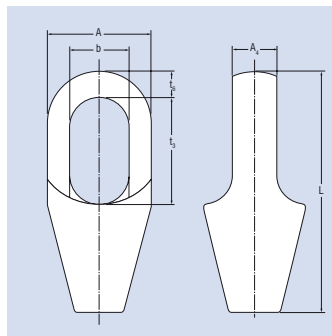
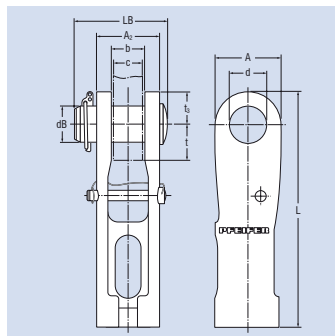
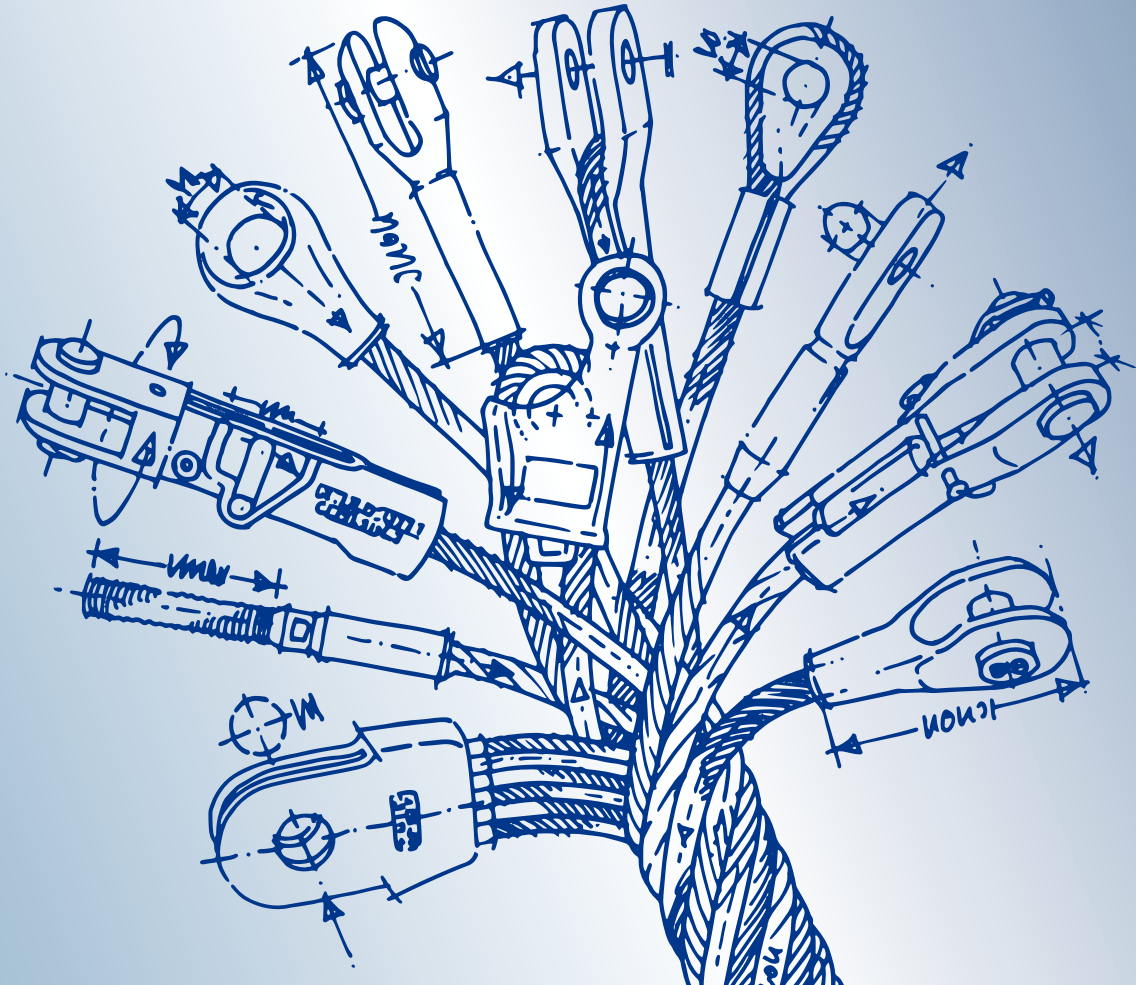




