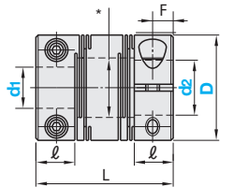
Slit Couplings
Clamping, Short/Long

Points of comparison between similar products | Max. Rotational Speed: 19,000~52,000rpm

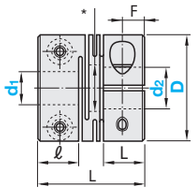
Features: Because backlash is 0, it is suitable for applications where rotation accuracy is required.

Slit Clamping

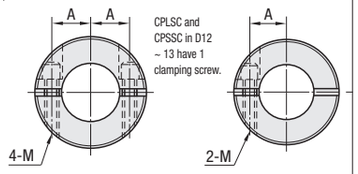
CPLCN (Aluminum - Long)
CPLSC (Stainless Steel - Long)



CPSCN (Aluminum - Short)
CPSSC (Stainless Steel - Short)



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



Type	M Material	S Surface Treatment	A Accessory
CPLCN, CPSCN	Aluminum Alloy	Clear Anodize	Hex Socket Head Cap Screw
CPLSC, CPSSC	Stainless Steel	-	

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.
Tolerances for d1 and d2 are values before slit machining.

Part Number Type	D	d1	d2	L CPLCN CPLSC	L CPSCN CPSSC	ℓ CPLCN CPLSC	ℓ CPSCN CPSSC	M (Coarse)	A	F CPLCN CPLSC	F CPSCN CPSSC	Slip Torque (N·m) CPLSC	Slip Torque (N·m) CPSSC	Unit Price CPLCN	Unit Price CPLSC	Unit Price CPSCN	Unit Price CPSSC
CPLCN (Aluminum)	12	*4	*4 *5	18.5	14	5	5.2	M2	4	2.5	2.6	-	-				
		*5	*5														
	16	*5	*5 *6	23	18	6.5	6.8	M2.5	5	3.25	3.4	-	-				
		*6	*6														
	20	*5	*6 6.35 *8	26	20	7.5	7.65		6.5	3.75	3.8	-	0.9				
		*6	*6 6.35 7 *8										-				
		6.35	8														
		*8	*8														
CPLSC (Stainless Steel)	25	*5	*6	31	25	8.5	9.6	M3	9	4.25	4.8	0.7	1.2				
		*6	*6 6.35 *8 *10									0.7	1.4				
		6.35	8 10									0.9	-				
CPSCN (Aluminum)		*8	*8 9.525 *10									1.7	1.9				
		9.525	10									-	-				
		*10	*10														
CPSSC (Stainless Steel)	32	*8	*8 9.525 *10 12	41	32	12	12.6	M4	11	6	6.3	1.2	1.9				
		9.525	10 12									2.1	2.4				
		*10	*10 11 *12 14									2.7	3.4				
		*12	*12 *14									2.9	-				
	40	8	8 10	56	-	17	-	M5	14	8.5	-	-	-			-	-
		10	10														
		12	12 14														
		14	14 16														
		15	15														
		16	16														

CPSCN and CPSSC are available in * marked sizes only. When slip torque is less than the allowable torque, use within slip torque.

Part Number Type	D	Allowable Torque (N·m)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m²)	Static Torsional Spring Constant (N·m/rad)	Lateral Misalignment (mm)	Angular Misalignment (°)	Allowable Axial Misalignment (mm)	Screw Tightening Torque (N·m)	Mass (g)
CPLCN (Aluminum)	12	0.4	52000	$7.8x10^{-8}$	45	0.10	2	±0.3	0.5	3.6
	16	0.5	39000	$3.4x10^{-7}$	80			±0.4	1	9.2
	20	1	31000	$9.1x10^{-7}$	170					16
	25	2	25000	$2.6x10^{-6}$	380	0.15		±0.5	1.5	28
	32	4	19000	$9.7x10^{-6}$	500				2.5	64
	40	8	15000	$3.3x10^{-5}$	700	0.20			4	140

Part Number Type	D	Allowable Torque (N·m)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m²)	Static Torsional Spring Constant (N·m/rad)	Angular Misalignment (°)	Allowable Axial Misalignment (mm)	Screw Tightening Torque (N·m)	Mass (g)
CPSCN (Aluminum)	12	0.4	52000	$6.4x10^{-8}$	80	1	±0.1	0.5	3
	16	0.5	39000	$2.9x10^{-7}$	180		±0.2	1	8
	20	1	31000	$7.5x10^{-7}$	200				13
	25	2	25000	$2.3x10^{-6}$	780			1.5	25
	32	4	19000	$8.1x10^{-6}$	1100			2.5	53

CPSCN does not allow eccentricity.

