Plastic Cam Followers
Press Fit

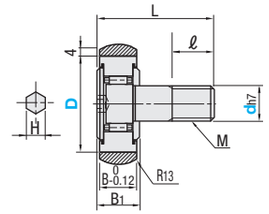
Features: Plastic is pressed onto the outer ring of the cam follower.

R

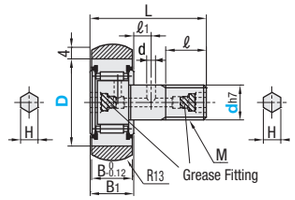
Type: (d5 ~ 10) Hex Socket on Head	Type: (d12, 16) Hex Socket on Head and Thread	Seal	Material: Plastic	Material: Cam Followers	Accessory
CFFRUDS	CFRUH	Provided	MC Nylon	EN 1.3505 Equiv.	1 Hex Nut (EN 1.1191 Equiv. Carbon Steel, Black Oxide)
CFFRUDSS	CFRUSH			EN 1.4125 Equiv.	Hex Nut 1 pc. (EN 1.4301 Equiv.)

Operating Temperature 50°C or less (Reference)

■ (d5 ~ 10) Hex Socket on Head



■ (d12, 16) Hex Socket on Head and Thread



Part Number: Type	dh7 Tolerance		D Selectable	MxPitch	B	B1	L	d	ℓ	ℓ1	H	Allowable Load (N)	Allowable Rotational Speed (rpm)	Mass (g)	Unit Price: CFFRUDS	CFFRUDSS	CFRUH	CFRUSH
(Hex Socket on Head) CFFRUDS CFFRUDSS	5	0 -0.012	13	5x0.8	9	10	23	-	7.5	-	3	88	2520	13			-	-
	6		16	6x1.0	11	12	28		9			112	2210	22			-	-
	8	0 -0.015	19	8x1.25			32		11		4	122	1960	33			-	-
	10		22	10x1.25	12	13	36		13		5	120	1760	50			-	-
			26									130	1560	66			-	-
(Hex Socket on Head and Thread) CFRUH CFRUSH	12	0 -0.018	30	12x1.5	14	15	40	3	14	6	6	156	1390	95	-	-		
			32									150	1320	113	-	-		
	16		35	16x1.5	18	19.5	52		18	8		192	1230	181	-	-		

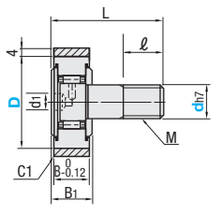
Values of allowable load are values when speed =10km/h.
kgf=Nx0.101972
For Standard Type, resin expands and may come off easily in high temperature. Avoid storing in high temperature.
For Hex Socket on Head, no grease replenishing hole is provided.
The standards of d12, 16 has been modified to those with the hex socket on the head and thread.

Flat

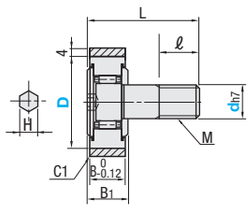
Type: (d5~10) Straight Slot	Type: (d5~10) Hex Socket on Head	Type: (d12, 16) Hex Socket on Head and Thread	Seal	Material: Plastic	Material: Cam Followers	Accessory
CFFRUC	CFFRUCS	CFFUH	Provided	MC Nylon	EN 1.3505 Equiv.	1 Hex Nut (EN 1.1191 Equiv. Carbon Steel, Black Oxide)
-	CFFRUCSS	CFFUSH			EN 1.4125 Equiv.	Hex Nut 1 pc. (EN 1.4301 Equiv.)

