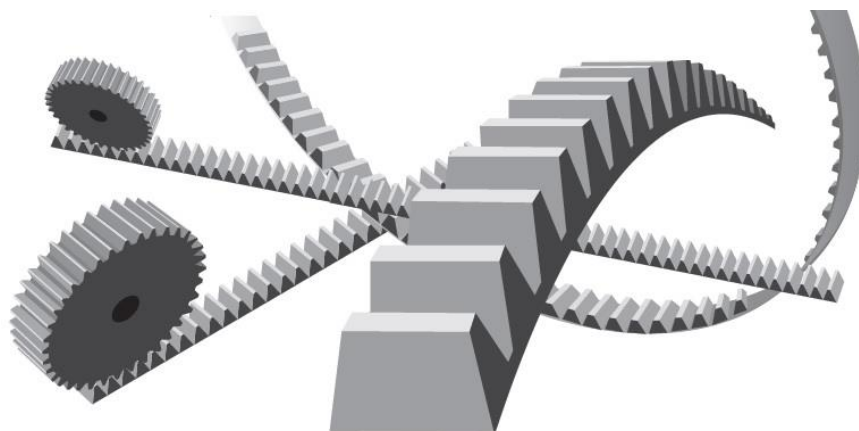


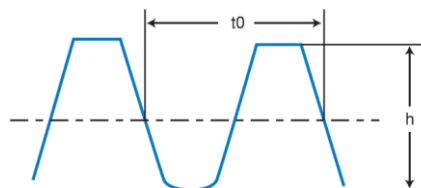
# Flexible Rack



Flexible Rack (Product name: Cable Rack) is a resin coating wire rope with stainless steel cable core, withstanding bending up to R30mm. They are used as flexible Rack and Pinion drive system, ideal when the rack section needs to be flexible and high-force movement required, with excellent low-noise operation.

## Specifications

Model	CL0.8S	CL0.8H	
Size	W 3.0 x H 3.6		(mm)
Breaking load of Gear rack (pinion with 60 teeth)	200 and up		(N)
Minimum bending radius	R30	R60	(mm)
Construction of cable core	7x7	1x7	
Tooth dimension (as shown to the right)	t0 h	2.5±0.1 1.6	(mm)
Materials	cable core teeth	SUS304 Nylon 12	
Operating temperature range	- 30 ~ 80°C		(°C)
Chemical resistance	good		

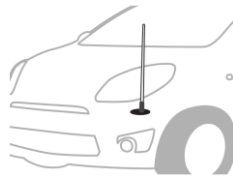


## Applications

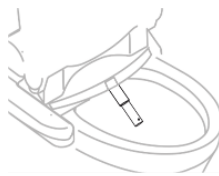
Home appliance, Automotive, general industrial machinery

**Actual example**

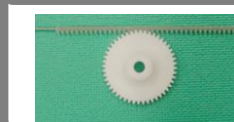
**corner positioning pole**



**Nozzle of electric toilet seat**



Can be used as rack and pinion drive



# Product lineup

## Specifications and Comparison of properties

Legend : 5=Highest, 1=Lowest applicability

Category	Item	Type	Specification(Trial)		1to1 Torque response	High-speed rotation	Push/Pull	Compression	Flexibility	Feature									
			OD(mm)	ID(mm)															
Hollow cable	Torque coil	3layer	0.36-6.05	0.18-5.25	↑	5	3	2	4	bi-directional (3 layers) or unidirectional (2 layers) rotation *Archimedes screw with spiral wire									
		2layer	0.30-5.17	0.15-3.55															
		flat auger*	-	-															
	ACT ONE	standard	0.21-5.22	0.13-4.00						4	3	4	3	3	well balanced properties *Archimedes screw with spiral wire				
		flat	0.21-4.70	0.16-3.95															
		ultra thin auger*	0.42-3.90	0.34-3.35															
Wire coil	round	0.10-3.50	~1.80	1	1	2	4	5	high flexibility and compression resistance										
	flat	0.10-5.90	0.07-5.30																
Cable	Drive Cable	2-6layer	OD(mm)						ID(mm)						↑	5	5	4	2
			0.41-6.00						-										
	Torque rope	1x3,1x7, 1x12,1x19	0.30-3.00						-	4	3	5	4	3					
Wire rope	1x7,1x19 7x7,7x19 7x7x7, etc.	0.09-3.00	-						1	1	5	4	3	High breaking strength and elongation resistance					
Coating	Outer coating	Extrusion Dip coat Spray	Floropolymer Nylon, etc.							To add lubricity, ablation resistance or biocompatible sealing to cable									
	Inner tube		Floropolymer							Inner coating applied to a hollow cable									
	Precoating		PTFE							Coating for both inner and outer of hollow cable without losing the property of the cable									
Assembly	Machining & Assembly	Laser welding, Grinding Tube assembly								Variety of welding and machining available for assembly or additional mechanical property									
	End termination	Ball, Eye, Loop, etc.								For the end of a cable or used for intermediate attaching.									
Power transmission	Synchromesh wire rope	AWS40 -AWS120	1.10-3.40	-						Synchronous round belt, ideal for linear-motion system drawn in 3-dimensional.									
	Cable rack	CL0.8S / H	W3.0xH3.6	-						With stainless cable core, ideal when the Rack needs to be flexible and high-force movement required.									