03/2018

Standard program – Rope end terminations

PFEIFER
SEIL- UND HEBETECHNIK
GMBH

DR.-KARL-LENZ-STRASSE 66
DE-87700 MEMMINGEN
PHONE +49 (0) 83 31-937-301
FAX +49 (0) 83 31-937-123
E-MAIL wirerope@pfeifer.de
INTERNET www.wirerope.info

Standard program – Rope end terminations

Moving means to set things in motion, to unfold dynamics, to create things. For us in the PFEIFER group, to move is very specific: it means that with our products from Wire Rope Technology, Rope and Lifting and Building Systems elevators, heavy loads on cranes, sheet metal coils, workpieces and precast concrete elements move. Our cable structure buildings are known all over the world, and so is our extensive knowledge on the dynamics of wire rope in all applications.

Moving also means for us that we don't sit still, we study, we learn, we apply and we invest. There is a reason why the PFEIFER group is one of Europe's leading companies in Structures, Wire Rope Technology, Rope and Lifting and Building Systems.

We get things going – special requests by customers, efficient and practical solutions, technical expertise, quality and dependable service – these are the benefits for you as a partner.



Gerhard Pfeifer,
President of the PFEIFER group



The PFEIFER group is one of Europe's leading companies in Structures, Wire Rope Technology, Rope and Lifting and Building Systems. The headquarters are located in Memmingen, Germany. Numerous service centres and subsidiaries worldwide are responsible for sales and distribution.

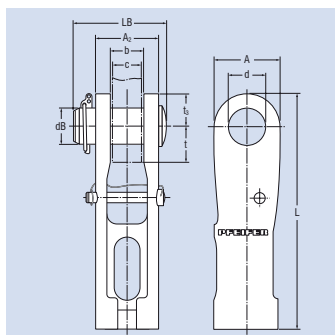
Content

PFEIFER Rope Application Technology stands for excellent knowledge on ropes and their requirements in the most diverse range of applications, an enormous range of ropes, fabrication options and tailor-made end terminations, as well as for excellent quality, availability, consultancy, service and accessories for the optimal use of ropes.

Through the right choose of ropes and end terminations in accordance with their operating conditions you achieve the most economic lifetime, reduce potential risks and avoid high downtime costs on the basis of premature rope failure.

Well-know manufacturers of cranes and building equipment, as well as fleet operators and users, trust in PFEIFER know-how. Rely on our years of experience!

Rope end terminations	
Tailor-made end terminations	4
Fabrication	6
Fittings	8
Thimbles	11
Sockets	18
Connecting links	23
Pouch socket systems	24
Clamps	29
Swivels	32
PFEIFER-Repair-Service for sockets	33
Correct handling of rope end terminations	34
Breaking force reduction caused by rope end terminations	35
Further products and services	
Rope accessories	36
Rope service and rope handling	37
Rope services	38

