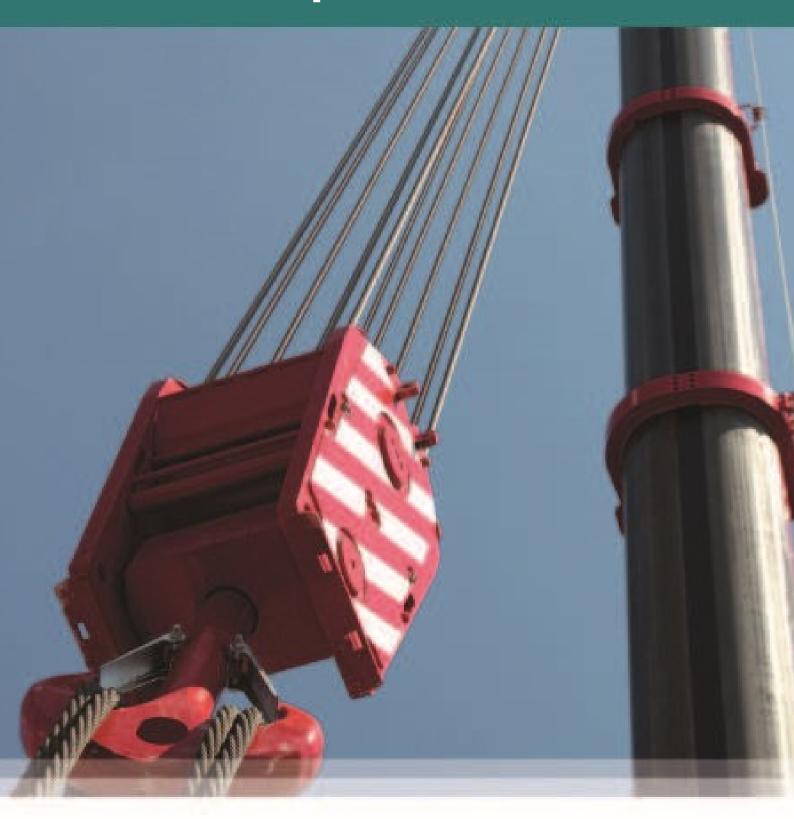
Steelwire rope and accessories



Steel wire rope »

Accessories »

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Steel wire rope and accessories

Crane steel wire ropes

Elevator ropes

Steel wire rope slings

General ropes

Braided wire rope slings

Grommet sling

Container wire slings

Thimbles

Ferrule

Wire rope clamps

Wedge sockets

Spelter sockets

Turnbuckles

Cable socks

Tighten clamps

Rigging screws

Blocks

Wire rope sheaves

Wire rope cutter

Crimping tools

Wire corner protection

Lubricants

Technical description



Symbols



Right hand langs lay on request



Right hand langs lay



Left hand langs lay on request



Left hand langs lay



Ordinary right hand lay on request



Ordinary right hand lay



Ordinary left hand lay on request



Ordinary left hand lay



Right spiral strand



Left spiral strand



Hammered rope



Double parallell lay construction



Compacted strands



Rotation resistant



Not for lifting



Can be used with swivel



Can not be used with swivel



Galvanized



Galavanized on request



Bright oiled



Bright oiled on request



Stainless steel



RCN

Fill factor



Maks. arbejdstemperatur



Tolerance



Rope Category Number)



Tower crane



Mobile crane



Wire rope



Kranbil



Loading crane



Elevator rope



Mobile port crane



Lattice



Overhead cranes



Piling crane



Container crane



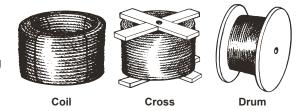
Offshore crane



Use and maintenance

Packing

Wire rope is generally delivered in a coil, plywood or wooden reel. On the European mainland a cross reel is also common. Please specify packaging when ordering.

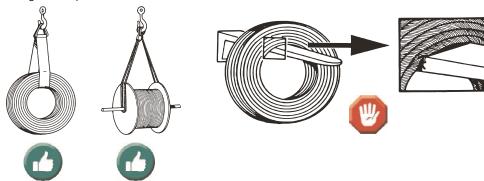




Lifting and Handling

Ensure that the rope is not damaged by fork lifts or other handling equipment, by lifting or handling.

WARNING! Wrong handling/lifting can damage the rope.



Storage

Steel wire ropes shall be stored in a dry and well ventilated location. Cover with waterproof material for outside storage. Rotate the reel periodically during long periods of storage, particuarly in warm environments. The ropes shall be examined regularly and lubricated if necessary.



WARNING!Incorrect storing can cause damage to the wire rope. Never store the rope in an environment with large variations in temperature.



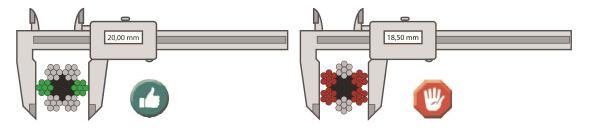
"Breaking in"

After the rope has been installed and before it is taken into operation, several run-throughs of a normal operation cycle should be carried out under light load to let the rope adjust itself to the actual operating conditions.



