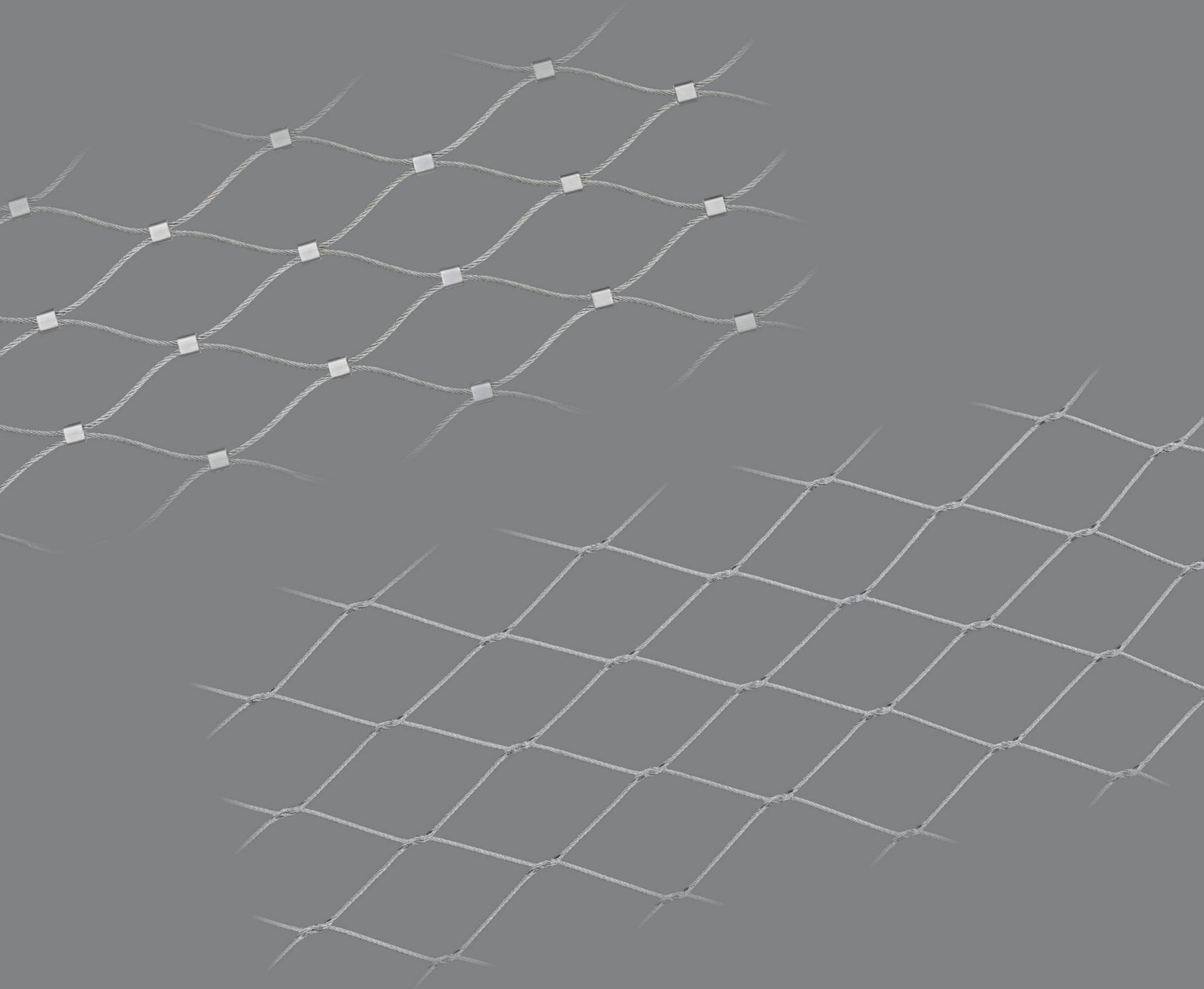


# Webnet Duplex



### Increased corrosion resistance for demanding environments

Webnet Duplex combines the proven properties of Webnet with the special corrosion resistance of the material 1.4462 / AISI 318LN. By using this high-quality stainless steel, Webnet Duplex achieves corrosion resistance class 4 (CRC) in accordance with SN EN ISO 12944

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### Advantages of Webnet Duplex

#### Ideal for demanding environments:

Whether bridges and roads with intensive exposure to road salt, coastal structures with salt water contact, industrial and urban areas with air pollutants, desert regions with sandstorms or industrial plants – Webnet Duplex offers very high durability and corrosion resistance.