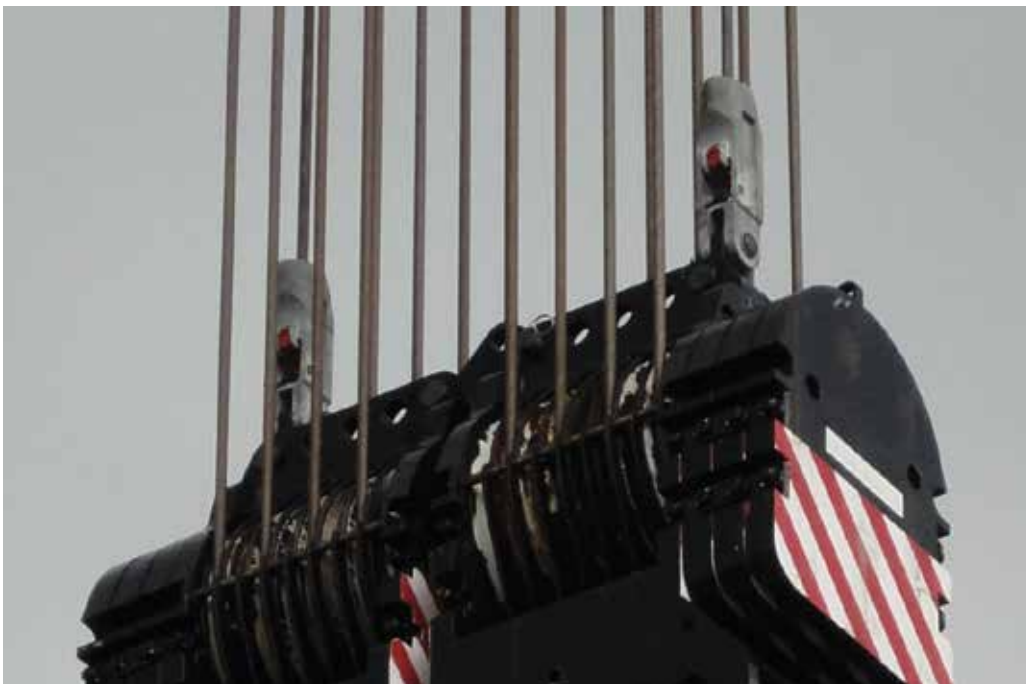


Rope end terminations

Tailor-made end terminations

Standard or tailor-made – through our own development and production every rope receives the optimal connection.





Rope end terminations

Fabrication

By over 430 years experience in wire rope handcraft.

We dominate all types of rope fabrication – from high-precision production of thinnest ropes for medical technology through precise cutting of length of crane hoist rope up to wire rope socketing of the thickest ropes – we fulfill your specifications!





Swaged fitting with thread

93A

Fittings

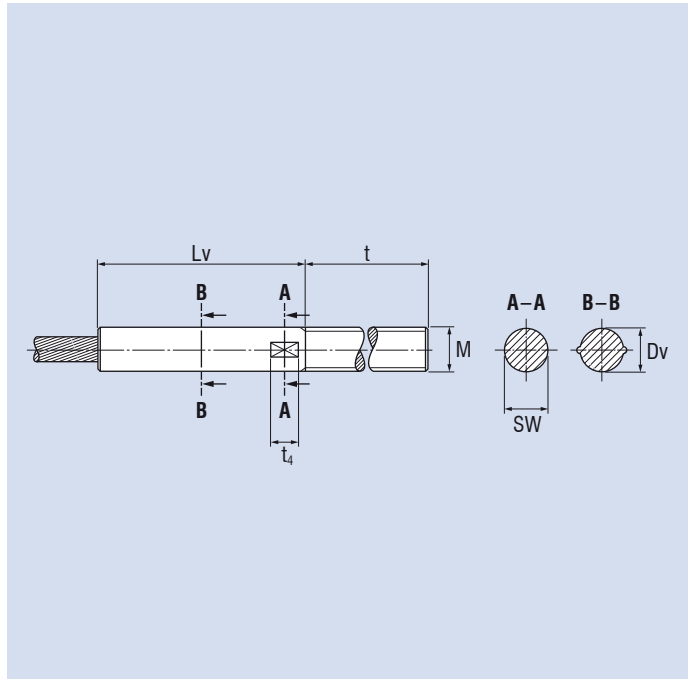


Technical data

Surface	Plain
Material thread	Steel
Surface thread	zinc-plated
Loss factor	0,9

Application area

Round strand ropes



Don't use non-rotation resistant and rotation resistant ropes with a turnable fixed point (e. g. swivel). The end termination has to be fixed against rotation as well. If this is not observed considerable damage, serious injury or death will occur.

Reference no.	NG	ds mm	M	Dv mm	Lv _{min} mm	Lv _{max} mm	SW mm	t ₄ mm	MBL kN
03 93A 012	12	12	M22	22	100	106	20	12	149,1
03 93A 013	13	13	M24	24	115	121	22	15	173,3
03 93A 014	14	14	M27	28	126	131	24	18	225,8
03 93A 015	15	15	M27	28	133	140	24	18	225,8
03 93A 016	16	16	M30	30	138	145	27	20	275,6
03 93A 017	17	17	M34	34	152	158	30	22	340,9
03 93A 018	18	18	M34	34	158	165	30	22	340,9
03 93A 019	19	19	M36	36	165	173	34	22	401,5
03 93A 020	20	20	M36	36	170	179	34	22	401,5
03 93A 022	22	21 – 22	M40	40	182	192	36	22	479,5
03 93A 024	24	23 – 24	M48	48	204	213	46	26	724
03 93A 026	26	25 – 26	M48	48	216	227	50	26	724
03 93A 028	28	27 – 28	M52	52	237	249	50	30	863,7
03 93A 030	30	29 – 30	M56	56	249	261	50	30	997,5
03 93A 032	32	31 – 32	M60	62	262	274	55	30	1160,5
03 93A 034	34	33 – 34	M60	62	274	289	55	30	1160,5
03 93A 036	36	35 – 36	M64	66	297	312	55	35	1314,8

thread length = variable

total length = variable

thread: right hand or left hand

Dimensions correspond to nominal sizes without tolerance and without coating. Please contact us for exact measurements!

