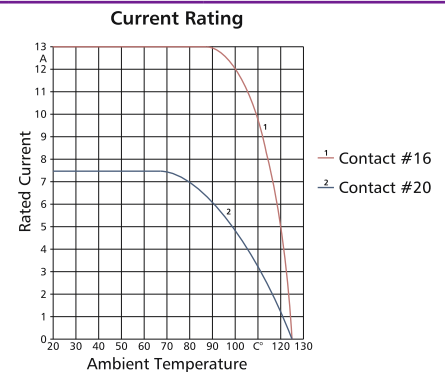


# Product overview

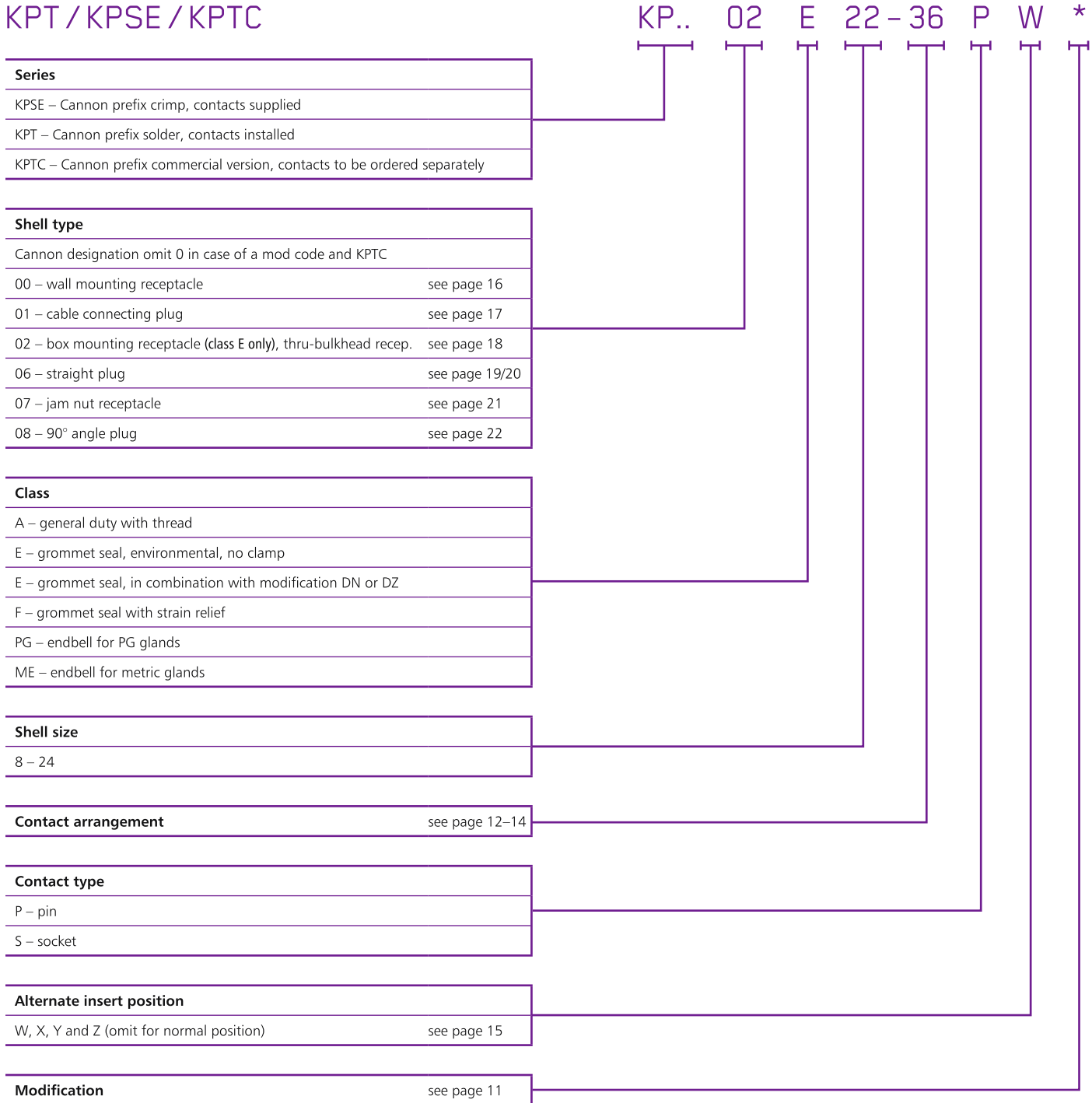
	KPT	KPSE	KPTC			
<b>Material and Finishes</b>						
Shell	Aluminum alloy Various RoHS compliant plating options are available like Zinc cobalt, Zinc Nickel and Nickel plus none compliant Cadmium	Aluminum alloy	Aluminum alloy			
Insulator	Polychloroprene	Polychloroprene	Polychloroprene			
Grommet and seal	Polychloroprene	Polychloroprene	Polychloroprene			
Contacts	Copper alloy, gold and tin plated	Copper alloy, gold and tin plated	Copper alloy, hard gold and tin plated			
<b>Mechanical Data</b>						
Shell styles	00 – Wall mounting receptacle	07 – Jam nut receptacle				
	01 – Cable connecting plug	08 – Plug with 90° termination assemblies				
	02 – Box mounting receptacle	B – Thru-bulkhead receptacle (KPT only)				
	06 – Straight plug					
Shell size		8 through 24				
Polarization/Coupling		Five keyways/3-point bayonet				
Service classes		A – General duty				
		E – Grommet seal				
		F – Grommet seal with strain relief				
		PG – PG gland adapters ME – metric gland adapters				
Environmental sealing	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 48 h, test temperature 25 ± 3°C, connector shall be free of moisture					
Operating temperature	-55/ + 125°C					
Durability	500 mating cycles					
Vibration	200 m/s <sup>2</sup> at 10 to 2000 Hz					
<b>Electrical Data</b>						
Number of contacts	2 through 61	3 through 61	2 through 61			
Wire size AWG	16 through 24	12 through 24	0,4 – 2,0 mm <sup>2</sup>			
Contact termination	Solder	Crimp	Crimp, solder			
<b>KPT/KPSE/KPTC</b>						
<b>Contact rating</b>	Size	Rated current A	Test current A	Millivolt drop mV		
	20	7,5	7,5	Less than 55		
	16	13,0	13,0	Less than 50		
<b>Insulation resistance</b>	~ 5000 MΩ					
<b>Exceptions</b>	Test voltage	Service class		Vrms	VDC	
	Service rating between the central contact and the housing of the coaxial contact	Seal Level	1		1500	2100
			2		2300	3200
	21336 m/70 000 ft.	1			375	535
		2			550	770
Operating voltage (with scoop proof connectors operating voltages acc. to MIL-C-26482 and VG95328 are permitted)						
<b>Operating voltage</b>	Service class	VG95328	MIL-C-26482			
	1	140 VDC/100 VAC		850 VDC/600 VAC		
	2	165 VDC/115 VAC		1400 VDC/1000 VAC		