Operating Temperature 50°C or less (Reference)

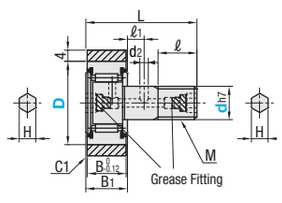
■ (d5 ~ 10) Straight Slot



■ (d5 ~ 10) Hex Socket on Head



■ (d12, 16) Hex Socket on Head and Thread



Part Number: Type	dh7 Tolerance		D Selectable	MxPitch	B	B1	L	d1	d2	ℓ	ℓ1	H	Allowable Load (N)	Allowable Rotational Speed (rpm)	Mass (g)	Unit Price: CFFRUC	CFFRUCS	CFFRUCSS	CFFUH	CFFUSH
(Straight Slot) CFFRUC (Hex Socket on Head) CFFRUCS CFFRUCSS	5	0 -0.012	13	5x0.8	9	10	23	3.1	-	7.5	-	3	88	2520	13				-	-
	6		16	6x1.0	11	12	28	4		9			112	2210	22				-	-
	8	0 -0.015	19	8x1.25			32		-	11	-	4	122	1960	33				-	-
	10		22	10x1.25	12	13	36			13		5	120	1760	50				-	-
			26										130	1560	66				-	-
(Hex Socket on Head and Thread) CFFUH CFFUSH	12	0 -0.018	30	12x1.5	14	15	40	-	3	14	6	6	156	1390	95	-	-	-		
			32										150	1320	113	-	-	-		
	16		35	16x1.5	18	19.5	52			18	8		192	1230	181	-	-	-		

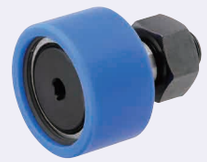
Values of allowable load are values when speed =10km/h.
kgf=Nx0.101972
For Standard Type, resin expands and may come off easily in high temperature. Avoid storing in high temperature.
For Straight Slot, grease hole is provided on the head only. For Hex Socket on Head, no grease replenishing hole is provided.
The standards of d12, 16 has been modified to those with the hex socket on the head and thread.

Ordering Example: Part Number - D
CFFRUCT12 - 32

Plastic Cam Followers
Retaining Ring

Features: After plastic is press-fit into the outer ring of cam follower, the sleeve is retained by retaining ring.

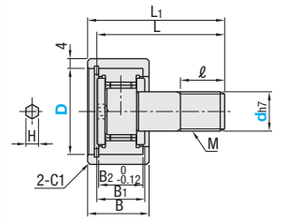
Flat



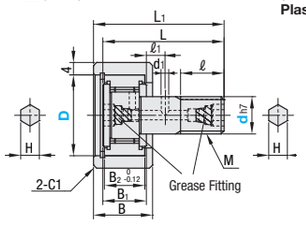
Type: (d8, 10) Hex Socket on Head	Type: (d12, 16) Hex Socket on Head and Thread	Material: Plastic	Material: Cam Followers	Seal	Accessory
CFFRUCT	CFFUHW	MC Nylon	EN 1.3505 Equiv.	Provided	1 Hex Nut (EN 1.1191 Equiv. Carbon Steel, Black Oxide)
CFFRUCTS	CFFUSHW		EN 1.4125 Equiv.		Hex Nut 1 pc. (EN 1.4301 Equiv.)

Operating Temperature 80°C or less

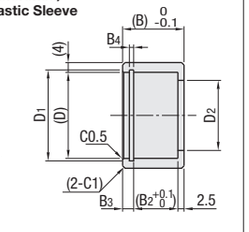
■ (d8, 10) Hex Socket on Head



■ (d12, 16) Hex Socket on Head and Thread



(Reference) Plastic Sleeve



Part Number: Type	dh7 Tolerance		D Selectable	MxPitch	ℓ	B	B1	B2	B3	B4	B4 Tolerance	D1	D1 Tolerance	D2	L	L1	d1	d2	ℓ1	H	Allowable Load (N)	Allowable Rotational Speed (rpm)	Mass (g)	Unit Price: CFFRUCT	CFFRUCTS	CFFUHW	CFFUSHW
(Hex Socket on Head) CFFRUCT CFFRUCTS	8	0 -0.015	19	8x1.25	11	17	12	11	3.5	1.1	+0.08 0	20	+0.15 0	16	32	35	4	-	-	4	518	1960	35			-	-
	10		22	10x1.25	13	18	13	12	3.5			23		18	36	39				5	594	1760	53			-	-
			26									27.2	+0.2 0								637	1560	71			-	-
(Hex Socket on Head and Thread) CFFUHW CFFUSHW	12	0 -0.018	30	12x1.5	14	21	15	14	4.5	1.3		31.4	+0.25 0	23.5	40	44	-	3	6	6	499	1390	100	-	-		
			32									33.7									513	1320	119	-	-		
	16		35	16x1.5	18	26	19.5	18	5.5	1.6	+0.10 0	37		28.5	52	56.75			8		686	1230	187	-	-		