Open swaged fitting

17A

Fittings



Technical data

Material Carbon steel (cold resistant to -20 °C)

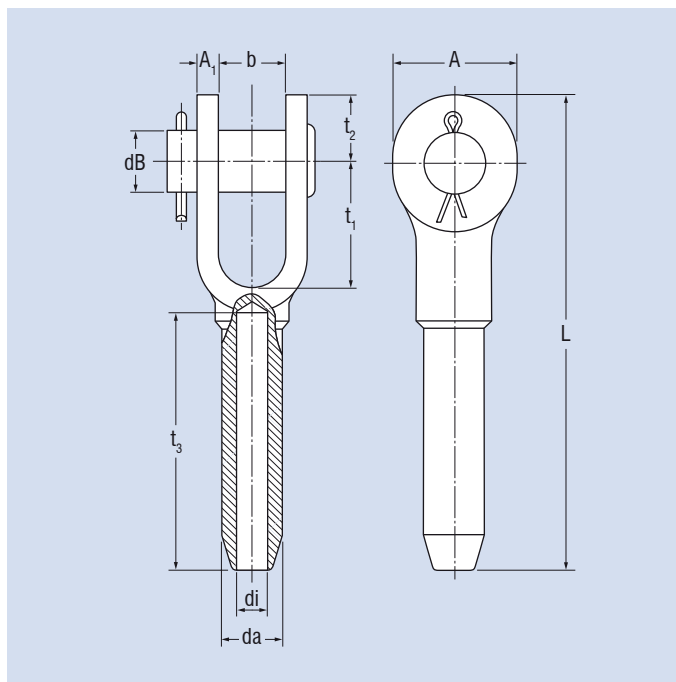
Surface Plain

Application area

Round strand ropes

Combination products

Closed swaged fitting 16A



Don't use non-rotation resistant and rotation resistant ropes with a turnable fixed point (e. g. swivel). The end termination has to be fixed against rotation as well. If this is not observed considerable damage, serious injury or death will occur.

Reference no.	NG	ds	A	A ₁	b	da	dB	di	L	t ₁	t ₂	t ₃	Weight
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
216002	6	6	35	8	17	12,7	17,5	6,85	121	38	19	54	0,25
216003	8	7 – 8	41	10	21	19,6	20,6	8,65	159	44	24	54	0,5
216004	10	9 – 10	41	10	21	19,6	20,6	10,4	159	44	24	81	0,5
216005	11	11	51	13	25	24,9	25,4	12,2	198	51	29	108	1,1
216006	13	12 – 13	51	13	25	24,9	25,4	14	198	51	29	108	1,1
216007	14	14	63	16	32	31,8	30,2	15,5	243	57	37	135	2,1
216008	16	15 – 16	63	16	32	31,8	30,2	17	243	57	37	135	2,1
216009	19	17 – 19	76	19	38	39,4	35,1	20,3	297	70	43	162	3,6
216010	22	20 – 22	86	23	44	43,2	41,1	23,9	346	83	51	189	5,3
216011	25	23 – 25	102	26	51	50,5	51	26,9	397	95	57	216	8,1
216012	29	26 – 29	114	30	57	57	57	30,2	444	108	63	243	13,5
216013	32	30 – 32	127	30	63	64,5	63,5	33,8	494	121	75	270	16,4
216014	35	33 – 35	133	33	63	71	63,5	36,8	540	133	80	297	21,4
216015	38	36 – 38	146	37	76	78	70	40,1	591	146	89	324	29,5
216016	44	42 – 44	178	43	89	86	89	47,2	689	171	105	378	42,2

Pressed diameter on request

Dimensions correspond to nominal sizes without tolerance and without coating. Please contact us for exact measurements!

