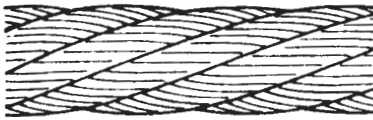




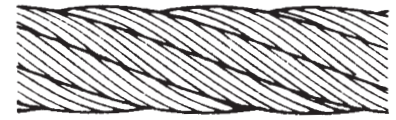
Wire Rope: Popular Classifications



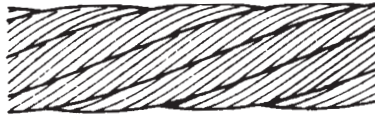
LEFT LAY REGULAR LAY



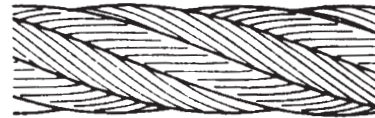
RIGHT LAY REGULAR LAY



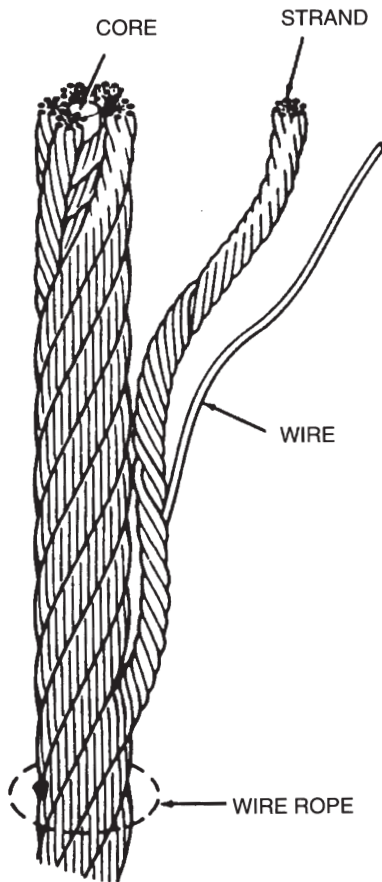
RIGHT LAY LANG LAY



LEFT LAY LANG LAY



ALTERNATE LAY



Based on the Nominal Number of Wires in Each Strand

Classification	Description
6 x 7	Containing 6 strands that are made up of 3 through 14 wires, of which no more than 9 are outside wires.
6 x 19	Containing 6 strands that are made up of 15 through 26 wires, of which no more than 12 are outside wires.
6 x 37	Containing 6 strands that are made up of 27 through 49 wires, of which no more than 18 are outside wires.
6 x 61	Containing 6 strands that are made up of 50 through 74 wires, of which no more than 24 are outside wires.
6 x 91	Containing 6 strands that are made up of 75 through 109 wires, of which no more than 30 are outside wires.
6 x 127	Containing 6 strands that are made up of 110 or more wires, of which no more than 36 are outside wires.
8 x 19	Containing 8 strands that are made up of 15 through 26 wires, of which no more than 12 are outside wires.
19 x 7 and 18 x 7	Containing 19 strands, each strand is made up of 7 wires. It is manufactured by covering an inner rope of 7 x 7 left lang lay construction with 12 strands in right regular lay. (The rotation-resistant property that characterizes this highly specialized construction is a result of the counter torques developed by the two layers.) When the steel wire core strand is replaced by a fiber core, the description becomes 18 x 7.

When a center wire is replaced by a strand, it is considered as a single wire, and the rope classification remains unchanged. There are, of course, many other types of wire rope, but they are useful only in a limited number of applications and, as such, are sold as specialties.



Wire Rope

Suggested Wire Rope For Particular Uses

Preformed or Form-Set construction is used for all ropes shown.

