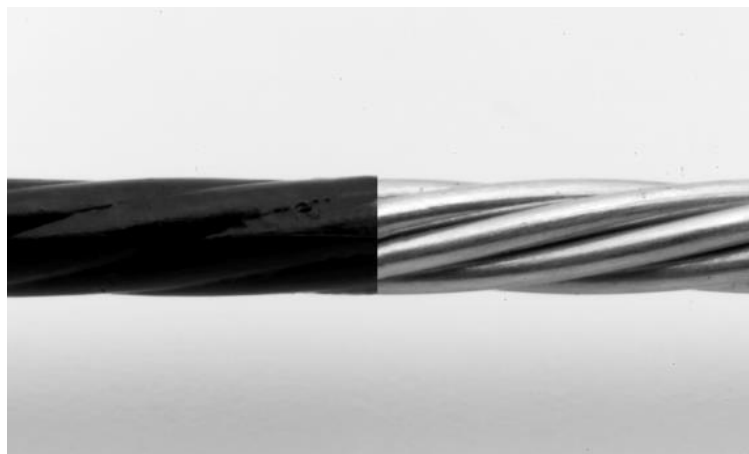


# Outer coating



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	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	0.41-6.00						-						↑	5	5	4	2	Optimized for high speed rotation and power transmission
										Torque rope	1x3,1x7, 1x12,1x19	0.30-3.00	-	4						
	Wire rope	1x7,1x19	0.09-3.00						-		1	1	5	4						3
7x7,7x19 7x7x7, etc.																				
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.														