#### Longer service life and lower maintenance costs:

With improved resistance to pitting, crevice and stress corrosion cracking, Webnet Duplex reduces maintenance costs and extends service life.

#### Jakob Engineering and production:

Webnet Duplex is completely manufactured and assembled by Jakob Rope Systems. This guarantees consistently high quality standards and precise processing. Our engineering department supports customers with dimensioning and statics. We supply Webnet Duplex for every project.

### Areas of application

- Bridges and roads: High resistance to road salt and exhaust fumes.
- Coastal structures: Resistant to salt water, sea air and high humidity.
- Infrastructure and urban areas: Protection against air pollutants and acid rain.
- Desert regions: Resistant to abrasive sand and extreme temperature fluctuations.
- Industrial plants in arid regions: Resistant to many pollutants, especially in the oil and gas industry.

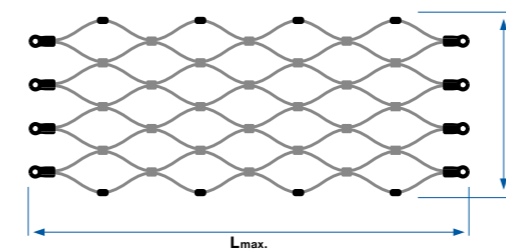
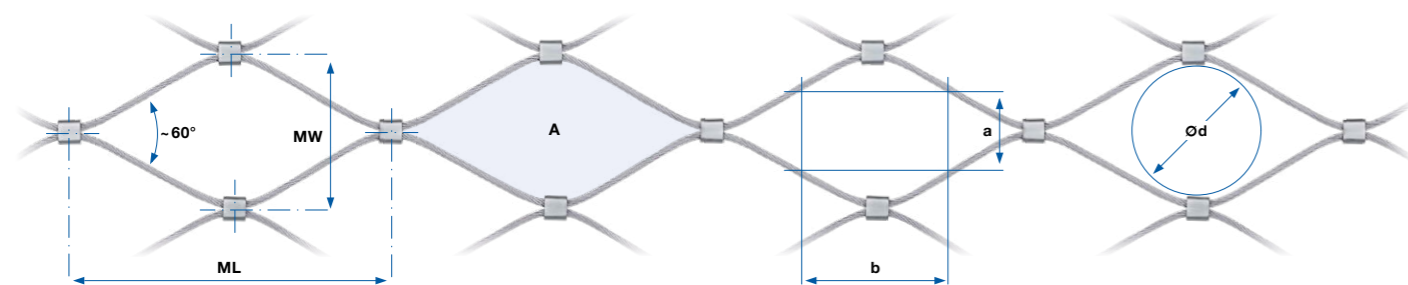
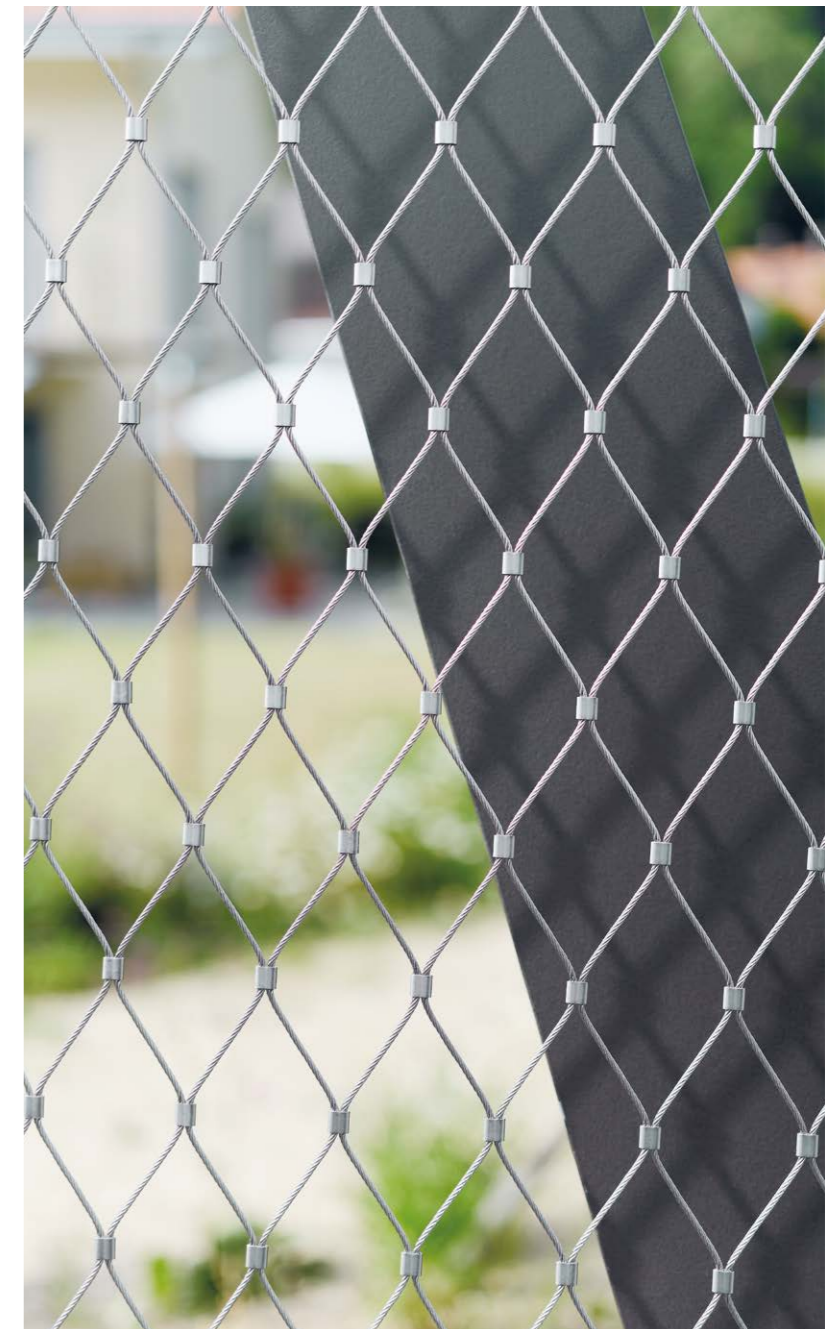
### Note on use