Values of allowable load are values when speed =10km/h.
kgf=Nx0.101972
For Hex Socket on Head, no grease replenishing hole is provided.
The standards of d12, 16 has been modified to those with the hex socket on the head and thread.

Ordering Example: Part Number - D
CFFRUCT10 - 26

Part Number Substitution Table for Cam Follower Standard Changes (d12, 16)

Type	Old Part Number (d12, 16): Old Standard	Old Part Number (d12, 16): Old Hex Socket	New Part Number (d12, 16): Hex Socket on Head and Thread
Plastic	CFFRUC	CFFRUCS	CFFUH
	-	CFFRUCS	CFFUH
	-	CFFRUDS	CFRUH
	-	CFFRUCSS	CFFUSH
	-	CFFRUDSS	CFRUSH
	-	CFFRUCT	CFFUHW
	-	CFFRUCTS	CFFUSHW

Plastic Cam Followers - Plastic Sleeve Retention Test

Test data when a load is applied from the upper part of the cam follower at a constant speed.
Loads when the plastic sleeves came off more than 0.5mm are shown. Travel distance is (speed≤4.5km/h) = 1km, (speed>4.5km/h) = 2km.

Load beyond limit, rotary speed and unbalanced load may cause a plastic sleeve to come off.
* Data below are for reference, not guaranteed.

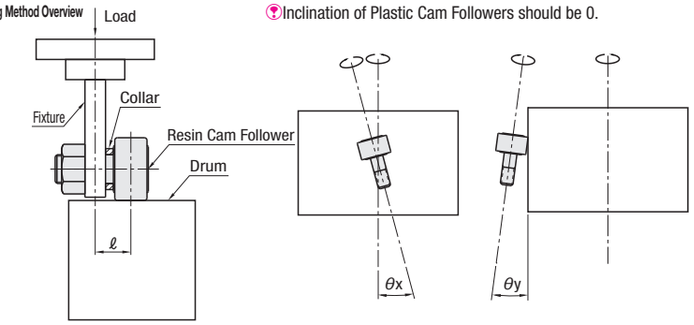
■ Press Fitting Load — Room Temperature 21°C θx=0°, θy=0° — Unit: (N)

Type	d	D Selectable	ℓ	Speed km/h: 1.8	3.6	4.5	5	6	10
CFFRUC CFFRUCS CFFRUCSS CFFRUDS CFFRUDSS	5	13	9	250	250	225	190	125	125
	6	16	11.5	300	300	250	220	180	160
	8	19	11.7	330	310	275	240	180	175
	10	22	14	350	325	300	265	195	185
		26		400	380	350	300	210	193
	12	30	17.8	450	420	350	320	260	240
		32		470	450	400	350	280	250
	16	35	20.5	625	600	550	480	350	320

■ Retaining Ring type Load — Unit: (N)

Type	d	D	ℓ	Speed km/h: 10
CFFRUCT CFFRUCTS	8	19	14.2	576
	10	22	16.5	660
		26		708
	12	30	20.3	588
		32		604
	16	35	23	808

• Testing Method Overview



Inclination of Plastic Cam Followers should be 0.

[Material Properties]

Item	Urethane	MC Nylon
Allowable Load	△	○
Abrasion Resistance	○	△
Mechanical Strength	○	◎
Heat Resistance	×	△
Chemical Resistance	×	○

For Urethane Cam Followers, ☞ P.1051.