

Ísfell's Wire Sling Table

Maximum weight in tonnes, WLL (Working Load Limit)



Vertical angle	One leg	Choke hitch	Double chock hitch	Two legs		Three or fore legs		Choke hitch
Angle	0°	Vertical	0°-45°	0°-45°	>45°-60°	0°-45°	>45°-60°	0°
Load factor	1	0,8	1,1	1,4	1	2,1	1,5	1,6
Wire diameter ø mm	WLL in tonnes							
8	0,75	0,60	0,82	1,05	0,75	1,55	1,10	1,20
10	1,15	0,96	1,26	1,60	1,15	2,40	1,70	1,35
11	1,40	1,12	1,54	2,00	1,14	3,00	2,12	2,25
12	1,70	1,36	1,87	2,30	1,70	3,55	2,50	2,70
13	2,00	1,60	2,20	2,80	2,00	4,15	3,00	3,15
14	2,25	1,84	2,47	3,15	2,25	4,80	3,40	3,70
16	3,00	2,40	3,30	4,20	3,00	6,30	4,50	4,80
18	3,70	3,04	4,07	5,20	3,70	7,80	5,65	6,00
20	4,60	3,84	5,06	6,50	4,60	9,80	6,90	7,35
22	5,65	4,56	6,21	7,80	5,65	11,80	8,40	9,00
24	6,70	5,44	7,37	9,40	6,70	14,00	10,00	10,60
26	7,80	6,40	8,58	11,00	7,80	16,40	11,50	12,50
28	9,00	7,20	9,90	12,50	9,00	19,00	13,50	14,50

EN 13414-1 - The table above shows that WLL (Working Load Limit) in tonnes, for various setups of wire slings. Compared to wire 6x36IWRC (1960 N/mm²)

The wire slings are made in accordance to the length and diameter requested by the customer and is not a stock product. The length of the sling is measured from inside of one eye to the other. Having the WLL stamped onto the ferrule can be done upon request.

Instructions for a safe use of wire slings:

- It is adamant that a visual inspection of wire slings and wire sling systems takes place before every use. The inspections should take note of any surface damage, check if there are any breaks in the wire, check if there are any visible corrosion or tears.
- If there is any doubt, seek advice from an expert.
- Before every use, make sure that the wire sling is appropriate for the intended use.
- When it is intended to lift a load using multiple wire slings or a wire sling system, it is critical that the load is distributed equally across all the wires.
- An inspection of the fittings that have been pressed onto the wire needs to take place (ex. ensure that no ends are sticking out).
- Ensure that the eye of the sling is the correct size in relation to the hook which is intended to be used.
- It is necessary to use H or D shackles or other certified fixtures when connecting/fixing the eye of the wire sling to the hook of the crane.
- Ensure that the hook on the crane has the necessary equipment/fixtures that prevents the wire sling or wire sling system from slipping of the hook.