Despite its high corrosion resistance, material 1.4462 is not risk-free in chlorine-containing environments (e.g., chlorine vapor in indoor swimming pools) or when in contact with aggressive chemicals.

Webnet Duplex should not be used as a load-bearing element, particularly in environments with high concentrations of free chlorine. We recommend careful, situation-specific testing in environments with potentially aggressive media.

Our well-proven products Webnet Micro and Webnet sleeveless made from the highly resistant materials 1.4401 and 1.4404 (AISI 316 and 316L) already offer very high corrosion protection and meet most requirements. With the Webnet Duplex range extension, we offer an additional and even more powerful solution with greater durability and increased corrosion resistance.

No.	Rope Ø mm	Construction	Mesh aperture MW x ML mm	Weight kg/m <sup>2</sup>	Rope length m/m <sup>2</sup>	Number of sleeves per/par/per m <sup>2</sup>	Mesh aperture <sup>1</sup>				max. production lengths <sup>2</sup> Lmax. m	Light transmission %
							A mm <sup>2</sup>	a mm	b mm	Ød mm		
20268-0150-025	1,5	6x7+WC	25 x 45,46	1,78	88	1822	476	12	22	19	40	79,2
20268-0150-030	1,5	6x7+WC	30 x 60,73	1,24	73	1105	794	14	30	24	40	84
20268-0150-035	1,5	6x7+WC	35 x 67,98	1,16	62	855	1060	16	33	29	50	86
20268-0150-040	1,5	6x7+WC	40 x 75,18	0,82	55	663	1361	19	37	34	60	88,6
20268-0150-050	1,5	6x7+WC	50 x 91,39	0,62	44	451	2113	24	45	44	70	91,1
20268-0150-060	1,5	6x7+WC	60 x 107,78	0,49	38	315	3033	29	53	54	80	92,8
20268-0150-070	1,5	6x7+WC	70 x 124,78	0,46	32	232	4138	34	62	61	85	94
20268-0150-080	1,5	6x7+WC	80 x 141,45	0,33	29	189	5399	39	70	69	90	94,8
20268-0150-100	1,5	6x7+WC	100 x 175,34	0,29	22	126	8449	49	87	87	100	96
20268-0150-120	1,5	6x7+WC	120 x 210,36	0,23	18	85	12243	59	104	104	100	96,7
20268-0150-140	1,5	6x7+WC	140 x 244,98	0,19	16	60	16710	69	122	122	100	97,2
20268-0150-160	1,5	6x7+WC	160 x 280,1	0,16	14	46	21908	79	139	139	100	97,6
20268-0150-180	1,5	6x7+WC	180 x 314,33	0,14	13	39	27730	89	156	157	100	98
20268-0150-200	1,5	6x7+WC	200 x 348,51	0,13	11	33	34232	99	173	174	100	98,2
20268-0150-250	1,5	6x7+WC	250 x 435,6	0,12	9	22	53680	124	217	218	100	98,5
20268-0200-040	2	6x7+WC	40 x 74,93	1,49	55	663	1308	18	36	33	60	84,3
20268-0200-050	2	6x7+WC	50 x 91,11	1,13	44	451	2049	23	45	43	70	87,9
20268-0200-060	2	6x7+WC	60 x 107,54	0,89	38	315	2959	28	53	53	80	90,3
20268-0200-070	2	6x7+WC	70 x 124,1	0,72	32	232	4038	33	61	60	85	91,8
20268-0200-080	2	6x7+WC	80 x 141,03	0,63	29	189	5296	38	69	69	90	93
20268-0200-100	2	6x7+WC	100 x 175,16	0,47	22	126	8334	48	87	86	100	94,5
20268-0200-120	2	6x7+WC	120 x 209,78	0,36	18	85	12082	58	104	103	100	95,6
20268-0200-140	2	6x7+WC	140 x 244,11	0,31	16	60	16503	68	121	121	100	96,3
20268-0200-160	2	6x7+WC	160 x 278,29	0,26	14	46	21599	78	138	138	100	96,8
20268-0200-180	2	6x7+WC	180 x 313,2	0,25	13	39	27443	88	156	156	100	97,2
20268-0200-200	2	6x7+WC	200 x 348,4	0,20	11	33	34014	98	173	173	100	97,5
20268-0200-250	2	6x7+WC	250 x 435,2	0,16	9	22	59373	123	217	217	100	98
20268-0300-040	3	6x19+WC	40 x 74,8	3,98	60	760	1198	17	36	30	60	74,3
20268-0300-050	3	6x19+WC	50 x 90,5	2,82	48	490	1909	22	44	40	70	76
20268-0300-060	3	6x19+WC	60 x 106,6	2,20	40	360	2771	27	51	50	80	84
20268-0300-070	3	6x19+WC	70 x 124	1,76	34	260	3869	32	60	59	85	87
20268-0300-080	3	6x19+WC	80 x 141	1,46	30	195	5110	37	69	68	90	88,7
20268-0300-100	3	6x19+WC	100 x 175	1,14	25	130	8101	47	86	85	100	91,4
20268-0300-120	3	6x19+WC	120 x 209	0,93	21	95	11655	57	103	102	100	93
20268-0300-140	3	6x19+WC	140 x 244	0,78	18	73	16191	67	120	120	100	94
20268-0300-160	3	6x19+WC	160 x 279	0,67	16	57	21309	77	138	137	100	95
20268-0300-180	3	6x19+WC	180 x 313	0,57	14	45	27040	87	155	155	100	95,6
20268-0300-200	3	6x19+WC	200 x 346,18	0,45	11	33	33372	97	172	172	100	96
20268-0300-250	3	6x19+WC	250 x 432,95	0,33	9	22	52571	122	215	216	100	97
20268-0300-300	3	6x19+WC	300 x 519,38	0,28	7	18	76059	147	258	259	100	97,5
20268-0300-400	3	6x19+WC	400 x 691,89	0,23	6	12	135930	197	344	347	100	98,2