**Operating voltage** When the connectors in this catalogue are used for voltages greater than 50 Volts and have touchable conductive shell parts they must be used in accordance with the safety regulations DIN VDE Part 140; IEC 60364-4-41. This regulation basically dictates that the power source should be turned off before any mating and unmating of the connector. This regulation does not provide protection against electrical shock when mating and unmating the connectors in the live condition.



# Ordering reference

## KPT / KPSE / KPTC



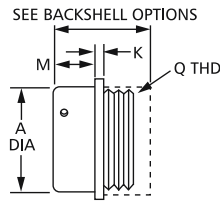
\* If a modification is used the initial ,0' in the shell style description is omitted e.g. KPT01 is changed to KPT1. KPTC series does never use the initial ,0' e.g. KPTC6

## CONTACT ARRANGEMENTS

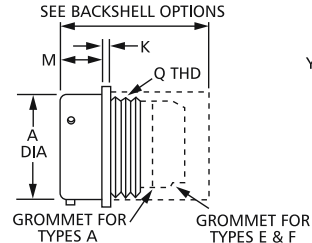
	No. of contacts	Contact arrangements Contact size AWG	Service rating	Insulator position			
				W	X	Y	Z
	2	8-2 ▲△ 20	1	58	122	-	-
	3	8-3 ▲△ 20	1	60	210	-	-
	3	8-3A ▲●◇ 20	1	60	-	-	-
	3	8-33 ▲◇△ 20	1	90	-	-	-
	4	8-4 ▲△ 20	1	45	-	-	-
	6	10-6 ▲●△◇ 20	1	90	-	-	-
	7	10-7 ▲ 20	1	90	-	-	-
	6	10-98 ▲ 20	1	90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

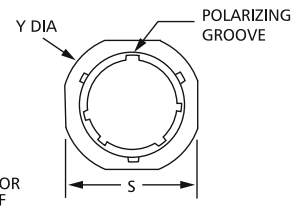
## CABLE CONNECTING PLUGS KPT01/KPSE01/KPTC1



**SOLDER**  
KPT01 (MS3111)



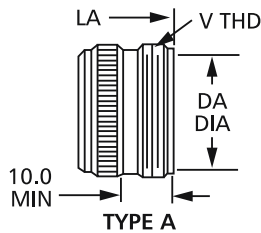
**CRIMP**  
KPSE01 (MS3121)



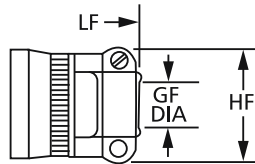
**RECEPTACLE**  
**ASSEMBLY**

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

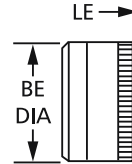
### Backshell options



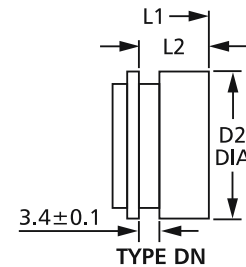
**TYPE A**



**TYPE F**



**TYPE E**



**TYPE DN**

Shell size	Type A			Type F			Type E	
	Ø D <sub>A</sub> min.	L <sub>A</sub> max.	V <sub>THD</sub> Thread Type 2A	Ø G <sub>F</sub> min.	H <sub>F</sub> max.	L <sub>F</sub> max.	Ø B <sub>E</sub> max.	L <sub>E</sub> max.
8	8,5	38,0	1/2-28UNEF	2,9	19,3	56,0	14,2	32,5
10	11,8	38,0	5/8-24UNEF	4,5	20,8	56,0	17,2	32,5
12	15,0	38,0	3/4-20UNEF	7,7	24,4	56,0	20,4	32,5
14	17,9	38,0	7/8-20UNEF	9,3	27,2	56,0	23,4	32,5
16	21,1	38,0	1-20UNEF	12,4	28,7	56,0	26,6	32,5
18	24,1	38,0	1-3/16-18UNEF	15,6	35,3	56,0	29,6	32,5
20	26,5	43,1	1-3/16-18UNEF	15,6	35,3	61,0	32,8	34,5
22	30,4	43,1	1-7/16-18UNEF	18,8	39,9	61,0	36,0	34,5
24	32,8	43,1	1-7/16-18UNEF	20,1	43,2	61,0	39,2	34,5

### Mod. DN

Shell size	Ø D <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>
	-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