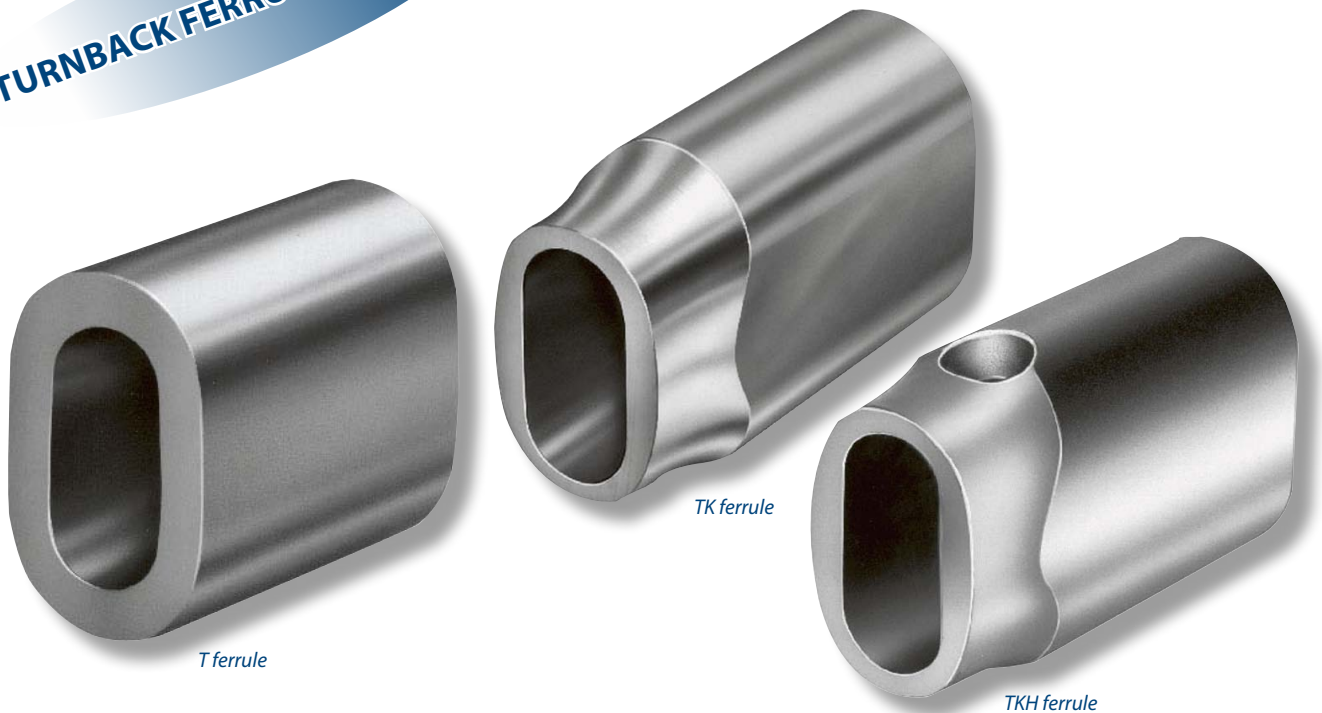


TURNBACK FERRULES



3.3 T, TK AND TKH FERRULES TALURIT™ SYSTEM

GENERAL DESCRIPTION

The aluminium ferrules, type T and type TKH correspond to the European standard (FSET) for turn-back ferrule or ferrule secured eye termination. The standard is EN 13411-3. The ferrule system is specified in Appendix 1. The ferrules are produced from seamfree extrusions which are extruded seamless over mandrel and the aluminium alloy should be AW-5051A according to EN 573-3.

TK ferrules do not correspond to standard mentioned above but have been tested and verified by Talurit (Please follow our swaging instructions as per the technical data sheet).

APPLICATIONS

The aluminium ferrules are the most commonly used in the market, they have a vast variety of applications especially in the lifting gear industry. The T ferrule and TKH ferrule are thoroughly specified and very well defined for many different wire rope applications. Four different cases are tested and verified according to the standard, EN 13411-3. The ferrules can be used for fibre core, single layer wire ropes, steel core single layer wire ropes, rotation resistant wire ropes and some spiral strand ropes.