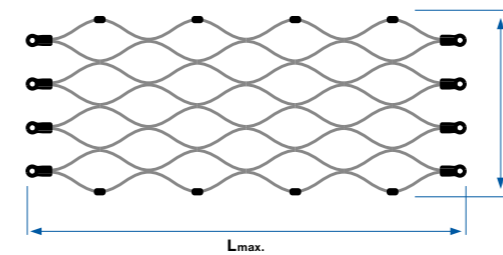
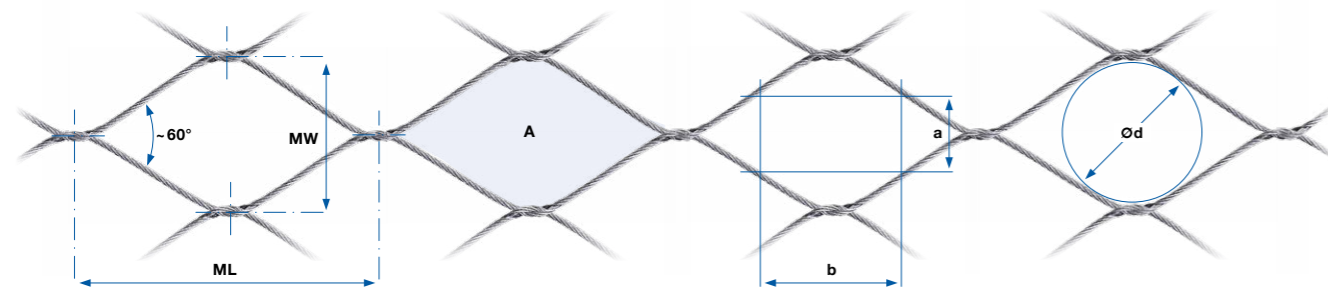


<sup>1</sup> The stated passage dimensions change with a deviating mesh angle of ~ 60°.

<sup>2</sup> The maximum net length (L<sub>max</sub>) refers to the horizontal mesh direction. There are no production limits for the height (H). However, for logistical and installation reasons, the total weight per net must be taken into consideration. Delivery of excess lengths are only possible after prior approval.

