

Product name: Recommended table of main uses of wire rope
(GB/T8918-2006)

Application	Name	Structure	Specifications	Remarks
Vertical shaft hoisting	Triangular strand wire rope	6VX37S、6VX34、6VX30、 6VX43、6VX21	See table	
	Line contact wire rope	6X19S、6X19W、6X25Fi、 6X29Fi、6X26WS、6X31WS、 6X36WS、6X41WS	See table	Recommend same twist
	Multi-layer wire rope	18X7、17X7、35WX7、24WX7	See table	Vertical shaft for wire rope access
6QX19+6VX21、6QX33+6VX21		See table		
Shaft hoisting (for shaft construction)	Multi-layer wire rope And special-shaped wire rope	6QX33+6VX21、17X7、18X7、 34X7、36X7、6QX19+6VX21、 4VX39S、4VX48S、35WX7、 24WX7	See table	
Shaft balance rope	Wire Rope	6X37S、6X36WS、4VX39S、 4VX48S	See table	Only applicable for alternating twist
	Multi-layer wire rope	17X7、18X7、34X7、36X7、 35WX7、24WX7	See table	Only applicable for alternating twist
Inclined shaft hoisting (winch)	Triangular strand wire rope	6VX18、6VX19	See table	
	wire rope	6X7、6X9W	See table	Recommend same twist
Blast furnace winch	Triangular strand wire rope	6VX37S、6VX37、6VX30、 6VX34、6VX43	See table	
	Line contact wire rope	6X19S、6X25Fi、6X29Fi、 6X26WS、6X31WS、6X36WS、 6X41WS	See table	
Shaft tankway and ropeway	Triangular strand wire rope	6VX18、6VX19	See table	
	Multi-layer wire rope	18X7、17X7	See table	Recommend same twist
Open-air slope winch	Triangular strand	6VX37S、6VX37、6VX30、	See table	

		wire rope	6VX34、6VX43		
		Line contact wire rope	6X36WS、6X37S、6X41WS、6X49SWS、6X55SWS	See table	Recommend same twist
	Oil drilling	Line contact wire rope	6X19S、6X19W、6X25Fi、6X29Fi、6X26WS、6X31WS、6X36WS	See table	Steel core available
	Steel rope traction belt conveyor, ropeway and ground cable car	Line contact wire rope	6X19S、6X19W、6X25Fi、6X29Fi、6X26WS、6X31WS、6X36WS、6X41WS	See table	Recommend same twist 6X19W is not suitable for cableways
	Excavator (electric shovel winch yard)	Line contact wire rope	6X19S+IWR、6X25Fi+IWR、6X19W+IWR、6X29Fi+IWR、6X26WS+IWR、6X31WS+IWR、6X36WS+IWR、6X55SWS+IWR、6X49SWS+IWR、35WX7、24WX7	See table	Recommend same twist
		Triangular strand wire rope	6VX30、6VX34、6VX37、6VX37S、6VX43	See table	
Crane	Large casting cranes	Line contact wire rope	6X19S+IWR、6X19W+IWR、6X25Fi+IWR、6X36SW+IWR、6X41SW+IWR	See table	
	Port loading and unloading, water conservancy projects and tower cranes for construction	Multi-layer wire rope	18X19S、18X19W、34X7、36X7、35WX7、24WX7	See table	
		Four-strand fan-shaped wire rope	4VX39S、4VX48S	See table	
	Busy lifting and other important uses	Line contact wire rope	6X19S、6X19W、6X25Fi、6X29Fi、6X26WS、6X31WS、6X36WS、6X37S、6X41WS、6X49SWS、6X55SWS、8X19S、8X19W、8X25Fi、8X26WS、8X31WS、8X36WS、8X41WS、8X49SWS、8X55SWS	See table	
Four-strand fan-shaped wire rope		4VX39S、4VX48S	See table		
	Hot steel transfer machine (steel pusher in rolling mill)	Line contact wire rope	6X19S+IWR、6X19W+IWR、6X25Fi+IWR、6X29Fi+IWR、	See table	

		6X31WS+IWR、6X37S+IWR、 6X36WS+IWR		
Ship loading and unloading	Line contact wire rope	6X19W、6X25Fi、6X29Fi、 6X31WS、6X36WS、6X37S	See table	Galvanized
	Multi-layer wire rope	18X19S、18X19W、34X7、36X7、 35WX7、24WX7	See table	
	Four-strand fan-shaped wire rope	4VX39S、4VX48S	See table	
Tugboats, cargo nets	Wire Rope	6X31WS、6X36WS、6X37S	See table	Galvanized
Tensioning masts and drawbridges	Wire Rope	6X7+IWS、6X19S+IWR	See table	Galvanized
Salvaging sunken ships	Wire Rope	6X37S、6X36WS、6X41WS、 6X49SWS、6X31WS、 6X55SWS、8X19S、8X19W、 8X31WS、8X36WS、8X41WS、 8X49SWS、8X55SWS	See table	Galvanized

Note 1: When corrosion is the main reason for scrapping, galvanized steel wire rope should be used;

Note 2: When the steel wire rope is working, the terminal cannot rotate freely, or in the working situation where there is a back-pull force but it cannot be entangled with each other, the same-direction twisted steel wire rope should be used.