

USER MANUAL
STEEL CABLE WIRE ROPE SLING
AND - ASSEMBLY



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User manual steel cable wire rope sling and -assembly :

Steel cable wire rope slings and –assembly’s are removable connecting means for lifting and attaching loads corresponding the technical data and conditions of use.

It is of essential interest that the mass of the load is known.

The point of connection must have a diameter of minimal 2x the rated cable diameter.

Where necessary (sharp edges, etc...) you must apply protection.

The concerning valid certificate of the steel cable wire rope sling or –assembly always needs to be immediately available.

Excessive damaged, corroded or worn steel cable wire rope sling or –assembly’s may not be used and need to be inspected by an expert body.

Steel cable wire rope slings and –assembly’s needs to be visually inspected every year by an expert body and all attached hooks, rings etc. needs to be visually inspected every year and every four years to be tested.

To be able to lift the loads without turning or tilting , the following conditions needs to be fulfilled:

- The point of connection must lay vertical above the center of gravity,
- By assembly’s with two, three or four parts the points of connection needs to be on both sides of the load and above the center of gravity,

The hook on which the assembly is being hanged needs to be right above the center of gravity.

Shortening or tensioning of steel cable wire rope sling is forbidden.

The load must grip well below in the rounding of the hook, never on the point of the hook or be clamped in an opening.

The hook must be able to turn freely in any direction.

The connection link must be able to turn freely in any direction on the hook on which it has been placed.

Pressure clamps of steel cable wire rope slings or –assembly’s may never be loaded on tears. The diverge hook in the loop, as from the clamp, must be smaller than 60°.

When cable wire rope slings are being wounded more than once around a load, the wounds needs to be close to each other and they are not allowed to cross each other.

Steel cable wire rope slings are not allowed to be knitted.

During use of the steel cable wire rope sling or –assembly never cause a knit in the cable. Hereby the strands construction can be disturbed.

The steel cable or end connection may never get stuck.

An artificial line is recommended by putting down the load to avoid dangerous swinging of the load and to keep in position.

Never leave a loaded steel cable wire rope sling or –assembly unattended.

Pull- or shock loads must be avoided.

It is not allowed to lift the loads with steel cable wire ropes or –assembly’s above or in instand distance of people.

Keep hands and other body parts on distance of the cable to avoid injury when the slack cable is being pulled tight.

Always choose a composition with a workload equal or bigger than the load to be lifted.

The on de steel cable wire rope sling or –assembly indicated WLL must never be exceeded.

When you put down the load you must be sure that the ground is suitable. It must be avoided that the assembly get stuck under the load.

By pulling, with force, the slings with rigid aluminium tubes from under the load the tubes can be damaged.



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By use the steel cable wire rope slings can form bends or kinks and therefor you must work with extreme care by pulling the wire rope slings from under the load to avoid this from happening.

Steel wire rope slings can have yarns which stick out and for this reason you must always wear safety gloves.

Please note that the end connection itself is not deflected by lifting on the sides of the load or the hook.

After all work you must store the equipment on a safe place.

Steel cable wire rope slings or –assembly's are usable with temperatures from -40°C untill +100°C without any form of reduction. Temperatures outside of this range needs to be consulted.

Do not use an assembly when the identification plate is not available or is unreadable.

By use of multy-slings it is important that the outer hook of each part is equal to the vertical.

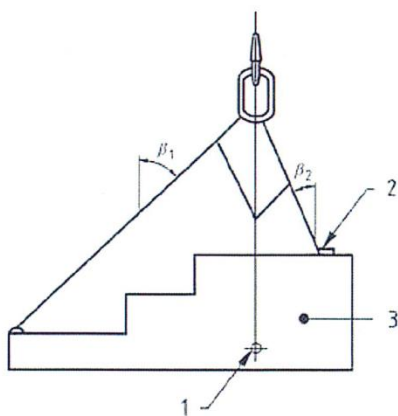
Inclination angles $>60^\circ$ and $<15^\circ$ are not allowed.

By choked use the workload is 80% of the marked WLL.

When a workload is given, a balanced load is assumed. When the load is not balanced an expert must determine a safe workload. For the factor of use see picture below.

Workloads, t, for

	$0^\circ < \beta \leq 45^\circ$	$45^\circ < \beta \leq 60^\circ$	$0^\circ < \beta \leq 45^\circ$	$45^\circ < \beta \leq 60^\circ$
	factor 1,4	factor 1,0	factor 2,1	factor 1,5
	factor 1,6			



Not symmetrical load (standard factor of use is invalid!!)