Closed swaged fitting

16A

Fittings

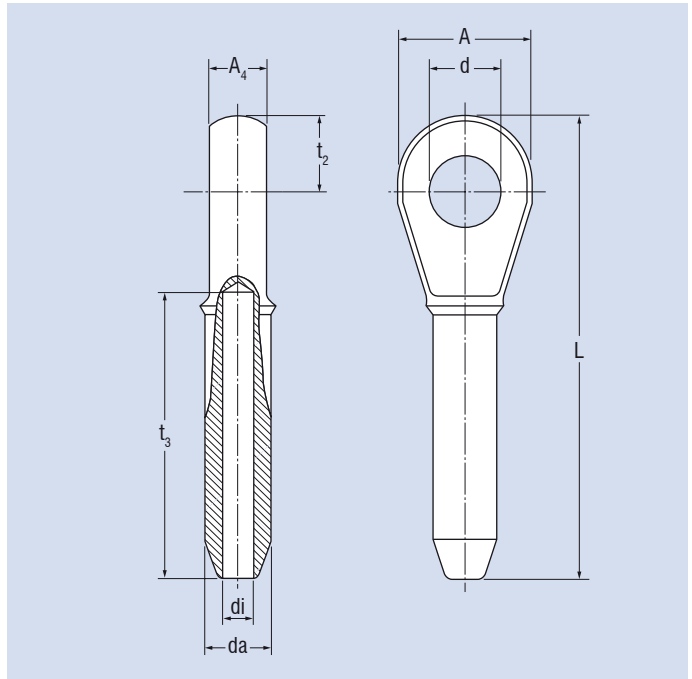


Technical data

Material	Carbon steel (cold resistant to -20 °C)
Surface	Plain

Application area

Round strand ropes



Don't use non-rotation resistant and rotation resistant ropes with a turnable fixed point (e. g. swivel). The end termination has to be fixed against rotation as well. If this is not observed considerable damage, serious injury or death will occur.

Reference no.	NG	ds mm	A mm	A ₄ mm	da mm	d mm	di mm	L mm	t ₂ mm	t ₃ mm	Weight kg
216025	8	7 – 8	43	17	19,6	22,4	8,65	140	26	81	0,36
216026	10	9 – 10	43	17	19,6	22,4	10,4	140	26	81	0,35
216027	11	11	51	22	24,9	26,9	12,2	176	30	108	0,7
213126	13	12 – 13	51	22	24,9	26,9	14	176	30	108	0,7
216029	14	14	63	29	31,8	31,8	15,5	222	38	135	1,3
216030	16	15 – 16	63	29	31,8	31,8	17	222	38	135	1,3
216031	19	17 – 19	76	33	39,4	36,6	20,3	264	45	162	2,3
216032	22	20 – 22	89	38	43,2	42,9	23,9	308	51	189	3,4
216033	25	23 – 25	102	44	50,5	52,5	26,9	349	57	216	5,1
216034	29	26 – 29	114	51	57	58,5	30,2	387	63	243	7,2
216035	32	30 – 32	127	57	64,5	65	33,8	438	73	270	10,5
216036	35	33 – 35	133	57	71	65	36,8	479	79	297	14,1
216037	38	36 – 38	140	63	78	71,5	40,1	518	86	324	17,7
216038	44	42 – 44	171	76	86	90,5	47,2	610	102	378	23,6

Pressed diameter on request

Dimensions correspond to nominal sizes without tolerance and without coating. Please contact us for exact measurements!

Solid thimble PSH 519

Thimbles



Technical data

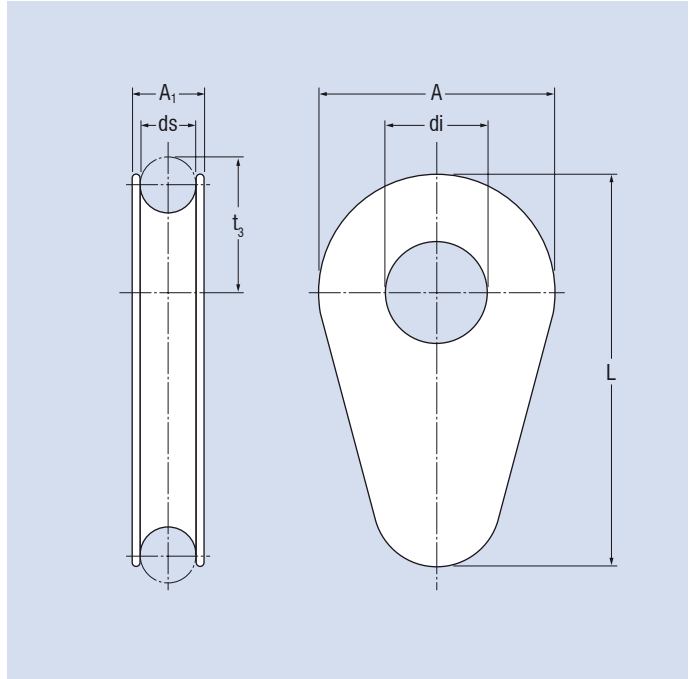
Material	Cast steel (cold resistant to -40 °C)
Surface	painted

