

Recommended Applications for Wire Ropes

USE	SIZE (in.)	CONSTRUCTION	LAY	CORE	GRADE
Clamshell					
Holding & Closing Lines	1/2 & Up	6 x 2 5 FW or 6 x 36 WS	RRL	IWRC	EIPS
Boom	1/2 & Up	6 x 19 or 6 x 37 Class	RRL	IWRC	EIPS
Hoist Line	All	6 x 19 Class	RRL	IWRC	EIPS
Tag Line	3/8 & Up	6 x 37 Class	RRL	IWRC	EIPS
Crawler & Truck Cranes					
Hoist Line	All	6 x 19 Class or 19 x 19	RRL	IWRC	EIPS
Boom Hoist Line	All	6 x 19 Class	RRL	IWRC	EIPS
Whip Line	3/8---1-1/2	19 x 7 or 35 x 7	RRL	IWRC	EIPS
Cranes & Hoists					
Overhead	All	6 x 19 Class	RRL	IWRC	EIPS
			RRL	IWRC	EIPS
			RRL	IWRC	EIPS
Ladle Crane	All	6 x 37 Class	RRL	IWRC	EIPS
			RRL	IWRC	EIPS
Dragline					
Hoist Line	Up to 1-1/4	6 x 19 or 8 x 19 Class	RLL	IWRC	EIPS
	1-3/8 & Up	6 x 37 Class	RLL	IWRC	EIPS
Drag Line	3/4---1-1/2	8 x 19 Class	RLL	IWRC	EIPS
	1-5/8---3	8 x 37 Class	RLL	IWRC	EIPS
	3 & Up	8 x 37 Class	RRL	IWRC	EIPS
Boom Hoist	1/2 & Up	6 X 19 Class	RRL	IWRC	EIPS
Shovels					
Hoist Line	Up to 1 1/8	6 x 19 CL or 8 x 19 CL	RLL	IWRC	EIPS
	1-1/4 & Up	6 x 37 CL or 8 X 19 CL	RLL	IWRC	EIPS
Crowd & Retract	3/4 & Up	6 x 37 CL or 8 X 19 CL	RLL	IWRC	EIPS
Boom Hoist	1/2---1-1/4	6 x 19 CL or 8 x 19 CL	RRL	IWRC	EIPS
	1-3/8 & Up	6 x 37 CL or 8 X 19 CL	RRL	IWRC	EIPS
Trip Rope	3/8---1	6 x 37 CL or 8 X 19 CL	RRL	IWRC	IPS
	1" & Up	6 x 37 CL or 8 X 19 CL	RRL	IWRC	IPS
Logging Ropes					
Chokers	All	6 X 19 Class	RRL	IWRC	EIPS
Winch Lines	All	6 X 19 Class	RRL	IWRC	EIPS
Mining					
Slope Rope	All	6 x 19 S	RLL	FIBER	IPS
Shaft Hoist Ropes	All	6 x 19 S or 6 x 25 FW	RLL or	FIBER	IPS
Slusher Rope	All	3 x 19 S or 6 x 19 S	RRL	IWRC	IPS
Mining Machine Rope	All	6 x 36 WS or 6 x 41 WS	RRL	IWRC	EIPS
			RRL		
Marine Ropes					
Towing Hawser	All	6 x 37 Class	RRL	IWRC	EIPS
Mooring Lines	All	6 x 19 or 6 x 37 Class	RRL	IWRC	EIPS
Cargo Falls	All	6 x 37 Class	RRL	IWRC	EIPS
Oil Field					
Rotary Drill Lines	3/4---2	6 x 19 S, 6 x 21 S, 6 x 26 NS	RRL	IWRC	EIPS
Sand Lines	All	6 x 7	RRL	POLY	IPS
Tubling Line	All	6 x 26 WS	RRL or	FIBER	EIPS
Cable Tool Line	All	6 x 21 S	LRL	IWRC	IPS

				POLY FIBER	
Offshore					
Rotary Drill Lines	1---2	6 x 19 S, 6 x 21 S, 6 x 26 CL	RRL	IWRC	EIPS
Riser Tensioner Lines	1-1/4---2	6 x 37 Class	RLL	IWRC	IPS
Guide Lines	1/2---1	6 x 19 Class	RRL	IWRC	IPS
Sand Lines	1/2---5/8	6 x 7	RRL	POLY	IPS
Pendant Lines	1-1/2---3	6 x 19 Class or 6 x 37 Class	RRL	FIBER	EIPS
Crane-Main Hoist	3/4	6 x 37 Class or 35 x 7 Class	RRL	IWRC	IPS or EIPS
Crane-Auxiliary Hoist	3/8---2	35 x 7 Class	RRL	IWRC	EIPS
Anchor Lines	3/8---2-1/4	6 x 37 Class	RRL	IWRC	EIPS
Heavy Lift Slings	1-3/8---6	6 x 37 Class	RRL	IWRC	EIPS
Heavy Lift Slings	1-1/2---4		RLL or LLL	IWRC	EIPS
	3-1/2---10				

Definition of Abbreviations

Grade	Construction	Lay	Core
IPS - Improved Plow Steel	FW - Filler Wire	RRL - Right Regular Lay	IWRC - Wire Rope Core
EIPS - Extra Improved Plow Steel	WS - Warrington Seale	RLL - Right Lang Lay	FC - Fiber Core
GIPS - Galvanized Improved Plow Steel	SFW - Seale Filler Wire	LRL - Left Regular Lay	Fiber - Hemp or Poly Core
EEIPS - Extra, Extra Improved Plow Steel	RR - Rotation Resistant	LLL - Left Lang Lay	Poly - Polypropylene Core
EEEIPS - Extra, Extra, Extra Improved Plow Steel	W - Warrington	RAL - Right Attended Lay	
	S - Seale	LAL - Left Attended Lay	