



# Suggested Wire Rope Construction

APPLICATIONS	GENERAL CONDITIONS	SEVERE CONDITIONS
<b>CRANES</b>		
<b>DROP BALLS</b>		
Load Lines	6x25 RR IWRC	6-PAC
<b>GANTRY CRANES</b>		
Main Hoist	6x25 RR IWRC;6x37 Class RR IWRC	6-PAC;SFP19;36DD
Auxiliary Hoist	6x25 RR IWRC	6-PAC;SFP19;36DD
<i>Gantry crane types include: P&amp;H, Demag, Kone and Kranco</i>		
<b>LOCOMOTIVE CRANES</b>		
Main Hoists	6x25 RR IWRC	6-PAC; TRIPLE PAC
Auxiliary Hoist	6x25 RR IWRC	6-PAC; TRIPLE PAC
Boom Hoist	6x25 RR IWRC	6-PAC; TRIPLE PAC
Tag Lines	6x33 Warrington Seale RR FC	n/a
<b>OFFSHORE PEDESTAL CRANES (DRILLING RIGS, PLATFORMS AND BARGES)</b>		
Boom Hoist	6x25 RR IWRC	6-PAC;6-PAC RV; TRIPLE PAC
Hoist Lines	8x19 RR IWRC;19X7	SFP 19;36DD
Auxiliary Lines	8x19 RR IWRC;19X7	SFP 19;36DD
<i>Offshore pedestal crane types include: Applied Hydraulics, Titan, Offshore crane, Unit Mariner, Link-Belt, National, Weatherford, Manitowac, Manitec, Bucyrus-Errie, SeaKing, FAVCO, Liebherr, Le Toureau, Nautilus, Clyde, American, Baker Marine and Skagit.</i>		
<b>OVERHEAD TRAVELING CRANES</b>		
Hoist Lines	6x19 Class RR IWRC;6X37 Class RR IWRC	6-PAC;SFP 19;36DD
<b>ROUGH TERRAIN, ALL TERRAIN, TELESCOPIC AND LATTICE BOOM TRUCK CRANES, LATTICE BOOM HYDRAULIC CRAWLERS AND LATTICE BOOM FRICTION CRAWLERS</b>		
Boom Hoist	6x25 RR IWRC;6X37 Class RR IWRC	6-PAC;6-PAC RV; TRIPLE-PAC
Hoist Lines	6x25 RR IWRC;6X37 Class RR IWRC	6-PAC;TRIPLE-PAC;SFP19;36DD
Auxiliary Lines	8x19 RR IWRC;19x7	SFP 19;36DD
Boom Pendants	6x25 RR IWRC	6-PAC;TRIPLE-PAC
<i>Rough terrain et al crane types include: Galion, Grove, Link-Belt, Lorain, Koehring, P&amp;H, PPM, Tadano, Liebherr; Demag, American, Manitowac, Manitec, National, and Clark</i>		
<b>SIDE BOOM TRACTORS</b>		
Hoist Lines	6x25 RR IWRC	6-PAC; TRIPLE-PAC
Boom Lines	6x25 RR IWRC	6-PAC; TRIPLE-PAC
