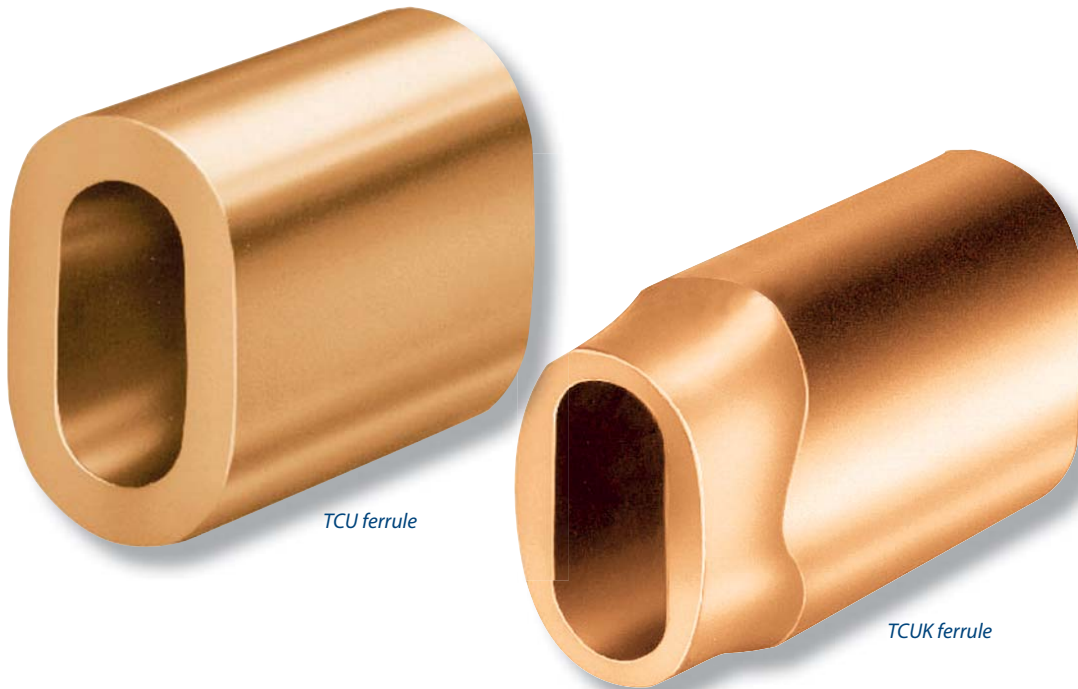


TURNBACK FERRULES



TCU ferrule

TCUK ferrule

3.6 TCU AND TCUK FERRULES TALURIT™ SYSTEM

GENERAL DESCRIPTION

TCU and TCUK ferrules are made from Copper. These ferrules have been validated according to TALURIT™ splicing system, which is within the framework of EN 13411-3. The Copper material is not accepted in this standard.

APPLICATIONS

Copper is used together with stainless steel wire ropes to avoid galvanic corrosion in a saltwater environment. The same dies as in aluminium turnback ferrules can be used. The material is high grade copper in soft condition. The ferrules are seamlessly extruded over mandrel.

TO BE NOTED

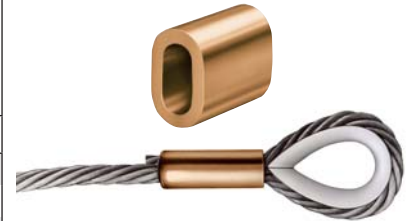
We do not guarantee the strength of slings for lifting activities made of Copper turnback ferrules. A termination performed according to our instructions will normally withstand a tensile strength of 90% of minimum breaking load (MBL) of the wire rope. Verifying tests must be done to secure the strength of the termination.