Application area

Round strand rope pressed acc. to EN 13411-3

Combination products

Pin 518 P
Swaged fork thimble PSH 518
Ferrule acc. to EN 13411-3 510
Safety spring 518 S



Don't use non-rotation resistant and rotation resistant ropes with a turnable fixed point (e. g. swivel). The end termination has to be fixed against rotation as well. If this is not observed considerable damage, serious injury or death will occur.

Reference no.	NG	ds mm	A mm	A ₁ mm	A ₁ Tol mm	di mm	di Tol mm	L mm	t ₃ mm	WLL kN	Weight kg
149743	16	14 – 16	65	23	-2	29	+1,5	105	41	95	0,53
221033	19	17 – 19	77	30	-2	36	+1,5	129	49	135	1,21
111286	22	20 – 22	88	29	-2	41	+1,5	151	56	180	1,32
111289	27	23 – 27	104	36	-2 / +1	51	+1,5	186	70	270	2,17
111293	31	28 – 31	118	40	-2 / +1	57	+1,5	205	79	350	2,88
111298	36	32 – 36	132	44	-2 / +1	62	+1,5	227	88	475	3,86
111303	42	37 – 42	168	52	±2	67	+1,5	260	112	620	7,28
159823	49	43 – 49	186	60	±2	72	+1,5	296	118	795	11,14
111306	60	50 – 60	222	70	±2	72	+1,5	352	132	1200	16,66
221046	68	61 – 68	252	80	±2	82	+1,5	407	152	1650	24,3

WLL = maximum payload

Safety factor = 3,0

Dimensions correspond to nominal sizes without tolerance and without coating. Please contact us for exact measurements!

Swaged fork thimble PSH 518

Thimbles



Technical data

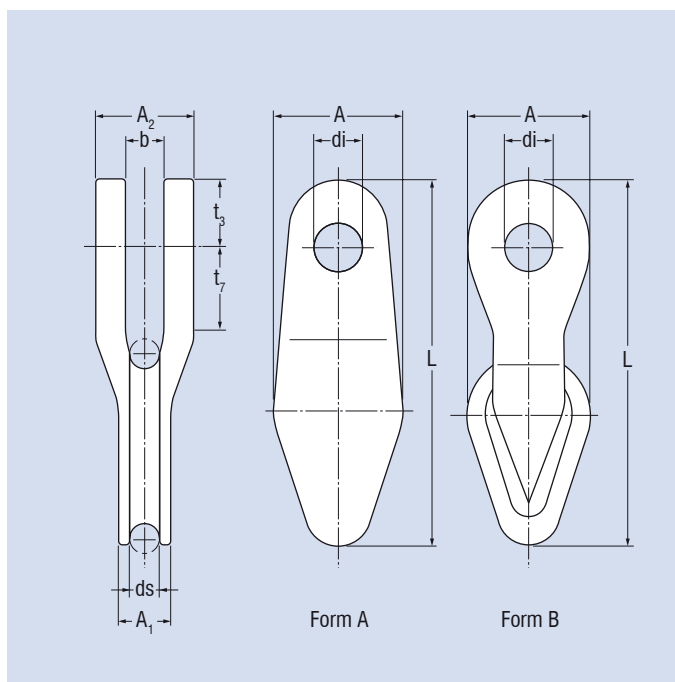
Material Cast steel (cold resistant to -40°C)
Surface painted or galvanised

Application area

Round strand rope pressed acc. to EN 13411-3

Combination products

Solid thimble PSH 519
Pin 518 P
Ferrule acc. to EN 13411-3 510
Safety spring 518 S



Don't use non-rotation resistant and rotation resistant ropes with a turnable fixed point (e. g. swivel). The end termination has to be fixed against rotation as well. If this is not observed considerable damage, serious injury or death will occur.