<b>STILL LEG DERRICKS AND REVOLVING DERRICK CRANES</b>		
Hoist Lines	6x25 RR IWRC	6-PAC;TRIPLE-PAC
Auxiliary Lines	6x25 RR IWRC	6-PAC; TRIPLE-PAC;SFP 19; 36DD
Boom Lines	6x25 RR IWRC	6-PAC; TRIPLE PAC; 36 DD
<i>Derrick crane types include: AMCLYDE, American, Clyde and Manitowac</i>		
<b>TOWER CRANES</b>		
Load Lines	19x7;35x7	SFP 19;36DD
Trolley Lines	6x25 RR IWRC	n/a
<b>WHIRLEY CRANES</b>		
Main Hoist	6x25 RR IWRC	6-PAC;SFP 19;36DD
Auxiliary Hoist	6x25 RR IWRC	6-PAC;SFP 19;36DD
Boom Hoist	6x25 RR IWRC	6-PAC
<i>Whirley crane types include: AMCLYDE, American, FAVCO and Clyde</i>		
<b>DREDGING</b>		
<b>DIPPER DREDGES</b>		
Hoist Lines	6x19 Class RG IWRC;6X37 Class RG IWRC	6-PAC;6-PAC RV
Swinging and Backing Lines	6x19 Class RR IWRC;6X37 Class RG IWRC	6-PAC
Spud Lines	6x19 Class RG IWRC; 6X37 Class RG IWRC	6-PAC
<b>CLAMSHELL DREDGES</b>		
Holding and Closing Lines	6x19 Class RG IWRC	6-PAC
Swing Lines	6x19 Class RG IWRC;6X37 Class RG IWRC	6-PAC
Boom Hoist Lines	6x19 Class RG IWRC	6-PAC;6-PAC RV
Stern or Anchor Lines	6x19 Class RR IWRC	6-PAC
Spud Lines	6x19 Class RG IWRC;6X37 Class RG IWRC	6-PAC
<b>LADDER OR CHAIN BUCKET DREDGES</b>		
Ladder Lines	6x19 Class RR or RG IWRC	6-PAC
Bow and Stern Lines	6x19 Class RR IWRC;6X37 Class RG IWRC	6-PAC
Spud Lines	6x19 Class RG IWRC;6X37 Class RG IWRC	6-PAC
<b>SUCTION DREDGES</b>		
Ladder Lines	6x19 Class RR or RG IWRC	6-PAC
Swing Lines	6x19 Class RR IWRC	6-PAC
Spud Lines	6x19 Class RR IWRC; 6X37 Class RG IWRC	6-PAC
Pontoon Lines	6x19 Class RG IWRC	6-PAC
<b>EXCAVATING</b>		
<b>POWER SHOVELS</b>		
Hoist Lines	6x25 RR or RG IWRC;6X37 Class RG IWRC	6-PAC
	6X37 Class RG IWRC	6-PAC;6-PAC RV
Crowd and Retract Lines	6x25 RR or RG IWRC;6X37 Class RG IWRC	6-PAC;6-PAC RV
Boom Lines	6x25 RR or RG IWRC; 6x37Class RG IWRC	6-PAC;6-PAC RV
Trip Lines	6x19 Warrington RR FC;6x33 Warrington Seale RR FC	n/a