**Webnet Duplex sleeveless** Material group 318LN/1.4462 | Mesh angle ~60°

No.	Rope Ø mm	Construction	Mesh aperture MW x ML mm	Weight kg/m <sup>2</sup>	Rope length m/m <sup>2</sup>	Number of sleeves per/par/per m <sup>2</sup>	Mesh aperture <sup>1</sup>				max. production lengths <sup>2</sup> L <sub>max.</sub> m	Light transmission %
							A mm <sup>2</sup>	a mm	b mm	Ød mm		
20269-0150-025	1,5	6x7+WC	25 x 44,61	0,87	118	1617	482	11	22	21	20	86,6
20269-0150-030	1,5	6x7+WC	30 x 60,18	0,67	88	976	803	14	29	27	20	89
20269-0150-035	1,5	6x7+WC	35 x 66,74	0,61	72	781	1056	16	33	30	25	90,5
20269-0150-040	1,5	6x7+WC	40 x 74,76	0,50	65	587	1370	19	37	35	30	91,6
20269-0150-050	1,5	6x7+WC	50 x 89,74	0,40	53	377	2091	24	44	43	40	93,6
20269-0150-060	1,5	6x7+WC	60 x 105,66	0,34	44	263	2989	29	52	51	40	93,5
20269-0150-070	1,5	6x7+WC	70 x 124,58	0,28	38	182	4147	34	62	61	50	95
20269-0150-080	1,5	6x7+WC	80 x 139,56	0,25	34	149	5343	39	69	69	50	95,7
20269-0150-100	1,5	6x7+WC	100 x 174,6	0,20	27	85	8420	49	87	86	60	96,4
20269-0150-120	1,5	6x7+WC	120 x 208,48	0,17	23	56	12149	59	103	104	60	97
20269-0150-140	1,5	6x7+WC	140 x 243,06	0,15	19	42	16595	69	121	121	60	97,5
20269-0150-160	1,5	6x7+WC	160 x 277,75	0,13	18	30	21740	79	138	139	60	97,8
20269-0150-180	1,5	6x7+WC	180 x 313,56	0,12	15	22	27679	89	156	156	60	98
20269-0150-200	1,5	6x7+WC	200 x 349,88	0,10	13	16	34384	99	174	174	60	98,2
20269-0150-250	1,5	6x7+WC	250 x 432,43	0,08	10	9	53305	124	215	217	60	98,6
20269-0200-040	2	6x7+WC	40 x 74,8	0,93	65	587	1328	18	36	34	30	88,8
20269-0200-050	2	6x7+WC	50 x 89,72	0,75	56	377	2040	23	44	43	40	91
20269-0200-060	2	6x7+WC	60 x 105,72	0,63	44	263	2931	25	52	51	40	92,4
20269-0200-070	2	6x7+WC	70 x 122,35	0,54	38	182	4002	33	60	60	50	93,5
20269-0200-080	2	6x7+WC	80 x 139,57	0,47	34	149	5263	38	69	68	50	94,3
20269-0200-100	2	6x7+WC	100 x 173,48	0,38	27	85	8275	48	86	86	60	95,4
20269-0200-120	2	6x7+WC	120 x 207,52	0,31	23	56	11973	58	103	104	60	96,2
20269-0200-140	2	6x7+WC	140 x 243,06	0,27	19	42	16454	68	120	122	60	96,7
20269-0200-160	2	6x7+WC	160 x 276,27	0,23	18	30	21463	78	137	139	60	97,1
20269-0200-180	2	6x7+WC	180 x 313,17	0,21	15	22	27463	88	156	157	60	97,4
