


Plastic Coupling

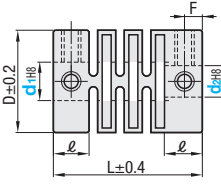
Set Screw, Short

■ **Features:** Economical couplings for low torque applications. Suitable for encoders and potentiometers where little torque is required.

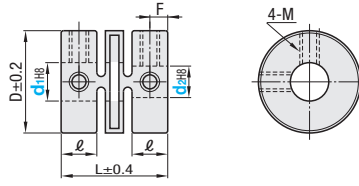


RoHS 10

MCJN



MCJSN (Short)



⚠ Operating Temperature: -20°C ~ 80°C
 ⚠ The lateral, angular, and axial misalignment values shown are for each occurring individually. When multiple misalignments are occurring simultaneously, the allowable maximum value of each will be reduced to 1/2.
 ⚠ For the selection criteria and alignment procedures, see **P1061**.

Type	Material	Accessory
MCJN	Glass Fiber Reinforced PBT Resin	Set Screw
MCJSN	PBT Resin	

Part Number		d1	d2	D	L	ℓ	F	Set Screw		Unit Price			
Type	No.							M x Length	Tightening Torque (N·m)				
MCJN	9	1.5	1.5	9	11.4	3.2	1.6	M2x4	0.08				
		2	2										
	10	1.5	2.5	10	11.8	20	5.1	2.6	M3x4		0.15		
		3	3										
	14	4	2.5	3	3.2	4	13.5	21	5.3		M3x5	0.2	
		5	3	3.2	4	5							
	15	5		3	3.2	4	5	15	20.5		2.7	M4x6	0.25
		6	3	3.2	4	5	6						
	20	8		4	5	6	8	20	24		6.8	3.5	M4x6
10													
22	10						22	25.6	7.1	3.6	M4x8	0.5	
	12												
28	12						28	34.4	7.5	3.9	M4x8	0.8	

Part Number		d1	d2	D	L	ℓ	F	Set Screw		Unit Price	
Type	No.							M x Length	Tightening Torque (N·m)		
MCJSN	8	2	2	8	9	3.2	1.6	M2x3	0.05		
		2.5	3								
	12	3.2	3.2	12	14.5	5.3	2.6	M3x4	0.18		
		4	4								
	14	5		4	5	14	15	5.2	M3x4		0.2
		6	2.4	3.2	4						
15	6		4	5	6	15	15.5	5.5	2.8	M3x5	0.25
	8		4	5	6						
18	8		4	5	6	8	18	17.8	2.6	M3x5	0.25

Part Number	Allowable Torque (N·m)	Angular Misalignment (°)	Lateral Misalignment (mm)	Static Torsional Spring Constant (N·m/rad)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m ²)	Allowable Axial Misalignment (mm)	Mass (g)		
MCJN	9	0.05	2.5	0.2	1.5	4000	1x10 ⁻⁶	±0.2		
	10	0.06			2	4000	1.4x10 ⁻⁸		1.1	
	12	0.08			4	4000	4.5x10 ⁻⁸		2.5	
	14	0.1			10	5000	0.8x10 ⁻⁷		3.4	
	15	0.12			12	5000	1x10 ⁻⁷		4	
	16	0.15			16	6000	1.3x10 ⁻⁷		4.5	
	20	0.25			28	8000	4x10 ⁻⁷		7.5	
	22	0.35			32	10000	7x10 ⁻⁷		10	
	28	0.8			40	12000	2.1x10 ⁻⁶		19	
MCJSN	8	0.05	2	0.1	1.8	4000	0.5x10 ⁻⁸	±0.15		
	12	0.1			2	4000	0.4x10 ⁻⁷	2.3		
	14	0.15			8	5000	0.6x10 ⁻⁷	±0.2	2.7	
	15	0.15			9	6000	0.8x10 ⁻⁷	3		
	18	0.2			0.15	16	6000	2.5x10 ⁻⁷	±0.3	4

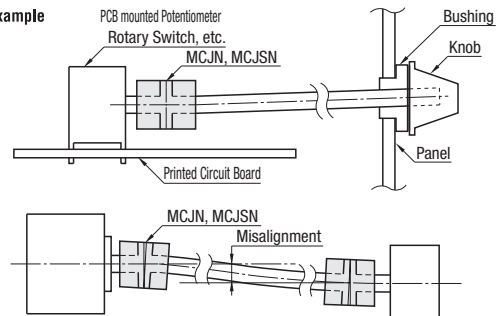
 **Ordering Example** Part Number - Shaft Bore Dia. dr - Shaft Bore Dia. dz
MCJN20 - 8 - 6

ⓘ Precautions for Use

- Avoid rough handling. The couplings are highly reliable in light loading applications. They are suitable for potentiometers and encoders.
- Do not apply excessive bending and torsional forces during installation. Be sure to maintain **tightening torque for set screws**. (Resin material breaks if the tightening torque exceeds the allowable range)
- The couplings have been proven with heat-run tests that show 10 years of service life and 10⁸ revolutions if used at under the allowable torque and misalignment values.



Example



(Note)1. For small misalignment, use one MCJ Series for connection.
 2. For big misalignment, use two MCJ Series for connection.