

# Resin Cam Followers

Press Fit



# Resin Cam Followers

Retaining Ring



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

■ R

Type		Seal	Material		Accessories
(d5 - 10) Hex Socket on Head	(d12, 16) Hex Socket on Head and Shank		Resin	Cam Followers	
CFFRUDS	CFRUH	Provided	MC Nylon	52100 Bearing Steel	1 Hex Nut (1045 Carbon Steel Carbon Steel, Black Oxide)
CFFRUDSS	CFRUSH			440C Stainless Steel Equivalent	1 Hex Nut (304 Stainless Steel)

⚠ Operating Temperature 50°C or less (Reference)

■ (d5 - 10) Hex Socket on Head

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

⚠ Operating Temperature 80°C or less

Part Number	Type	D Selectable	MxPitch	B	B <sub>1</sub>	L	d	ℓ	ℓ <sub>1</sub>	H	Allowable Load (N)	Allowable Rotational Speed (rpm)	Mass (g)	Unit Price		
														CFFRUDS	CFFRUDSS	CFRUH
(Hex Socket on Head) CFFRUDS CFFRUDSS	5	0	13	5x0.8	9	10	23	7.5	-	3	88	2520	13	-	-	-
	6	-0.012	16	6x1.0	11	12	28				9	112	2210	22	-	-
	8	0	19	8x1.25	12	13	36	11	-	4	122	1960	33	-	-	-
	10	-0.015	22	10x1.25	12	13	36				13	120	1760	50	-	-
(Hex Socket on Head and Shank) CFRUH CFRUSH	12	0	30	12x1.5	14	15	40	3	14	6	156	1390	95	-	-	-
	16	-0.018	35	16x1.5	18	19.5	52				18	150	1320	113	-	-

⚠ Values of allowable load are values when speed = 10km/h.  
 ⚠ 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		Seal	Material		Accessories
(d5-10) Straight Slot	(d12, 16) Hex Socket on Head and Shank		Resin	Cam Followers	
CFFRUC	CFFRUCSS	Provided	MC Nylon	52100 Bearing Steel	1 Hex Nut (1045 Carbon Steel Carbon Steel, Black Oxide)
-	CFFRUCSS			440C Stainless Steel Equivalent	1 Hex Nut (304 Stainless Steel)

⚠ Operating Temperature 50°C or less (Reference)

■ (d5 - 10) Straight Slot

■ (d5 - 10) Hex Socket on Head

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

⚠ Operating Temperature 80°C or less

Part Number	Type	D Selectable	MxPitch	B	B <sub>1</sub>	L	d <sub>1</sub>	d <sub>2</sub>	ℓ	ℓ <sub>1</sub>	H	Allowable Load (N)	Allowable Rotational Speed (rpm)	Mass (g)	Unit Price		
															CFFRUC	CFFRUCSS	CFFRUCSS
(Straight Slot) CFFRUC	5	0	13	5x0.8	9	10	23	3.1	7.5	-	3	88	2520	13	-	-	-
	6	-0.012	16	6x1.0	11	12	28	9				112	2210	22	-	-	-
	8	0	19	8x1.25	12	13	36	11	-	4	122	1960	33	-	-	-	
	10	-0.015	22	10x1.25	12	13	36				13	120	1760	50	-	-	-
(Hex Socket on Head) CFFRUCSS	12	0	30	12x1.5	14	15	40	3	14	6	156	1390	95	-	-	-	
	16	-0.018	35	16x1.5	18	19.5	52				18	150	1320	113	-	-	-

⚠ Values of allowable load are values when speed = 10km/h.  
 ⚠ 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  
CFFRUC12 - 32

Days to Ship: Configure Online

Price: Configure Online

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

■ Flat

Type		Seal	Material		Accessories
(d8, 10) Hex Socket on Head	(d12, 16) Hex Socket on Head and Shank		Resin	Cam Followers	
CFFRUCT	CFFUHW	Provided	MC Nylon	52100 Bearing Steel	1 Hex Nut (1045 Carbon Steel Carbon Steel, Black Oxide)
CFFRUCTS	CFFUSHW			440C Stainless Steel Equivalent	1 Hex Nut (304 Stainless Steel)

⚠ Operating Temperature 80°C or less

■ (d8, 10) Hex Socket on Head

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

(Reference)  
Resin Sleeve

⚠ Operating Temperature 80°C or less

Part Number	Type	D Selectable	MxPitch	ℓ	B	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	B <sub>4</sub>	D <sub>1</sub> Tolerance	D <sub>2</sub>	L	L <sub>1</sub>	d <sub>1</sub>	d <sub>2</sub>	ℓ <sub>1</sub>	H	Allowable Load (N)	Allowable Rotational Speed (rpm)	Mass (g)	Unit Price		
																					CFFRUCT	CFFRUCTS	CFFUHW
(Hex Socket on Head) CFFRUCT CFFRUCTS	8	0	19	8x1.25	11	17	12	11	3.5	1.1	20	+0.15	16	32	35	4	-	518	1960	35	-	-	-
	10	-0.015	22	10x1.25	13	18	13	12	3.5		23	0	18	36	39			5	594	1760	53	-	-
											26	+0.2	27.2	0	0	637	1560	71	-	-	-	-	
(Hex Socket on Head and Shank) CFFUHW CFFUSHW	12	0	30	12x1.5	14	21	15	14	4.5	1.3	31.4	+0.25	23.5	40	44	-	3	499	1390	101	-	-	-
	16	-0.018	35	16x1.5	18	26	19.5	18	5.5		33.7	0	28.5	52	56.75			6	686	1230	187	-	-
											37	0	0	0	0	0	0	0	0	0	0	0	0

⚠ Values of allowable load are values when speed = 10km/h.  
 ⚠ 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

Days to Ship: Configure Online

Price: Configure Online

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

Type	Old Part Number (d12, 16)		New Part Number (d12, 16)
	Old Standard	Old Hex Socket	Hex Socket on Head and Shank
Resin	CFFRUC	CFFRUCS	CFFUHW
	-	CFFRUCS	CFFUHW
	-	CFFRUCSS	CFFUSHW
	-	CFFRUCSS	CFFUSHW
	-	CFFRUCSS	CFFUSHW
	-	CFFRUCS	CFFUHW

Resin Cam Followers - Resin 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.

⚠ Overloading, rotary speed and unbalanced load may cause a plastic sleeve to come off.  
 \* Data below are for reference, not guaranteed.

Type	d	D Selectable	ℓ	Speed km/h					
				1.8	3.6	4.5	5	6	10
CFFRUC CFFRUCSS CFFRUCSS CFFRUCSS CFFRUCSS	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
				400	380	350	300	210	193
				450	420	350	320	260	240
CFFUHW CFFUSHW	12	32	17.8	470	450	400	350	280	250
	16	35	20.5	625	600	550	480	350	320

Testing Method Overview: Load, Inclination of Resin Cam Followers should be 0.

Testing Method Overview

Inclination of Resin Cam Followers should be 0.

[Material Properties]

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

⚠ For Urethane Cam Followers, P:1051.