WIRE ROPE CLIPS FORMERLY DIN 741

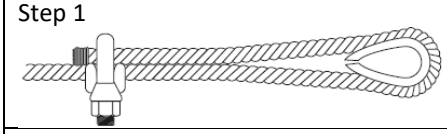
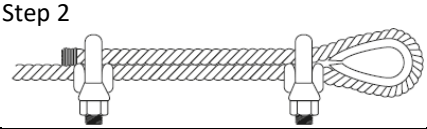
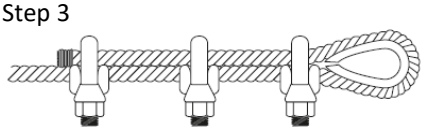
Material and surface

- Malleable cast iron body with zinc plated bridge and nuts
- Stainless steel A4

Application

- Commercial wire rope clips for use with bare cables for secondary applications without safety requirements.
- If safety requirements are set, please select the EN 13411-5.

Installation instructions

⚠	- Select a wire rope clip with the correct dimensions - Never repair a wire rope clips - The bridge of the wire rope clip should - always be placed on the load bearing part of the rope - It is required that the products are regularly inspected and that the inspection should take place in accordance with the safety standards given in the country of use.
Step 1 	- Turn back enough wire rope length so that the required minimum number of clips can be installed - The first clip must be placed on the cable's tail - Tighten the nuts
Step 2 	- The second clip must be placed against the thimble - Tighten the nuts but not yet completely
Step 3 	- The following clips should be placed on the wire rope between the first and second clip in such a way that they are separated by at least 1½ times the clip-width with a maximum of 3 times the clip-width - Apply light tension on the rope and tighten all nuts evenly

Cable diameter [mm]	Torque values* [Nm]	Min. number of clips
3		3
5	2	3
6,5	3,5	3
8	6	4
10	9	4
12	20	4
14	33	4
16	49	4
19	67,7	4
22	107	5
26	147	5
30	212	6
34	296	6
40	363	6

*Torque values are indicative values based on EN 13411-5.

Maximal fixture thickness

L	ST 2,9	ST 3,5	*ST 3,9*	ST 4,2	ST 4,8	ST 5,5	ST 6,3
9,5	3,25	2,85					
11	*4,6*	4,2					
13	6,6	6,2	*5,8*	4,3	3,7		
16	9,6	9,2	*8,8*	7,3	5,5		
19	12,5	12,1	*11,7*	10,3	8,7	8,7	7
22		15,1	*14,7*	13,3	11,7	11,7	10
25		18,1	*17,7*	16,3	14,7	14,7	13
32		25,1	*24,5*	23	21,5	21,5	20
38			*30,5*	29	27,5	27,5	26
45				36	34,5	34,5	33
50				41	39,5	39,5	38
60					*49,5*	*49,5*	*48*
63					*52,5*	*52,5*	*51*
73					*62,5*	*62,5*	*61*
75					*64,5*	*64,5*	*63*
80					*69,5*		*68*
90					*79,5*		*78*
100					*89,5*		*88*

Oblique values not part of ISO 15480-15481-15482

Screw resistance

Diameter	Tension [kN]	Shear [kN]
ST 2,9	2,60	1,30
ST 3,5	3,81	1,90
ST 3,9	4,66	2,33
ST 4,2	5,25	2,63
ST 4,8	7,00	3,50
ST 5,5	9,50	4,75
ST 6,3	13,01	6,51

Calculated values for the screw's resistance itself including the partial safety factor of γ1,15. For tension loads, the inherent resistance of plates to be fixed must be taken into account, which is usually less than the resistance of the screw itself, as the screw will probably tear the plates.

SELF DRILLING SCREWS DIN 7504 – STAINLESS STEEL

HEXAGON HEAD – 7504K
ISO 15480

PAN HEAD – 7504M
ISO 15481

COUNTERSUNK HEAD – 7504O
ISO 15482

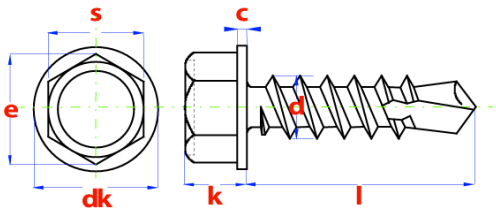
Material and surface

- Stainless steel A2 (AISI 304).

Application

- For the fixing in aluminum and plastics.

Screw properties



For dimensional details see
https://www.pgb-europe.com/files/importfiles/fast/h/tdoc/07504.pdf

Installation parameters

Parameter	Unit	ST2,9	ST3,5	*ST3,9*	ST4,2	ST4,8	ST5,5	ST6,3
Maximal installation force	[N]	150	150	*200*	250	250	350	350
Drill speed	[rpm]	1000-1500	1000-1500	1000-1500	1000-1500	1000-1500	600-1000	600-1000
Drill capacity	[mm]	0,7-1,4	0,7-2,25	*0,7-2,4*	1,75-3,0	1,75-4,4	1,75-5,25	2,5-6,0
Max drill time	[s]	3	4	*4,5*	5	7	11	13
Max torque	[Nm]	1,5	2,8	*3,8*	4,7	6,9	10,4	16,9

Oblique values not part of ISO 10666

Maximal fixture thickness

L	ST 2,9	ST 3,5	*ST 3,9*	ST 4,2	ST 4,8	ST 5,5	ST 6,3
9,5	3,25	2,85					
11	*4,6*	4,2					
13	6,6	6,2	*5,8*	4,3	3,7		
16	9,6	9,2	*8,8*	7,3	5,5		
19	12,5	12,1	*11,7*	10,3	8,7	8,7	7
22		15,1	*14,7*	13,3	11,7	11,7	10
25		18,1	*17,7*	16,3	14,7	14,7	13
32		25,1	*24,5*	23	21,5	21,5	20
38			*30,5*	29	27,5	27,5	26
45				36	34,5	34,5	33
50				41	39,5	39,5	38
60					*49,5*	*49,5*	*48*
63					*52,5*	*52,5*	*51*
73					*62,5*	*62,5*	*61*
75					*64,5*	*64,5*	*63*
80					*69,5*		*68*
90					*79,5*		*78*
100					*89,5*		*88*

Oblique values not part of ISO 15480-15481-15482

Screw resistance A2-50

Diameter	Tension [kN]	Shear [kN]
ST 2,9	1,62	0,81
ST 3,5	2,38	1,19
ST 3,9	2,91	1,46
ST 4,2	3,28	1,64
ST 4,8	4,38	2,19
ST 5,5	5,94	2,97
ST 6,3	8,13	4,07

Calculated values for the screw's resistance itself including the partial safety factor of γ1,15. For tension loads, the inherent resistance of plates to be fixed must be taken into account, which is usually less than the resistance of the screw itself, as the screw will probably tear the plates.