20269-0200-200	2	6x7+WC	200 x 346,8	0,19	13	16	33879	98	172	175	60	97,7
20269-0200-250	2	6x7+WC	250 x 433,35	0,16	10	9	53167	123	216	219	60	98,2
20269-0300-040	3	6x19+WC	40 x 73,86	2,28	65	587	1248	17	35	33	30	83,4
20269-0300-050	3	6x19+WC	50 x 88,26	1,86	53	377	1909	22	43	42	40	86,5
20269-0300-060	3	6x19+WC	60 x 105,66	1,56	44	263	2812	27	51	50	40	88,7
20269-0300-070	3	6x19+WC	70 x 122,46	1,33	38	182	3869	32	60	59	50	90,3
20269-0300-080	3	6x19+WC	80 x 139,49	1,16	34	149	5104	37	68	68	50	91,5
20269-0300-100	3	6x19+WC	100 x 173,32	0,94	27	85	8072	47	85	85	60	93,1
20269-0300-120	3	6x19+WC	120 x 207,26	0,78	23	56	11723	57	102	103	60	94,3
20269-0300-140	3	6x19+WC	140 x 241,74	0,66	19	42	16089	67	119	120	60	95
20269-0300-160	3	6x19+WC	160 x 276,52	0,59	18	30	21168	77	137	138	60	95,7
20269-0300-180	3	6x19+WC	180 x 310,96	0,52	15	22	26913	87	154	156	60	96,2
20269-0300-200	3	6x19+WC	200 x 345,87	0,47	13	16	33393	97	171	173	60	96,5
20269-0300-250	3	6x19+WC	250 x 433,56	0,38	10	9	52696	122	215	218	60	97,2
20269-0300-300	3	6x19+WC	300 x 517,28	0,31	9	7	75800	147	257	261	60	97,7
20269-0300-400	3	6x19+WC	400 x 685,35	0,16	7	3	134690	197	341	348	60	98,3

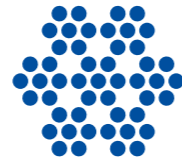


<sup>1</sup>The stated passage dimensions change with a deviating mesh angle of ~60°.

<sup>2</sup>The maximum net length (L<sub>max.</sub>) refers to the horizontal mesh direction. There are no production limits for the height (H). However, for logistical and installation reasons, the total weight per net must be taken into consideration. Delivery of excess lengths are only possible after prior approval.

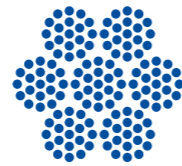
**Circular wire strand rope Duplex** Material group AISI 318LN/1.4462

No.	Rope Ø	Construction	Minimum breaking load	Weight
	mm		kN	kg/m <sup>2</sup>
10820-0151	1,5	6 × 7 + WC	1,3	0,009
10820-0201	2	6 × 7 + WC	2,44	0,016



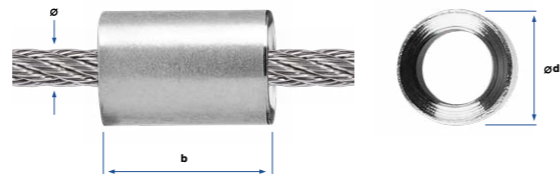
**Circular wire strand rope Duplex** Material group AISI 318LN/1.4462

No.	Rope Ø	Construction	Minimum breaking load	Weight
	mm		kN	kg/m <sup>2</sup>
10830-0301	3	6 × 19 + WC	5,12 kN	0,037



