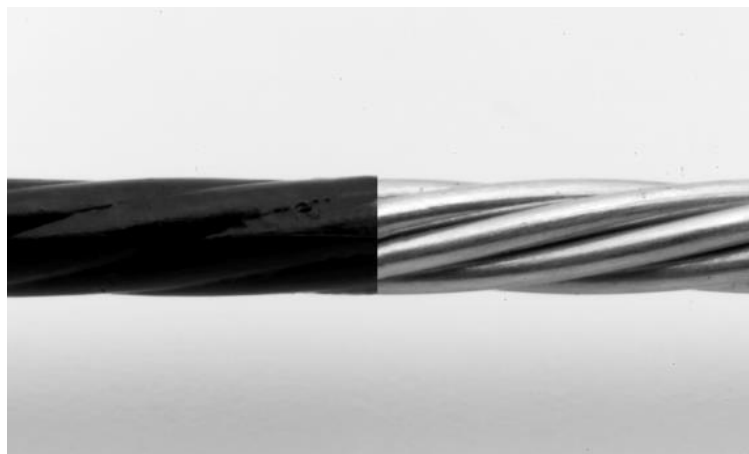


# Outer coating



A stainless steel cable assembly may be sprayed, dipped, or extruded with PTFE, Nylon, and other coatings for your particular abrasion-resistance, lubricity, low coefficient of friction, and long-term durability requirements. Asahi Intecc can precisely mask the ends of the coated stainless steel cable assemblies to attach various in-house iron (FE), stainless steel (SUS, SS), Aluminum (AL), Copper (Cu), and other metallic finishes.

## Comparison of properties

Type	Resin	Abbreviation	Cost (1=lowest)	Heat resistance	Flexibility	Chemical resistance	Lubricity	Minimum thickness
Polyamide	Nylon 12	PA	3	3	2	3	2	20μ
	Nylon 6	PA	3	5	2	3	2	20μ
Polyurethane	Polyurethane	PU	4	2	5	3	1	20μ
Polyethylene	Polyethylene	PE	1	2	3	3	2	20μ
Fluororesin	Fluorinated ethylene propylene	FEP	4	3	2	5	5	20μ
	Perfluoroalkoxy alkanes	PFA	4	5	2	5	3	20μ
	Ethylene tetrafluoroethylene	ETFE	3	3	2	3	2	20μ
	Polytetrafluoroethylene	PTFE	5	5	2	5	5	7μ

### Legend













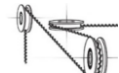

5 = Highest applicability

1 = Lowest applicability

# 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 2layer flat auger*	0.36-6.00 0.30-5.17 - -	0.18-3.20 0.15-3.20 - -	5	5	3	2	4	bi-directional (3 layers) or unidirectional (2 layers) rotation *Archimedes screw with spiral wire
	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 ultra thin auger*	0.21-4.52 0.21-4.52 0.42-3.75 -	0.13-3.20 0.16-3.20 0.34-3.20 -	4	3	4	3	3	well balanced properties *Archimedes screw with spiral wire
	Wire coil		round flat	0.10-3.50 0.10-5.90	~1.80 0.07-5.30	1	1	2	4	5	high flexibility and compression resistance
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.