

POSITIONING STRAIGHT PIN SETS

—BUSHING PL INSTALLATION TYPE—

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—PIN • BUSHING PL INSTALLATION TYPE—

ⓘ Non JIS material definition is listed on P.1351 - 1352

Bushing PL installation type

TPNFC (Set)
TPNFCP (Pin only)
TPNFCB (Bushing only)

② Bushing
① Pin

When positioning is begun | Mold closed

Details of the tip: 10°

SKD11 equivalent
58~62HRC

Installation bolt size	M	ℓ	N (Tap)	V	ℓ ₁	R ₁	R ₂	H	F	L	S (Effective holding amount)	Part Number		U/Price 1~9	
												Type	D	E	TPNFC (①+②/Set)
M4	4	10	M 5	7	1.0	0.5	0.8	5	6	14.5	4.5	13	7	Quotation	
			M 6	10											
M5	5		M 8	13											
M6	6	12	M 10	16											
M8	8	16	M10	20	2.0	1.0	1.5	11	17	34	14.0	25	12		
												30	18		

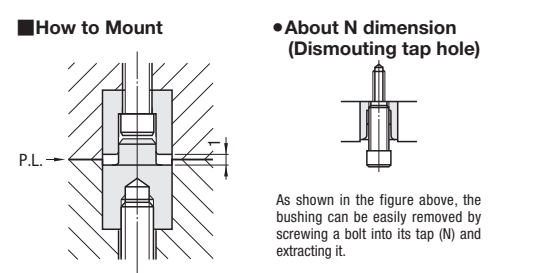
Order **Part Number** — E — **TPNFC20 — 10** Days to Ship **Quotation** Price **Quotation**

Alterations **Part Number** — E — (PLC...etc.) **TPNFC16 — 7 — BLK** **Quotation**

Alterations	Code	Spec.	1Code
	PLC	Shortens the pin's L dimension. PLC=0.1mm increments $L-5 \leq \text{PLC} < L$ • The tap depth becomes shorter by (L-PLC) • Available also for a set. To change the bushing length as well, combine with BLC.	Quotation
	BLK	Changes the bushing's L dimension tolerance. $L+0.2 \rightarrow L+0.02$ $L+0.1 \rightarrow L+0$ • Available also for a set. To change the pin length (L) tolerance as well, combine with alteration PLK.	
	PLK	Changes the pin's L dimension tolerance. $L+0.2 \rightarrow L+0.02$ $L+0.1 \rightarrow L+0$ • Available also for a set. To change the bushing length (L) tolerance as well, combine with alteration BLK.	

- Characteristics**
- Suitable for positioning in precision molds such as connector and electronic device.
 - It is capable of preventing wear and damage in core pins, since it can be positioned before core pins are inlayed.
 - Bushing PL installation type: Makes the maintenance easier because it can be installed and removed from PL side.

- When using**
- Contacting the pin and bushing when mold is closed may cause damage. Please leave a clearance of about 1mm on PL.
 - Use precision leader pins since clearance is fairly small.



PL installation type

TPNFCX (Set)
TPNFCXP (Pin only)
TPNFCXB (Bushing only)

② Bushing
① Pin

When positioning is begun | Mold closed

Details of the tip: 10°

SKD11 equivalent
58~62HRC

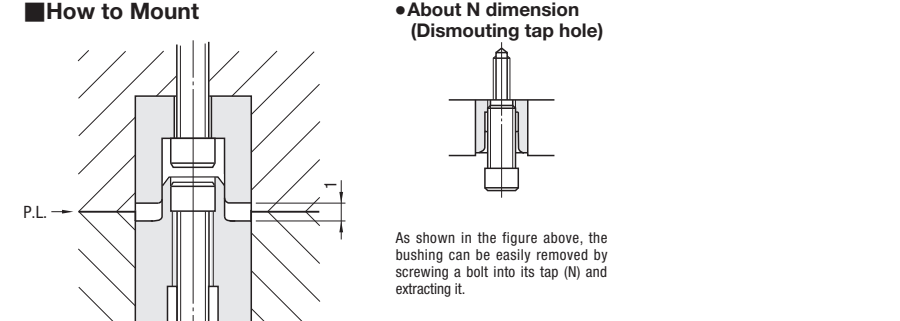
Installation bolt size	d	E ₁	N (Tap)	V	ℓ ₁	R ₁	R ₂	H	F	L	Escape hole on pin bottom (n)	Escape hole diameter on pin bottom (J)	Part Number		U/Price 1~9	
													Type	D	E	TPNFCX (①+②/Set)
M3	6.5	3.3	M4	10	1.0	0.5	0.8	4	6	14.5	10.2	4.4	13	7	Quotation	
M5	9.5	5.4	M6	13												
M6	11	6.5	M8	20												
					2.0	1.0	1.5	8	17	34	29.5	8.6	20	10		
													25	12		
													30	18		

Order **Part Number** — E — **TPNFCX 20 — 10** Days to Ship **Quotation** Price **Quotation**

Alterations **Part Number** — E — (PLC...etc.) **TPNFCX 20 — 10** **Quotation**

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Components
for
Positioning