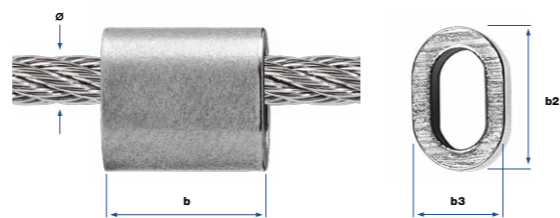
**Sleeve Webnet Duplex** Material group AISI 318LN/1.4462

No.	Rope Ø	b	Construction Ød	Weight
	mm	mm	mm	kg/m <sup>2</sup>
30584-0101	1	4	4	0,001
30584-0151-10	1,5	5,5	5,7	0,001



**Sleeve Webnet Duplex** Material group AISI 318LN/1.4462

oval No.	Rope Ø	b1	b2	Construction b3	Weight
	mm	mm	mm	mm	kg/m <sup>2</sup>
30584-0151-20	1,5	5,5	5,4	3,7	0,001
30584-0201-20	2	7,5	7	4,7	0,001
30584-0301	3	11	9,3	7	0,002



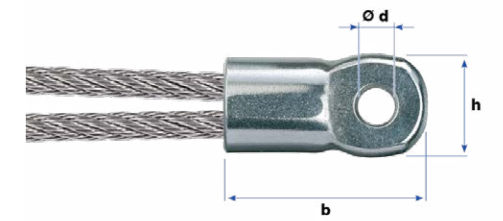
**Connecting sleeve Webnet Duplex** Material group AISI 318LN/1.4462

No.	Rope Ø	b	Construction Ød	Weight
	mm	mm	mm	kg/m <sup>2</sup>
30584-0301-02	3	18	7	0,004



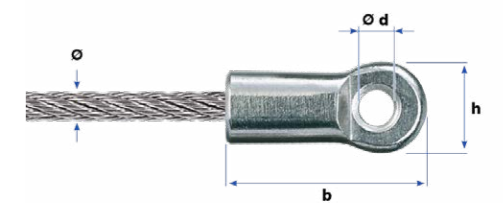
**Eyelet Webnet Duplex self-assembly** Material group AISI 318LN/1.4462

for two ropes		Rope Ø	b	h	k	Construction Ød	Weight
No.		mm	mm			mm	kg/m <sup>2</sup>
30880-0151-01		1,5	16	8,2	3	3	0,003
30880-0201-01		2	20	10	3	4,5	0,004
30880-0301-01		3	30	14	5	6	0,013



**Eyelet Webnet Duplex self-assembly** Material group AISI 318LN/1.4462

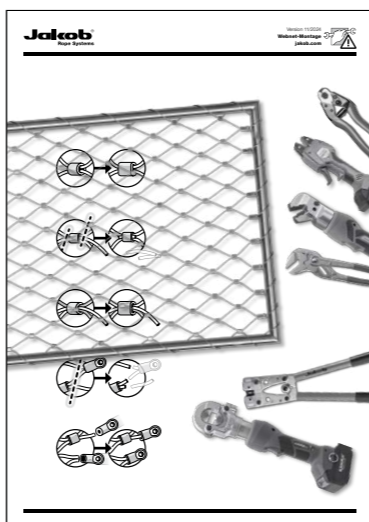
for one rope		Rope Ø	b	h	k	Construction Ød	Weight
No.		mm	mm			mm	kg/m <sup>2</sup>
30880-0151-02		1,5	16	8,2	3	3	0,003
30880-0201-02		2	20	10	3	4,5	0,004
30880-0301-02		3	30	14	5	6	0,014



### Selection and use of duplex sleeves for Webnet

The procedure for installing Webnet Duplex and the individual work steps are the same as for the existing Webnet product groups. However, the Duplex sleeves intended for this purpose are used.

