Slit Couplings

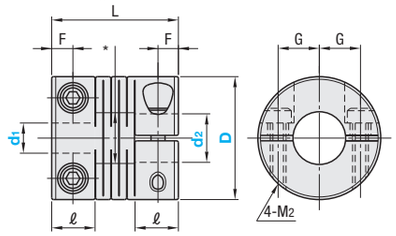
Extra Super Duralumin - Clamping, Set Screw, Short

For Servo Motors

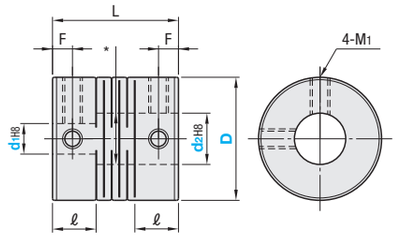
■**Features:** Due to the use of extra super Duralumin, it has high torsional rigidity and is applicable with servo motors.
For more misalignment tolerances and higher torque capacities, see Disc Type P.1075.

■**For Servo Motors**

CPCX (Clamping)



CPSX (Set Screw)



*d1, d2 Identical Diameter = d1+0.5
d1, d2 Different Diameters = Large Shaft Diameter + 0.5
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 P.1061.

Type	M Material	S Surface Treatment	A Accessory
CPCX	Extra Super Duralumin	Clear Anodize	Hex Socket Head Cap Screw
CPSX			Set Screw

Part Number Type	D	d1	d2	L	ℓ	F	M1	M2	G	Unit Price CPCX	Unit Price CPSX
Clamping CPCX / Set Screw CPSX	16	5	5 6	17.4	6	3	M3	M2	4.74		
		6	6								
	19	5	5 6 7 8	20	6.8	3.4	M3	M2.5	5.6		
		6	6 6.35 7 8								
		6.35	6.35 8								
		8	8 *10								
		*10	*10								
	24	6	6 8 10	25	8.5	4.25	M4	M3	8		
		6.35	6.35 8 10								
		7	8								
		8	8 9.525 10								
		9.525	10								
		10	10 *11 *12								
		*11	*12								
		*12	*12								
	29	8	8 10 11 12	30	10.2	5.1	M4	M3	9		
		10	10 11 12 *14								
		11	12 *14								
		12	12 *14								
	34	10	14	35	12	6	M5	M3	11		
		11	14								
		12	12 14 16								
		14	14 15 16								
		15	15 16								
		16	16								

CPCX is not available for * marked sizes.

Part Number Type	D	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·m²)	Allowable Axial Misalignment (mm)	Screw Tightening Torque (N·m)	Compensation Factor coefficient	Mass (g)
CPCX	16	0.5	0.5	0.05	200	39000	2.5×10^{-7}	±0.1	0.5	1	7
	19	1			270	33000	5.8×10^{-7}		1		12
	24	1.5			790	26000	1.8×10^{-6}		1.5		23
	29	2			1400	21000	4.7×10^{-6}				41
	34	3			2200	18000	1.1×10^{-5}				62
CPSX	16	0.5	0.5	0.05	200	39000	2.8×10^{-7}	±0.1	0.7		7
	19	1			270	33000	6.2×10^{-7}				10
	24	1.5			790	26000	2.0×10^{-6}		1.7		22
	29	2			1400	21000	5.2×10^{-6}				40
	34	3			2200	18000	1.1×10^{-5}		4		64

Ordering Example: Part Number - Shaft Bore Dia. d1 - Shaft Bore Dia. d2
CPSX19 - 5 - 6

Slit Couplings

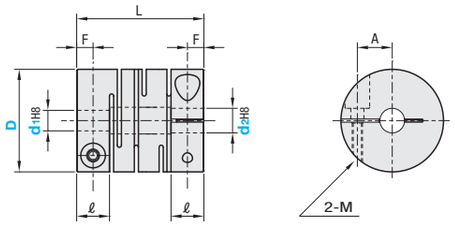
Extra Super Duralumin - Clamping Long

For Servo Motors

■**Features:** Long slit coupling for Servo Motors.

■**For Servo Motors**

CPLCX (Clamping)



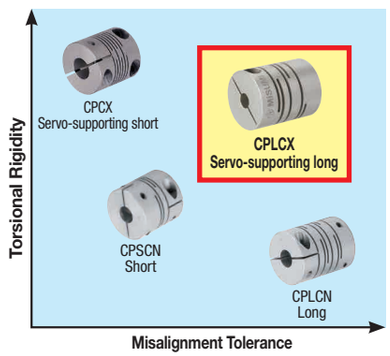
The lateral, angular, and axial misalignment values shown are for each occurring individually. When multiple misalignments are occurring simultaneously, the allowable maximum value of each will be reduced to 1/2.
Tolerances for d1 and d2 are values before slit machining.
For the selection criteria and alignment procedures, see P.1061.

M Material	S Surface Treatment	A Accessory
Extra Super Duralumin	Clear Anodize	Hex Socket Head Cap Screw

Part Number Type	D	d1	d2	L	ℓ	M (Coarse)	A	F	Unit Price
Clamping CPLCX	16	5	5 6	23	6.5	M2.5	5	3.25	
		6	6						
	20	5	6 6.35 8	26	7.5	M2.5	6.5	3.75	
		6	6 6.35 8						
		6.35	8						
		8	8						
	25	5	6	31	8.5	M3	9	4.2	
		6	6 8 10						
		6.35	8 10						
		8	8 10						
		10	10						
	32	8	8 10 12	41	12	M4	11	6	
		10	10 12 14						
		12	12 14						

Part Number Type	D	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·m²)	Allowable Axial Misalignment (mm)	Screw Tightening Torque (N·m)	Mass (g)
CPLC X	16	0.5	1	0.05	96	39000	3.7×10^{-7}	±0.3	1.0	10.1
	20	1		0.10	204	31000	10.0×10^{-7}	±0.3	1.0	17.6
	25	2			456	25000	2.9×10^{-6}	±0.4	1.5	30.8
	32	4		0.15	600	19000	10.7×10^{-6}	±0.4	2.5	70.4

◆ **Features of CPLCX**
Provides torsional rigidity while allowing high misalignment



Suitable for Servo Motors with high responsiveness.
Reduces centering workload as the allowable misalignment is large.

Ordering Example: Part Number - Shaft Bore Dia. d1 - Shaft Bore Dia. d2
CPLCX20 - 5 - 6