

Machining & Assembly

Processing on surface



Swaging process

We can decrease O. D. without both I. D. change and decrease of stiffness by beating surface of rope. It improves the anti-elongation



Flat-grinding process

We can perform Flat-grinding on surface of rope in whole length . It improves flexibility of rope without changing I. D..



Auger

We can set additional filar on rope. This structure adds the transportation function to rope.



Marking process

We can put marking to make clear the its position of the wire rope.

End treatment



Electric discharge method

This method makes individual filars avoid being crushed by cutting with nipper.



End treatment by laser

We can unite individual filars into one end by laser welding.



Plasma welding

We can make hemisphere shape at the end of rope. It improves both safety and sliding performance.



L-grinding process

We can perform high precision grinding process to make L-shaped end of rope. This shape helps to connect rope to other materials.

Assembly



Laser welding

We can weld different kind of materials by laser welding.



Solder welding

We can weld different kind of materials by soldering.

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	5	4	2	Optimized for high speed rotation and power transmission					
			0.41-6.00	-											
	Torque rope	1x3,1x7, 1x12,1x19	0.30-3.00	-	4	3	5	4	3	1:1 torque transmission at hand-speed rotation					
		1x7,1x19	0.09-3.00	-											
Wire rope	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.										