TO BE NOTED

The turnback ferrule system is easy to use. It is quick, safe and has proved itself to be totally reliable. It is far more efficient than all other swaging methods on the market. T-ferrules less than size no. 5 are allowed to be swaged with hand tools. T-ferrules larger than size 60 need to be swaged using a special multi-stage swaging method.

TALURIT™ SPLICING SYSTEM

Selection chart for T, TK and TKH ferrules

Ferrule No.			Wire rope Capacity Diameter (mm)				Die identification		Diameter after pressing		Length after pressing approx. mm	Required pressure approx. kN
			Fill factor (f=0,40-0,50) Fibre Core		Fill factor (f=0,50-0,60) Steel Core		Dies marked	T/TK/TKH				
T	TK	TKH	Min	Max	Min	Max	T/TK/TKH	mm / Tol				
1			0,9	1,1	0,8	1,0	1	3	+0,1	6,5	5	
1,5			1,2	1,6	1,1	1,4	1,5	3,8	0	8	10	
2			1,7	2,1	1,5	1,9	2	4	+0,15	9	20	
2,5			2,2	2,6	2,0	2,4	2,5	5	0	12	30	
3			2,7	3,2	2,5	2,9	3	6		14	45	
3,5			3,3	3,7	3,0	3,4	3,5	7		16	60	
4			3,8	4,2	3,5	3,8	4	8		18	80	
4,5			4,3	4,7	3,9	4,3	4,5	9		20	100	
5			4,8	5,3	4,4	4,8	5	10		23	125	
6			5,4	6,3	4,9	5,8	6	12	+0,3	27	180	
6,5			6,4	6,8	5,9	6,2	6,5	13	0	29	210	
7			6,9	7,4	6,3	6,7	7	14		32	250	
8	8	8	7,5	8,4	6,8	7,7	8	16		36	320	
9	9	9	8,5	9,5	7,8	8,6	9	18		40	410	
10	10	10	9,6	10,5	8,7	9,6	10	20	+0,4	45	500	
11	11	11	10,6	11,6	9,7	10,5	11	22	0	50	600	
12	12	12	11,7	12,6	10,6	11,5	12	24		54	720	
13	13	13	12,7	13,7	11,6	12,5	13	26		59	850	
14	14	14	13,8	14,7	12,6	13,4	14	28	+0,5	63	1 000	
16	16	16	14,8	16,8	13,5	15,3	16	32	0	72	1 300	
18	18	18	16,9	18,9	15,4	17,3	18	36	+0,6	81	1 600	
20	20	20	19,0	21,0	17,4	19,2	20	40	0	90	2 000	
22	22	22	21,1	23,1	19,3	21,1	22	44		99	2 400	
24	24	24	23,2	25,2	21,2	23,0	24	48	+0,8	108	2 900	
26	26	26	25,3	27,3	23,1	24,9	26	52	0	117	3 400	
28	28	28	27,4	29,4	25,0	26,8	28	56		126	3 900	
30	30	30	29,5	31,5	26,9	28,8	30	60	+1,0	135	4 500	
32	32	32	31,6	33,6	28,9	30,7	32	64	0	144	5 100	
34	34	34	33,7	35,7	30,8	32,6	34	68		153	5 800	
36	36	36	35,8	37,8	32,7	34,5	36	72	+1,1	162	6 500	
38	38	38	37,9	39,9	34,6	36,4	38	76	0	171	7 200	
40	40	40	40,0	42,0	36,5	38,3	40	80		180	8 000	
42	42	42	42,1	44,1	38,4	40,3	42	84	+1,3	191	8 800	
44	44	44	44,2	46,2	40,4	42,2	44	88	0	198	9 700	
46	46	46	46,3	48,3	42,3	44,1	46	92		209	10 600	
48	48	48	48,0	50,4	44,0	46,2	48	96		216	11 500	
50	50	50	48,4	52,5	44,2	47,9	50	100	+1,6	228	12 500	
52	52	52	52,0	54,6	46,3	47,9	52	104	0	234	13 500	
54	54	54	52,6	56,7	48,0	51,7	54	108		246	14 600	
56	56	56	56,0	58,8	50,5	51,9	56	112	+1,7	252	15 700	
58	58	58	56,8	60,9	51,8	55,6	58	116	0	264	16 800	
60	60	60	60,6	63,0	54,7	55,9	60	120		270	18 000	

Please note that these instructions are only applicable to products produced and supplied by Talurit AB, Sweden and Gerro GmbH, Germany!