[jakob.com](http://jakob.com) > Downloads > Assembly Instructions > [Assembly instructions Webnet \(PDF\)](#)



### Webnet swaging tool type 1

Ø 1,5 / 2 mm

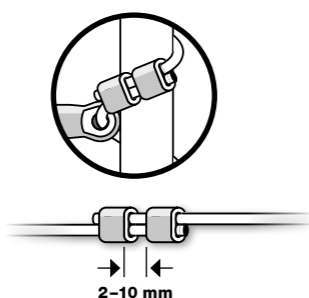


Nr. **30570-1500** 250 mm

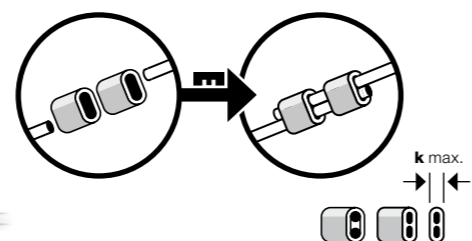
Ø 1,5 / 2 / 3 mm



Nr. **30570-2000** 300 mm



### Sleeve Webnet Duplex as connecting sleeve



Nr.	For perimeter rope		k max. mm
	Ø mm		
<b>30584-0151-20</b>	<b>1,5</b>	2,4	
<b>30584-0201-20</b>	<b>2</b>	3,2	
<b>30584-0301</b>	<b>3</b>	4,5	

### Webnet swaging tool type 1

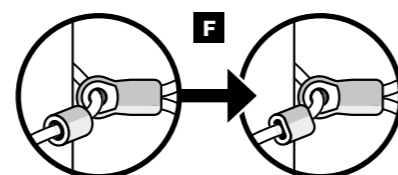
Ø 1,5 / 2 mm



Nr. **30570-1500** 250 mm



### Sleeve Webnet Duplex as a stop sleeve



Nr.	For perimeter rope	
	Ø mm	
<b>30584-0101</b>	<b>1,5 / 2</b>	
<b>30584-0151-10</b>	<b>3</b>	

### Circular wire strand rope Duplex

Ø 3 mm



Webnet rope	Circular wire strand rope Duplex	
Ø mm	Nr.	Ø mm
<b>3</b>	<b>10830-0301</b>	<b>3</b>
<b>2</b>	<b>10820-0201</b>	<b>2</b>

### Sleeve Webnet Duplex

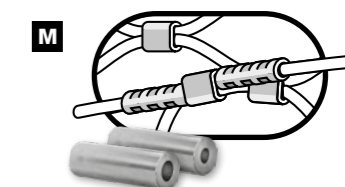
Ø 3 mm



Perimeter rope	Sleeve Webnet Duplex	
Ø mm	Nr.	Ø mm
<b>3</b>	<b>30584-0301</b>	<b>3</b>

### Connecting sleeve Webnet Duplex

Ø 3 mm



Perimeter rope	Connecting sleeve Webnet Duplex	
Ø mm	Nr.	Ø mm
<b>3</b>	<b>30584-0301-02</b>	<b>3</b>

### Webnet swaging tool type 2

Ø 3 mm

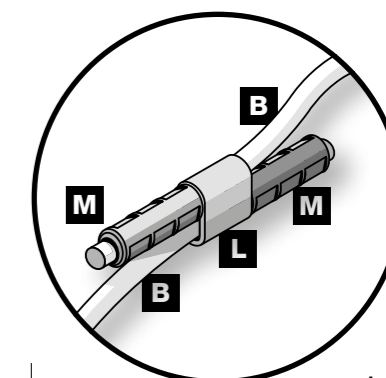
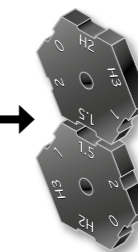


Nr. **30570-2001**

Replacement jaws

Nr. **30570-2001-01**

Insert marking



Lacing rope	
Ø mm	
<b>3</b>	
Number of swagepoints	
Insert marking	Nr.
<b>3 x</b>	<b>H3 - H3</b>

### Battery swaging tool EKM 6022 CFM

Ø 3 mm

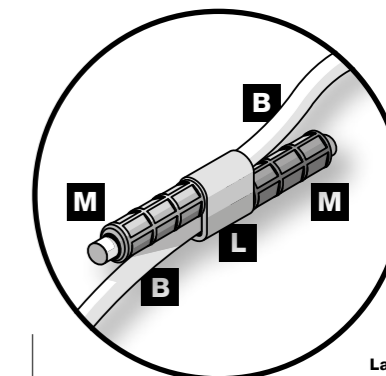
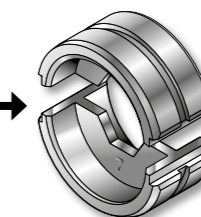


Nr. **30570-2003**

Jaws

Nr. **30575-0700-10**

Jaw no.



Lacing rope	
Ø mm	
<b>3</b>	
Number of swagepoints	
Jaws	Nr.
<b>3 x</b>	<b>7</b>