

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	↑	↑	↑	↑	↑	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*	-	-							
Torque Hypotube			0.20-1.10	0.10-0.70	5	2	5	5	1	high breaking strength and elongation resistance
ACT ONE	standard	flat	0.21-5.22	0.13-4.00	4	3	4	3	3	well balanced properties *Archimedes screw with spiral wire
		ultra thin	0.21-4.70	0.16-3.95						
Wire coil	round	flat	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	0.41-6.00	-	5	5	5	4	2	Optimized for high speed rotation and power transmission
	Torque rope	1x3,1x7, 1x12,1x19	0.30-3.00	-	4	3	5	4	3	1:1 torque transmission at hand-speed rotation
	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	W3.0 x H3.6	-	With stainless cable core, ideal when the Rack needs to be flexible and high-force movement required.					

ACT ONE®



ACT ONE cable tubes possess a high maximum torque and high torque transmission compared to polymer braided tubes. They also feature higher kink resistance and flexibility compared to hypo tubes. ACT ONE cable tubes are applied to a wide variety of minimally invasive and interventional devices within Cardiology, Peripheral, Neurology, Oncology, Orthopedics, and Endoscopy.

Specifications

Type		1to1 Torque Response	Pushability	Flexibility	OD	ID	Filar*	Length
Standard		5	3	5	0.27-2.80 mm (Trial : 0.21-5.22)	0.16-2.10 mm (Trial : 0.13-4.00)	6-18	up to 3000mm
Flat		4	3	4	0.66-1.57 mm (Trial : 0.21-4.70)	0.44-1.27 mm (Trial : 0.16-3.95)	8-18	up to 3000mm
Swage		4	5	2	0.71-2.46 mm (Trial : 0.39-3.83)	0.45-1.81 mm (Trial : 0.21-3.10)	7-18	up to 3000mm
Ultra Thin		1	1	5	0.50-3.03 mm (Trial : 0.42-3.90)	0.13-2.75 mm (Trial : 0.34-3.35)	2-12	up to 3000mm
Auger		2	3	5	Above ACT ONE with spiral wire, used as Archimedes screw (Japan Patent number : 5408809)			

*By changing the number of filars, the flexibility of ACT ONE can be customized.

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