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## TALURIT™ SPLICING SYSTEM

### Table of sizes for Copper TCU ferrules

	Wire Rope Capacity Diameter (mm)				Die Identification			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 (mm) / Tol.		
TCU	Min	Max	Min	Max	T			
GTC015	1,1	1,5	1,0	1,4	1,5	3,8	+0,1	20
GTC02	1,6	2,0	1,5	1,9	2	4	+0,1	30
GTC025	2,1	2,6	2,0	2,4	2,5	5	0	45
GTC03	2,7	3,1	2,5	2,8	3	6		60
GTC035	3,2	3,6	2,9	3,3	3,5	7		80
GTC04	3,7	4,1	3,4	3,8	4	8		100
GTC045	4,2	4,6	3,9	4,2	4,5	9		125
GTC05	4,7	5,1	4,3	4,7	5	10		180
GTC06	5,2	6,1	4,8	5,6	6	12	+0,3	210
GTC065	6,2	6,6	5,7	6,1	6,5	13	0	250
GTC07	6,7	7,1	6,2	6,6	7	14		320
GTC08	7,2	8,2	6,7	7,5	8	16		410
GTC09	8,3	9,0	7,6	8,2	9	18		500
GTC10	9,1	10,1	8,3	9,2	10	20	+0,4	600
GTC11	10,2	11,2	9,3	10,2	11	22	0	720
GTC12	11,3	12,3	10,3	11,2	12	24		850
GTC13	12,4	13,4	11,3	12,2	13	26		1 000
GTC14	13,5	14,5	12,3	13,2	14	28	+0,5	1 300
GTC16	14,6	16,1	13,3	14,7	16	32	0	1 600
GTC18	16,2	18,2	14,8	16,6	18	36	+0,6	2 000
GTC20	18,3	20,2	16,7	18,4	20	40	0	2 400
GTC22	20,3	22,4	18,5	20,4	22	44		2 900
*GTC24	22,5	24,6	20,5	22,5	24	48	+0,8	3 400
*GTC28	27,0	28,6	24,7	26,1	28	56		4 500
*GTC30	28,7	30,8	26,2	28,1	30	60	+1,0	5 100

\*Not stocked. Available on request.

**Note!** Ferrules made of copper (RCU, TCU and TCUK) have many application areas. One of them being the use together with wire ropes made of stainless steel. This is specially advantageous to avoid galvanic corrosion problems.

TCU and TCUK: We do not guarantee strength of slings for lifting activities made of Copper turn-back 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.

Ends stops (R and RCU) are not allowed to use for lifting applications. The expected strength regarding this end-termination is approximately 50% of the MBL of the wire rope (informative only). Accordingly, verifying tests must be performed to secure the strength of the application.

Wire rope: Above table applies to wire ropes made of stainless steel, 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 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.

Please refer to TALURIT Ferrule Securing Instruction for further information.

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



Copper ferrule (TCU) (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.

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