

Polyurethane PUR sheathed spiral cable is made of abrasion-resistant, oil-resistant and flame-retardant special modified polyurethane PUR mixture, which is resistant to chemical corrosion, acid and alkali resistance, hydrolysis resistance, and ultra-high resilience. It is designed for movable occasions where the outer sheath has higher mechanical force bearing requirements while maintaining the rapid expansion and contraction of the cable.

Polyurethane PUR sheathed spiral cable characteristics:

Using soft conductor structure, good flexibility, good flexibility, high resilience (the elongation length can reach 3-5 times the original spring length), the spiral cable made of pur material is resistant to oil stains, hydrolysis, and weak acid and alkali. Anti-microbial corrosion, anti-aging, anti-ultraviolet and other excellent chemical properties, as well as various excellent physical properties such as bending resistance, abrasion resistance, good elasticity and tear resistance. The service cycle is long, and it can still maintain good stability in continuous work in multiple shifts. Pur spiral cables are currently the most widely used.

Spiral cable structure:

Conductor: high bending strength multiple fine bare copper wire

Insulation: wear-resistant, high-strength, high-elasticity TPE material

Filling: high-strength tensile fiber

Tape: Toughness, high strength, low viscosity, peelable tape

Outer sheath: wear-resistant, oil-resistant, flame-retardant special modified polyurethane PUR mixture

Polyurethane PUR sheathed spiral cable Specification information:

	PVC spiral cable	Pur spiral cable	Pur shielded spiral cable	TPU spiral cable
Elastic elongation	1:3	1:4	1:4	1:3.5
voltage	300/500	300/500	300/500	300/750
working temperature	-5°C ~+70°C	-25°C~+80°C	-25°C~+80°C	-25°C~+80°C
Number of cores (customizable)	2,3,5	2,3,4,5,7,12,18	2,4,5,6,7,8,12,25	2,3,4,5,7,8,12
Nominal cross section of core mm ² (customizable)	0.75,1.5	0.75,1.0,1.5,2.5	0.14,0.25,0.5	0.5,0.75,1.0,1.5,2.5
Screw closure length (WL) mm	200~2800	200~3000	200~1500	500~2500
Tensile range mm	400~5600	800~12000	900~4500	1750~8750
Color of outer sheath	Black, white	Black, white, orange	black	black

Polyurethane PUR sheathed spiral cable is used as a retractable control cable and is widely used in control units that require reciprocating movement, such as various machinery, CNC machine tools, production lines, logistics systems, robots, processing equipment, cranes, production lines, lifting platforms, conveyors , Conveyor belts, agricultural equipment, construction machinery and trucks, etc. and where there are higher requirements for chemical resistance, temperature resistance, and mechanical strength.