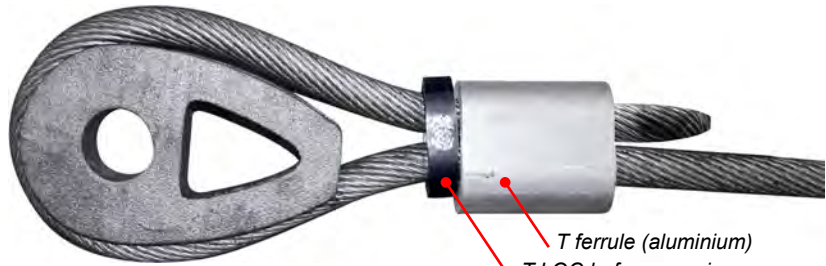




T-LOC



Splitting risk on 2160 grade wire rope without T-LOC



T ferrule (aluminium)
T-LOC before swaging



T-LOC after swaging

T-LOC TALURIT™

Patent pending: Application no. PCT/SE2010/000142
Reinforced aluminium termination.

T-LOC is designed for rotation resistant wire rope of grade 2160 together with T ferrules especially in combination with solid thimble eyes.

The system is tested with rotation resistant wire ropes in class 35(W) x 7 and has been validated according to EN 13411-3. The tested constructions are 34(W) x K7 and 39(W) x K7-WSC, fill factor: 0,74-0,75.

Note! Due to the variety of steel wire ropes, it is difficult to approve all of them. If other wire rope constructions and fill factors are to be used, tests must be done in order to verify the strength of application.

Solid thimble according to DIN 3091 as well as high rope grade apply strain on the side of the ferrule nearest the sling eye. T-LOC prevents any disturbing effect the wider top angle of the sling eye will have on the EN standard ferrule type T.

When using high tensile wire rope of grade 2160, T-LOC will secure the sling eye and prevent the aluminium ferrule from splitting apart. T-LOC is produced from carbon steel and has better tensile strength than aluminium.

Investment in new dies is not necessary, since T-LOC in most cases can be swaged simultaneously with the ferrule and in the same press dies. Longer dies are available. Contact the manufacturer for special instructions when swaging with several stage dies.

Swaged together with the T-ferrule, T-LOC does not require an extra operation. There is no surplus material after swaging and the unit T-LOC and T ferrule are joined without a gap. Note! No other ferrules than T ferrules may be used together with T-LOC.

T-LOC is available for wire rope diameter range 8 to 54,6 mm. The distance from the T-LOC to the solid thimbles before swaging must be at least 2 times the nominal wire rope diameter.

Note! For information about diameter after pressing, required pressure and size of dies please refer to the chart for ferrules in *Ferrule Securing Instruction, Ferrule selection chart according to EN 13411-3*.

Measured wire rope (grade 2160) (inch)	
35(W) x 7	
Fill factor: 0,74 ≤ sf ≤ 0,75	

T-LOC No.	Min (inch)	Max (inch)
10	0,315	0,350
11	0,354	0,390
12	0,394	0,429
13	0,433	0,469
14	0,472	0,508
16	0,512	0,547
18	0,551	0,626
20	0,630	0,705
22	0,709	0,783
24	0,787	0,862
26	0,866	0,941
28	0,945	1,020
30	1,024	1,098
32	1,102	1,177
34	1,181	1,256
36	1,260	1,335
38	1,339	1,413
40	1,417	1,492
44	1,496	1,571
48	1,575	1,728
52	1,732	1,886
56	1,890	2,043
60	2,047	2,150

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

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

Matching wire rope to ferrule

Selection of the correct ferrule is to take account of: 1) the measured rope diameter 2) the rope type (and core) and 3) the nominal fill factor, f (or metallic cross-sectional area factor, C) of the rope.

Applicable rope types and grade

Rotation resistant wire ropes in class 35(W) x 7 as specified in EN 12385-4.

The maximum rope grade is to be 2160. The types of rope lay shall be Ordinary or Lang lay.

Assembly (T-LOC is marked black)



1 Thread ferrule and T-LOC on wire rope.



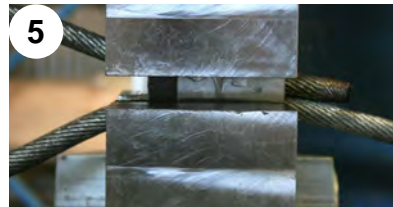
2 Make the eye



3 Incorporate thimble, if used. Further adjustment while swaging.



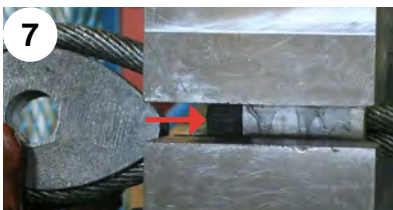
4 Mount in lubricated dies. T-LOC must be positioned next to T ferrule.



5 Use the swager's hold position and swage until T-LOC and ferrule are clamped. STOP.



6 Measure. Distance T-LOC and solid thimble before swaging must be at least 2 times the nominal diameter. For pointed thimbles the distance can be reduced.



7 Make sure that T-LOC remains next to the T ferrule.



8 Swage T-LOC and ferrule (or first part of the ferrule, if the assembly is too long for the dies). Close dies.



9 If a second swaging is required, open dies and swage the second part of the ferrule. Close dies.

Minimum distance between thimble and T-LOC after swaging