T ferrule (T)
(aluminium)



TKonit (TK)
(aluminium)



TKonit H (TKH)
(aluminium)

f = Fill factor, is the ratio between the sum of the nominal metallic cross-sectional areas of all the wires in the rope and the circumscribed area of the rope based on its nominal diameter.

C = Nominal metallic cross-sectional area factor of the rope.

$$C = \frac{f \cdot \pi}{4}$$

See page 2 for larger T ferrules!

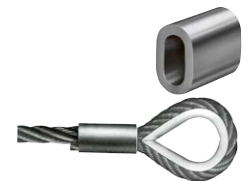
Ferrules: T and TKH have been validated according to EN 13411-3 regarding Ferrule Secured Eye terminations and Ferrule Secured Endless slings. TK-ferrules have been validated according to TALURIT™ splicing system.

Wire rope: Above table applies to bright or galvanized single layer steel wire ropes with round strands and rope grade 1 570 – 1 960. Wire ropes shall conform to EN 12385-4 and 5. The types of rope shall be Ordinary or Lang lay. For higher tensile grade we have an approved system called T-LOC. For higher and lower filling factor, please contact our Technical Department. Note! Please refer to the TALURIT™ Ferrule Securing Instructions for further information.

TALURIT™ SPLICING SYSTEM TABLES OF SIZES FOR LARGER T FERRULES

Ferrule No.	Wire rope Capacity Diameter (mm)				Die identification		Length after pressing approx. mm	Required pressure approx. kN	
	Fill factor (f=0,40-0,50) Fibre Core		Fill factor (f=0,50-0,60) Steel Core		Dies marked	Diameter after pressing			
T	Min	Max	Min	Max	T	mm / Tol			
62*	61,0	65,1	55,7	59,4	62	124	+1,8	282	19 200
66	65,2	69,3	59,5	63,2	66	132	0	300	22 000
70	69,4	73,5	63,3	67,1	70	140	+2,0 0	319	24 500
74*	73,6	77,7	67,2	70,9	74	148		337	27 000
78*	77,8	81,9	71,0	74,7	78	156		355	30 000
82*	82,0	86,1	74,8	78,6	82	164	+2,2 0	373	34 000
86	85,1	90,3	77,7	82,4	86	172		391	37 000
94	93,7	98,7	82,5	88,8	94 DAP 188	188		424	46 000
94	-	-	88,9	95,1	94 DAP 190	190		434	46 000
102	-	-	95,2	101,5	102 DAP 212	212	+2,5 0	464	55 000
102	-	-	101,6	106,8	102 DAP 214	214		475	55 000
116	-	-	106,9	114,0	116 DAP 232	232		529	67 000
116	-	-	114,1	120,0	116 DAP 235	235		541	67 000
128	-	-	120,1	126,0	128 DAP 257	257		583	80 000
128	-	-	127,0	133,5	128 DAP 260	260		597	80 000
152*	-	-	139,5	147,0	152 DAP 302	302		690	115 000
152*	-	-	152,0	160,0	152 DAP 308	308		706	115 000

Please note that these instructions are only applicable to products produced and supplied by Talurit AB, Sweden and Gerro GmbH, Germany!



T ferrule (T)
(aluminium)

Ferrules: T and TKH have been validated according to EN 13411-3 regarding Ferrule Secured Eye terminations and Ferrule Secured Endless slings.

* Available on request.

Wire rope: Above table applies to bright or galvanized single layer steel wire ropes with round strands and rope grade 1 570 – 1 960. Wire ropes shall conform to EN 12385-4 and 5. The types of rope shall be Ordinary or Lang lay. For higher tensile grade, we have a system called T-LOC. For higher and lower filling factor, please contact our Technical Department. Note! Please refer to the TALURIT™ Ferrule Securing Instructions for further information.

f = Fill factor, is the ratio between the sum of the nominal metallic cross-sectional areas of all the wires in the rope and the circumscribed area of the rope based on its nominal diameter.

C = Nominal metallic cross-sectional area factor of the rope. $C = \frac{f \cdot \pi}{4}$

IMPORTANT!

For ferrules larger than size 60 there is a special method for multi-stage swaging!
Always swage according to accurate instructions!