

Locating Pins

With Air Vent

Locating Pins – With Air Vent

Type		Material	Hardness
Threaded	Tapped		
LPN	LPT	52100 Bearing Steel	Treated Hardness: 45–50 HRC min.
SLPN	SLPT	304 Stainless Steel or Equivalent	—
CLPN	CLPT	440C or 420 Stainless Steel	Treated Hardness: 50–55 HRC min.

Threaded

Tapped

Part Number		L	L ₁	d _{g6}	M (Coarse)	*Tightening Torque N-cm	ℓ ₁		ℓ ₂	r				
Type	D Dimension Tolerance g6						Threaded	Tapped						
Threaded Tapped LPN LPT SLPN SLPT CLPN CLPT	5	-0.004 -0.012	10 12 15 20 25 30	12	3	-0.002 -0.008	M3	98	7	6	1	1		
	6	-0.005 -0.014	10 12 15 20 25 30	15	4	-0.004 -0.012	M4	225	10	8				
	8										20	6	M5	461
	10													
	12	-0.006 -0.017	15 20 25 30	20	6	M6	784	15	10	2	2			

Ⓛ=10, 12 are applicable to SLPN and CLPN only. ℓ₁=6 only when D = 6, L = 10. The pilot hole for tapping may go through. ℓ=15 not applicable to tapped part types. *The tightening torque (ref. value) for hardened products is strength class 8.8. (See technical data on MISUMI 2019 catalog P.4015). Not applicable when using locking agents or spring washers.

Part Number Example

Part Number	-	L
LPN5	-	15
LPT6	-	20

Application Example

Locating Pins

Pilot Pins

Locating Pins – Pilot Pins

Standard	Tapped With Flathead Slot	B Configurable		Materials	Hardness	
		Standard	Tapped			
			Without Flathead Slot			Flathead Slot
HPST	HPSTM	HPSF	HPSFS	HPSFM	01 Tool Steel or Equivalent	Treated Hardness: 60–63 HRC min.
SHPST	SHPSTM	SHPSF	SHPSFS	SHPSFM	304 Stainless Steel or Equivalent	—
CHPST	CHPSTM	CHPSF	CHPSFS	CHPSFM	440C or 420 Stainless Steel	Treated Hardness: 50–55 HRC min.

Standard

Tapped, Flathead Slot

Tapped, without Flathead Slot

Ⓛ Tips with D dimensions of ø5 or higher are not polished. (*Part)

B Fixed, Standard

Type	Part Number	D	D Tolerance	L Selection	P 0.01 mm Increment	B	E	ℓ	M (Coarse)
Standard	1	+0.012 +0.012		12	1.50–3.00	1	3	3	—
	2			12	2.50–4.00				
	3			12 15	4.00–6.00				
	4			12 15	5.00–7.00				
	5			12 15	6.00–8.00				
	6			12 15	7.00–9.00				
	8			15 18	9.00–13.00				
	10			15 18	11.00–15.00				

B Fixed, Tapped

Type	Part Number	D	D Tolerance	L Selection	P 0.01 mm Increment	B	E	ℓ	M (Coarse)	*Tightening Torque N-cm
Tapped Flathead Slot	5	+0.012 +0.007		12 15	6.00–8.00	2	5	3	M3	98
	6			12 15	7.00–9.00					
	8			15 18	9.00–13.00					
	10			15 18	11.00–15.00					

B Configurable, Standard

Type	Part Number	D	D Tolerance	L Selection	P 0.01 mm Increment	B 0.01 mm Increment	E	ℓ
HPSF SHPSF CHPSF	1	+0.012 +0.007		3 4 5 6 8 10 12	1.50–3.00	1.00–5.00	3	1
	2			4 5 6 8 10 12	2.50–4.00	1.00–10.00		
	3			5 6 8 10 12 15	4.00–6.00	1.00–10.00		
	4			5 6 8 10 12 15	5.00–7.00	1.00–10.00		
	5			5 6 8 10 12 15	6.00–8.00	1.00–10.00		
	6			6 8 10 12 15	7.00–10.00	1.00–12.00		
	8			8 10 12 15	9.00–13.00	1.00–15.00		
	10			10 12 15 18	11.00–15.00	1.00–20.00		

B Configurable, Tapped

Type	Part Number	D	D Tolerance g6	L Selection	P 0.01 mm Increment	B 0.01 mm Increment	E	M (Coarse)
Without Flathead Slot HPSFS SHPSFS CHPSFS	5	-0.004 -0.012		6 8 10 12 15	6.00–8.00	1.00–10.00	5	M3
	6			6 8 10 12 15	7.00–10.00	1.00–12.00		
	8			8 10 12 15 18	9.00–13.00	1.00–15.00		
	10			10 12 15 18	11.00–15.00	1.00–20.00		

*The tightening torque (ref. value) for hardened products is strength class 8.8. (See technical data on MISUMI 2019 catalog P.4015). Not applicable when using locking agents or spring washers.

Part Number Example

Part Number	-	L	-	P	-	B
HPST5	-	15	-	P7.20	-	
HPSF4	-	10	-	P5.05	-	B1.20
HPSTM5	-	15	-	P7.20	-	
HPSFS6	-	10	-	P8.05	-	B1.20

Part Number Alterations

Part Number	-	L	-	P	-	(BC)
HPST5	-	15	-	P7.20	-	BC3.5

Alteration	Code	Spec.
B Dimension	BC	BC=0.1 mm Increment 1 ≤ BC ≤ BCmax Ordering Code: BC3.5 Ⓛ Applicable to B Fixed Type only.
		D BCmax
		1, 2 3.0
		3 4.0
		4, 5 5.0
		6 6.0
		8, 10 7.0