Wire Rope Diameter

The rope diameter should always be checked before installation. Measure a straight part of the rope. Two parts with minimum distance of one meter should be measured. At every point two measurements should be done, with an angle of 90 degrees displacement in relation to each other. The average between the two measurements should be according to the tolerance detailed in the tables below.





Steel wire ropes for general applications

Nominalrope Ø	Tolerance of nominal diameter
	on unloaded rope
mm	%
2 to <4	0 +8
4 to <6	0 +7
6 to <8	0 +6
=8	0 +5

Nominal rope Ø	The difference between two measurements expressed as the percent from nominal diameter for unloaded rope				
	Rope with strands that are exclusively of wire	Ropes with strands that incorporate fibre centres			
mm	max %	max %			
2 to <4	+7	-			
4 to <6	+6	+8			
6 to <8	+5	+7			
=8	+4	+6			

Steel wire ropes for person elevators

	Nominal rope Ø	Tolerance for nominal diameter for ropes with fibre core/ synthetic core			Tolerance for nominal diameter for ropes with steel core		
ı		Unloaded	Loaded to 5% of min breaking load	Loaded to 10% of min breaking load	Unloaded	Loaded to 5% of min breaking load	Loaded to 10% of min breaking load
1	mm	max %	min %	min %	max %	min %	max %
	=10	+6	+1	0	+3	0	-1
	>10	+5	+1	0	+2	0	-1

Nominal- rope Ø	Difference between two measurements expressed as percentage of nominal diameter under a load equivalent to 5% or 10% of min breaking load			
	Rope ovality	Average diameter variation		
mm	max %	max %		
<8	+4	+3		
=8	+3	+2		

Unwinding

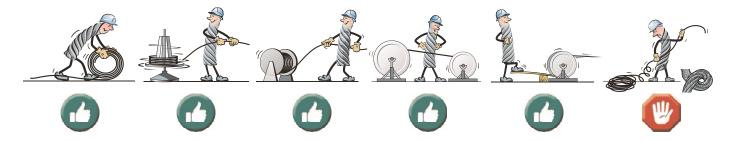
Wrong coiling can cause serious damage to the steel wire rope. Coil or wind according to the following:

- Reels should be rolled out or alternatively placed on a turnable centre.
- Cross reels and drums should be placed on a shaft that allows it to rotate.
- Wind and unwind the rope in the same direction.
- In some cases it may be necessary to brake the drum.



WARNING! Wrong "opening" of packing can cause serious injury to personnel, first ensure that the rope is under control.

Never pull a rope from a stationary reel or drum - due to the risk of kinking.



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Cutting

Usually ropes are supplied in cut lengths, with "tapered" ends made by annealing. If the rope is required to be cut during assembly the rope shall be seized each side of the cut, to prevent damage from opening strands and/or changing lay length.

One seizing either side of the cut is normally sufficient for preformed ropes. For "rotation resistant" and special wire ropes a minimum of two seizings each side of the cut will be necessary. The length of each seizing should be a minimum 2 x rope diameter.

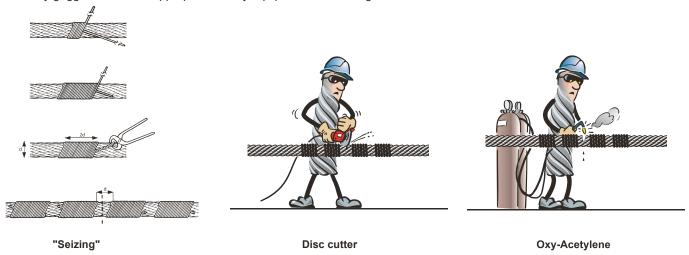
Cutting should be made with a high speed abrasive disc cutter, cutting torch or other suitable mechanical or hydraulic shearing equipment.

After the rope has been cut the seizing should be left until all the wires are welded or otherwise secured.



WARNING! Incorrect cutting can cause damage to the rope. Be extra careful when cutting rotation resistant ropes.

Use safety goggles and other appropriate safety equipment when using a disc cutter or other mechanical or electrical devices.



Drum - Connection

When installing a new rope a cable sock or alternatively a welded pad eye can be used as connection between the old and new rope.

Individual turn between two ropes when installing can be possible with a swivel, which avoids turn being transmitted from the "old" rope into the new rope.



WARNING! Always check that "rope torque" does not exist during installation. A cable sock or other connection should be equipped with a swivel.







Steel wire rope

Along with the world's leading manufacturers of steel wire CERTEX Danmark A/S offers a complete program in ordinary steel wire ropes as well as crane wire ropes and special wire ropes.

We consider ourselves in a position to offer best quality and guidance when choosing a steel wire rope in cooperation with our various partners.

The crane wire ropes are designed and developed specifically in collaboration with crane manufacturers and crane users, so they can satisfy all needs.

All crane wire ropes have extra security

A sample of each production has been tested and pulled to fracture and have achieved or exceeded the required minimum tensile strength.

Each product has undergone a test for steel wire-rotating properties.