Use	Size (In.)	Construction	Lay	Core	Grade
Clamshell					
Holding & Closing Lines	1/2 - 1-1/4	6 x 25 FW or 6 x 36 WS	RRL	IWRC	EIPS
Boom Hoist Line	1/2 & Up	6 x 25 FW	RRL	IWRC	EIPS
Tag Line	1/4 & 5/16	6 x 36 WS	RRL	FIBER	EIPS
	3/8 & UP	6 x 41 WS	RRL	FIBER	EIPS
Crawler & Truck Cranes					
Hoist Line	1/2 - 1-1/4	6 x 25 FW or 19 x 7 NSNR	RRL	IWRC	EIPS
Boom Hoist Line	All	6 x 25 FW	RRL	IWRC	EIPS
Whip Line	3/8 - 1-1/4	19 X 7 NSNR	RRL	IWRC	EIPS
Cranes & Hoists					
Overhead	1/4 - 7/16	6 x 19 S or 6 x 36 WS	RRL	IWRC	EIPS
	1/2 - 1	6 x 36 WS	RRL	IWRC	EIPS
	1 - 1/8 & Up	6x41 WS	RRL	IWRC	EIPS
Ladie Crane	1/2 - 1	6 x 36 WS	RRL	IWRC	EIPS
	1-1/8 & Up	6x41 WS	RRL	IWRC	EIPS
Dragline					
Hoist Line	Up To 1-1/4	6 x 25 FW or 8 x 25	RLL	IWRC	EIPS
	1-3/8 & Up	6 x 41 WS or 8 x 25, 8 x 36	RLL	IWRC	EIPS
Drag Line	3/4 - 1-1/2	6 x 21 FW or 8 x 25	RLL	IWRC	EIPS
	1-5/8 - 3	6 x 25 FW or 8 x 36	RLL	IWRC	EIPS
	3 & Up	6 x 41 WS or 8 x 36	RLL	IWRC	EIPS
Boom Hoist	1/2 & Up	6 x 25 FW or 8 x 25	RRL	IWRC	EIPS
Shovels					
Hoist Line	Up To 1-1/8	6 x 25 FW or 8 x 25	RLL	IWRC	EIPS
	1-1/4 & Up	6 x 41 WS or 8 x 25	RLL	IWRC	EIPS
Crowd & Retract	3/4 & Up	6 x 41 WS or 8 x 25	RLL	IWRC	EIPS
Boom Hoist	1/2 - 1-1/4	6 x 25 FW or 7 x 25	RRL	IWRC	EIPS
	1-3/8 & Up	6 x 41 WS or 8 x 25	RRL	IWRC	EIPS
Trip Rope	3/8 - 1	6 x 36 WS or 8 x 25	RRL	FIBER	IPS
	1 - & Up	6 x 41 WS or 8 x 25	RRL	FIBER	IPS
Logging Ropes					
Choker	All	6 x 26 WS or 6 x 25 FW	RRL	IWRC	EIPS
Winch Lines	All	6 x 26 WS or 6 X 25 FW	RRL	IWRC	EIPS
Mining					
Slope Rope	All	6x19 S or 6x21 FW	RLL	FIBER	IPS
Shaft Hoist Ropes	All	6 x 19 S or 6 x 25 FW	RLL or RRL	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
Marine Ropes					
Towing Hawser	All	6 x 41 WS	RRL	F.C. or IWRC	EIPS
Mooring Lines	All	6 x 24 S or 6 x 41 WS	RRL	F.C. or IWRC	EIPS
Cargo Falls	All	6 x 36 WS	RRL	IWRC	EIPS
Oil Field					
Rotary Drill Lines	3/4 - 1-1/2	6 x 19 S or 6 x 21 S	RRL	IWRC	EIPS
Sand Lines	All	6 x 7	RRL	POLY	IPS
Tubing Lines	All	6 x 26 WS or 19 x 7 NSNR	RRL or LRL	IWRC	EIPS
Cable Tool Line	All	6 x 21 S	LRL	POLY	IPS
Offshore					
Rotary Drill Lines	1 1-3/4	6 x 19 S	RRL	IWRC	EIPS
Riser Tensioner Lines	1-1/4 - 2	6x41 WS	RLL	IWRC	IPS
Guide Lines	1/2 - 1	6 x 25 FW	RRL	IWRC	IPS
Sand Lines		1/2	6 x 7	FIBER	IPS
Pendant Lines	1-1/2 - 3	6 x 25 FW or 6 x 37 WS	RRL	IWRC	EIPS
Crane-Main Hoist	3/8 - 2	6 x 25 FW or 6 x 37 WS	RRL	F.C. or IWRC	IPS or EIPS
Crane-Auxiliary Hoist	3/8 - 2-1/4	19 x 7 NSNR or 36 x 7 NSNP	RRL	IWRC	EIPS
Anchor Lines	1-3/8 - 6	6 x 37 WS through 6 x 91	RRL	IWRC	EIPS
Heavy Lift Slings	1-1/2 - 4	6 x 37 WS	RRL	IWRC	EIPS
Cable Laid Heavy Lift Slings	3-1/2 - 10	7 x 6 x 41	RLL or LLL	IWRC	EIPS

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 - Filler Core
GIPS - Galvanized Improved Plow Steel	SFW - Seale Filler Wire	LRL - Left Regular Lay	Fiber - Hemp or Poly Core
	NSNR - Non Spin Non Rotating	LLL - Left Lang Lay	Ploy - Polypropylene Core
	W - Warrington		
	S - Seale		