APPLICATION	GENERAL CONDITIONS	SEVERE CONDITIONS
<b>DRAGLINE EXCAVATORS</b>		
Draglines	6x19 Class RG IWRC	6-PAC
Hoist Lines	6x19 Class RR or RG IWRC	6-PAC;6-PAC RV
Boom Lines	6x19 Class RR or RG IWRC;6X37 Class RG IWRC	6-PAC;6-PAC RV
Dump Lines	6x25 RR or RG IWRC	6-PAC;6-PAC RV
<b>CLAMSHELLS</b>		
Hoist Lines	6x19 Class RR IWRC;19x7	6-PAC;TRIPLE-PAC;SFP19;36DD
Holding and Closing Lines	6x19 Class RR or RG IWRC;6x37 Class RR IWRC or FC	6-PAC;6-PAC RV
Boom Lines	6x25 RR IWRC;6x26 RV IWRC	6-PAC;6-PAC RV;TRIPLE-PAC
Tag Lines	6x33 Warrington Seale RR FC	n/a
<b>CARRY-ALL SCRAPERS AND WAGONS</b>		
Hoist and Dump Lines	6x25 RR or RG IWRC;6x37 Class RR or RD IWRC	6-PAC
<b>TRENCH HOES, DITCHERS AND PULL SHOVELS</b>		
Digging Lines	6x19 Class RG IWRC	6-PAC
Hoist Lines	6x25 RR IWRC;6x26 Warrington Seale RR IWRC	6-PAC
Boom Lines or Shear-Leg Lines	6x26 RR IWRC	6-PAC
<b>SHACKLINE EXCAVATORS</b>		
Track Lines	6x19 Class RG FC; flattened strand RG FC	6-PAC;6-PAC RV
Load or Unhaul Lines	6x19 Class RR IWRC	6-PAC
Tension or Track Adjusting Lines	6x25 RR IWRC	6-PAC
<b>HOISTS AND WINCHES</b>		
Construction Hoists	6x19 Class RR IWRC;6x37 Class RR IWRC	6-PAC
Electric and Air Hoists	6x19 Warrington RR FC;19x7;SFP 19	N/A
Winches	6x19 Class RR IWRC;6x37 Class RR IWRC	6-PAC
<b>LOGGING</b>		
<b>EASTERN</b>		
Winch Lines	6x26 Warrington Seale RR IWRC	Super-B
Chokers	6x26 Warrington Seale RR IWRC	n/a
<b>WESTERN</b>		
Archlines	6x26 Warrington Seale RR IWRC	Super-B, SUPER-PAC
Boom Loaders	6x26 Warrington Seale RR IWRC	Super-B, SUPER-PAC
Chokers	6x26 Warrington Seale RR IWRC	Super-B, SUPER-PAC
Haulbacks	6x19 Seale RR IWRC;6x26 Warrington Seale RR IWRC	Super-B, SUPER-PAC
Helicopter Chokers	SKYBRITE	n/a
Mainlines	6x26 Warrington Seale RR IWRC	Super-B, SUPER-PAC
Sawmill Carriage	6x25 RR IWRC	Super-B, SUPER-PAC
Skylines	6x19 Seale RR IWRC;6x26 Warrington Seale RR IWRC	Super-B, SUPER-PAC
Strawlines	6x19 Seale RR IWRC	Super-B, SUPER-PAC
Triple Drum Lines	6x26 Warrington Seale RR IWRC	Super-B, SUPER-PAC
Winch Lines	6x26 Warrington Seale RR IWRC	Super-B, SUPER-PAC
<b>OILFIELD AND MARINE</b>		
Anchor Lines	6x19 Class RR IWRC; 6x37 Class RR IWRC	galvanized, Bethpac, Z-nodes
Coring, Sand& Swabbing Lines	6x7 FC	n/a
Diving Bells	19x7	36DD
Mooring Lines	6x19 and 6x37Classes RG IWRC; galvanized strand	galvanized rope, Bethpac, Z-nodes-nodes
Riser Tensioner Lines	6x37 Class RR IWRC	Bethpac
Rotary Drill Lines	6x19 Seale RR IWRC;6x26 Warrington Seale RR IWRC	Bethpac
Tow Lines	6x37 Class RR IWRC	galvanized
Tubing Lines	6x26 Warrington Seale RR IWRC	Super-B
Work Wire, Chain Chasers	6x19 Class RR IWRC;6x37 Class RR IWRC	galvanized
<b>STEEL MILL</b>		
Bell Ropes	6x25 RR IWRC	6-PAC
Car Puller, Spotter, Retarder Rope	6x19 Class RR IWRC or FC	6-PAC
Ladle Cranes	6x37 Class RR IWRC	6-PAC;TRIPLE-PAC
Ore Bridges and Unloaders	6x19 Class RR IWRC	6-PAC
Skip Hoists	6x19 Class RR or RG FC, flattened strand RG FC	TRIPLE-PAC
Stripper and Soaking Pit Cranes	6x37 Class RG IWRC	6-PAC;TRIPLE-PAC
Digging Lines	6x19 Class RG IWRC	6-PAC
Hoist Lines	6x25 RR IWRC;6x26 Warrington Seale RR IWRC	6-PAC
Boom Lines or Shear-Leg Lines	6x26 RR IWRC	6-PAC

RR= Right regular lay

RG= Right Lang lay

RV=Right reverse lay

FC=Fiber Core

IWRC= Independent wire rope core

BXL, or plastic-infusion, may be added to many standard and specialty wire rope constructions, and is therefore not listed as a recommendation under Severe Conditions. Refer to Specialty Applications: BXL for further information.

In some instances, WWW specifies class and not a specific construction. This is due to multiple diameters used on a particular application, and /or multiple constructions suitable for the application. For more information, please contact WWW's sales or engineering department.