TALURIT™ SPLICING SYSTEM

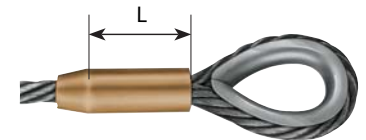
Selection table for TCU and TCUK ferrules

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

Ferrule No.		Wire Rope Capacity Diameter (mm)				Die Identification			Straight length, L, after pressing approx.	Required pressure approx. Valid for TCU (kN)
		Fill factor (f=0,40-0,50) Fibre Core C=0,314-0,393		Fill factor (f=0,50-0,60) Steel Core C=0,393-0,471		Dies marked T	Diameter after pressing (mm) / Tol.			
TCU	TCUK	Min	Max	Min	Max		T			mm
1		0,9	1,0	0,8	0,9	1	3	+0,2	6,5	10
1,5		1,1	1,5	1,0	1,4	1,5	3,8	0	8	20
2		1,6	2,0	1,5	1,9	2	4		9	30
2,5		2,1	2,6	2,0	2,4	2,5	5		12	45
3		2,7	3,1	2,5	2,8	3	6		14	60
3,5		3,2	3,6	2,9	3,3	3,5	7		16	80
4		3,7	4,1	3,4	3,8	4	8		18	100
4,5		4,2	4,6	3,9	4,2	4,5	9		20	125
5		4,7	5,1	4,3	4,7	5	10		23	180
6		5,2	6,1	4,8	5,6	6	12	+0,4	27	210
6,5		6,2	6,6	5,7	6,1	6,5	13	0	29	250
7		6,7	7,1	6,2	6,6	7	14		32	320
8	8	7,2	8,2	6,7	7,5	8	16		36	410
9	9	8,3	9,0	7,6	8,2	9	18		40	500
10	10	9,1	10,1	8,3	9,2	10	20	+0,5	45	600
11	11	10,2	11,2	9,3	10,2	11	22	0	50	720
12	12	11,3	12,3	10,3	11,2	12	24		54	850
13	13	12,4	13,4	11,3	12,2	13	26		59	1 000
14	14	13,5	14,5	12,3	13,2	14	28	+0,7	63	1 300
16	16	14,6	16,1	13,3	14,7	16	32	0	72	1 600
18	18	16,2	18,2	14,8	16,6	18	36	+0,9	81	2 000
20	20	18,3	20,2	16,7	18,4	20	40	0	90	2 400
22	22	20,3	22,4	18,5	20,4	22	44		99	2 900
24	24	22,5	24,6	20,5	22,5	24	48	+1,1	108	3 400
26		24,7	26,9	22,6	24,6	26	52	0	117	3 900
28		27,0	28,6	24,7	26,1	28	56		126	4 500
30		28,7	30,8	26,2	28,1	30	60	+1,4	135	5 100



Copper ferrule (TCU) (copper)



Copper ferrule (TCUK) (copper)

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.

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

TCU and TCUK ferrules:

The TCU and TCUK ferrules have been validated according to TALURIT™ splicing system, which is within the frames of EN 13411-3. Copper as material is not accepted in this standard. We do not guarantee strength of slings for lifting activities made of Copper turnback ferrules. A termination performed according to our instructions will normally withstand a tensile strength of 90% of minimum breaking load (MBL) of the wire rope. Verifying tests must be done in order to find out the strength. Please read our TALURIT™ Splicing Instructions carefully to secure a safe and correct swaging operation.

Wire rope:

Above table applies to new stainless steel wire ropes as well as bright or galvanized wire ropes. It applies to single layer 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 and higher Fill factor, please contact our Technical Department. **Note!** Stainless steel as a material is not included in the EN standard for wire ropes.

Swaging:

The TCU and TCUK ferrules are swaged according to our specified swaging method for turnback ferrules. Please read the swaging instructions for turnback ferrules.

Note!

If the required pressure is higher than indicated in our tables or that the length after swaging does not match our given after swage dimensions, special care must be taken! This is an indication that something is wrong or not matching the parameters in our tables. All selection tables are recommendations built on test results, standard requirements and experience and has to be seen as guidelines. There will always be cases where some specifications are different from what is proven. Always contact our technical department for guidance.