Part Number Type	D	Allowable Torque (N·m)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m²)	Static Torsional Spring Constant (N·m/rad)	Lateral Misalignment (mm)	Angular Misalignment (°)	Allowable Axial Misalignment (mm)	Screw Tightening Torque (N·m)	Mass (g)
CPLSC (Stainless Steel)	12	0.3	52000	$2.2x10^{-7}$	64	0.10	2	±0.2	0.5	10
	16	0.5	39000	$9.0x10^{-7}$	85			±0.3	1	25
	20	1	31000	$2.5x10^{-6}$	250					43
	25	2	25000	$7.1x10^{-6}$	330	0.15		±0.4	1.5	78
	32	3.5	19000	$2.7x10^{-5}$	850			±0.5	2.5	170
	40	8	15000	$9.0x10^{-5}$	1000	0.20			4	370

Part Number Type	D	Allowable Torque (N·m)	Max. Rotational Speed (r/min)	Moment of Inertia (kg·m²)	Static Torsional Spring Constant (N·m/rad)	Angular Misalignment (°)	Allowable Axial Misalignment (mm)	Screw Tightening Torque (N·m)	Mass (g)
CPSSC (Stainless Steel)	12	0.3	52000	$1.8x10^{-7}$	140	1	±0.1	0.5	8.5
	16	0.5	39000	$7.8x10^{-7}$	240			1	21
	20	1	31000	$2.1x10^{-6}$	330				38
	25	2	25000	$6.3x10^{-6}$	720		±0.2	1.5	69
	32	3.5	19000	$2.2x10^{-5}$	1300			2.5	150

CPSSC does not allow eccentricity.

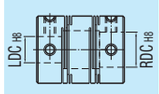
Ordering Example

Part Number	-	Shaft Bore Dia. d1	-	Shaft Bore Dia. d2
CPLCN16	-	5	-	6

Alterations

Part Number	-	Shaft Bore Dia. d1 (LDC)	-	Shaft Bore Dia. d2 (RDC)
CPLCN25	-	LDC6.5	-	RDC9

Applicable to both Slit Set Screw Type and Clamping Type.

Alterations	Code	Spec.
Shaft Bore Dia. 	LDC (Left Shaft)	0.1mm Increment Ordering Code LDC5.6 RDC10.2
	RDC (Right Shaft)	

Set Screw D	Set Screw LDC, RDC	Clamping D	Clamping LDC, RDC
8	2~ 3	12	4~ 5
12	3~ 6	16	5~ 6
16	4~ 8	20	5~ 8
20	5~10	25	5~10
25	5~12	32	8~14
32	6~16		
40	8~18		

Not applicable to Clamping Type D=40.
LDC and RDC tolerance are values before slit machining.

Slit Couplings
Clamping Long

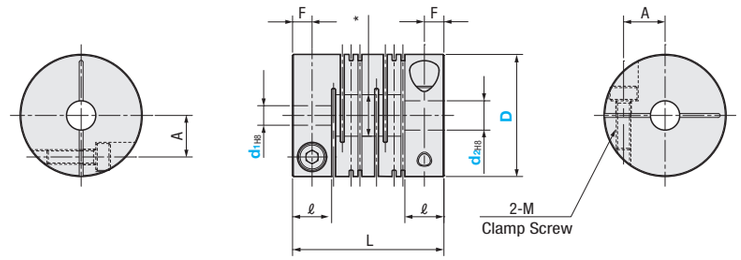
Points of comparison between similar products | Max. Rotational Speed: 10,000rpm

Similar products page P.1071

Features: Product quality and performance same as of the conventional products but at lower price. Replaceable from CPLCN.

GSACL

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



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.

TYPE	M Material	S Surface Treatment	A Accessory
GSACL	Aluminum Alloy	Clear Anodize	Clamp Screw

Part Number Type	D	d1	d2	L	ℓ	F	A	Clamp Screw M (Coarse)	Clamp Screw Tightening Torque (N·m)	Unit Price
Clamping GSACL	16	4	4 5	23	6.4	3.2	5.5	M2.5	1.0	
		5	5 8							
	20	5	6 8	26	7	3.5	6.5			
		6	6 8 10							
	25	6	10	31	8	4	8.5	M3	1.5	
		6.35	8 10							
		8	8 10 12							
	32	10	10 11 12 14	41	11	5.5	10.5	M4	3.5	
		12	12 14							

Characteristic Values

Part Number Type	D	Allowable Torque (N·m)	Max. Rotational Speed (rpm)	Moment of Inertia (kg·m²)	Static Torsional Spring Constant (N·m/rad)	Lateral Misalignment (mm)	Allowable Angular Misalignment (°)	Allowable Axial Misalignment (mm)	Mass (g)
GSACL	16	0.5	10,000	$7.0x10^{-7}$	53	0.1	2	±0.4	9
	20	1		$1.6x10^{-6}$	120				16
	25	2		$4.4x10^{-6}$	260	0.15		±0.5	28
	32	4		$1.7x10^{-5}$	550				66

Static torsional spring constant, inertia moment, and mass values are for cases of maximum shaft diameter.
For the selection criteria and alignment procedures, see P.1061, 1062.

Ordering Example

Part Number	-	Shaft Bore Dia. d1	-	Shaft Bore Dia. d2
GSACL25	-	6	-	10