Reference no.	NG	ds	A	A ₁	A ₁ Tol	A ₂	b	b Tol	di	di Tol	L	t ₃	t ₇	WLL	Weight
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg
111243	16	14 – 16	74	28	+5	58	24	+1	29	+1,5	210	39	50	95	2,5
111248	19	17 – 19	84	32	+5	64	31	+1	36	+1,5	251	44	55	135	3,52
111253	22	20 – 22	92	36	+5	82	32	+1	41	+1,5	282	56	60	180	6,08
199269	27	23 – 27	108	42	+6	91	38	+2	51	+1,5	330	60	80	270	9,64
201710	31	28 – 31	124	48	+7	104	42	+3	57	+1,5	386	73	100	350	13,7
111263	36	32 – 36	138	52	+7	117	46	+3	62	+1,5	432	79	110	475	19,71
111266	42	37 – 42	151	54	+7	105	55	+3	67	+1,5	524	105	130	620	22,42
230205	49	43 – 49	190	60	+7	115	65	+3	72	+1,5	582	111	145	795	27,1
111270	60	50 – 60	222	73	+7	135	75	+3	72	+1,5	681	140	160	1200	40
111274	68	61 – 68	262	80	+7	145	85	+3	82	+1,5	833	170	220	1650	67

WLL = maximum payload

Safety factor = 3,0

NG 14 to 36: Form A, NG 37-68: Form B

Dimensions correspond to nominal sizes without tolerance and without coating. Please contact us for exact measurements!

Solid thimble DIN 3091 527

Thimbles

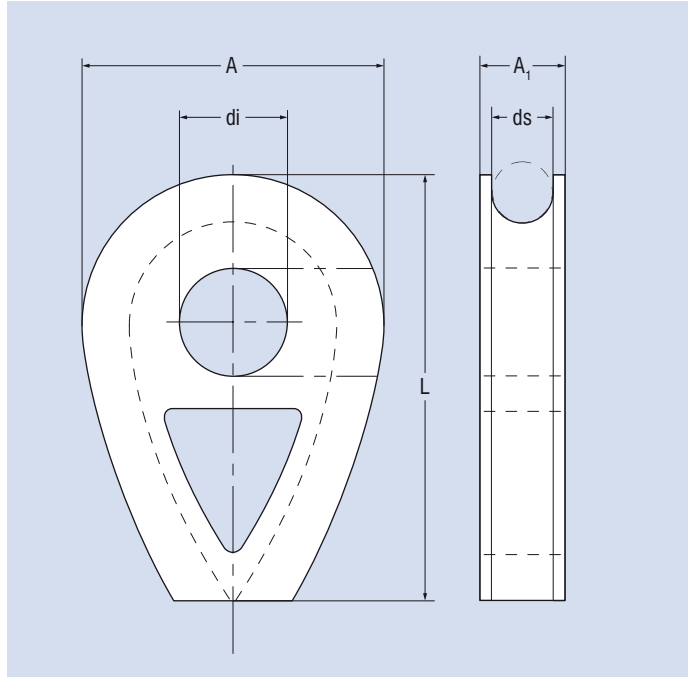


Technical data

Material	Cast Steel
Surface	Plain

Application area

Round strand rope pressed acc. to EN 13411-3



Don't use non-rotation resistant and rotation resistant ropes with a turnable fixed point (e. g. swivel). The end termination has to be fixed against rotation as well. If this is not observed considerable damage, serious injury or death will occur.

Reference no.	NG	ds mm	A mm	A ₁ mm	di mm	di Tol mm	L mm	Weight kg
111409	8	8	40	15	14	+6	66	0,2
111412	10	10	50	17,5	18	+7	82	0,3
111419	12	12	60	20	21	+9	98	0,5
111424	14	14	70	23,5	25	+10	114	0,7
111426	16	16	80	26	28	+12	130	0,8
111434	18	18	90	28,5	31	+14	145	1,1
111440	20	20	100	31	35	+15	161	1,4
111445	22	22	110	33,5	38	+17	177	1,8
111451	24	24	120	36	41	+19	193	2,3
111456	26	26	130	39,5	44	+21	209	3
111460	28	28	140	42	47	+23	224	3,7
111467	32	32	160	47	53	+27	256	5,3
111474	36	36	180	53	59	+31	288	7,5
111483	40	40	200	58	65	+35	320	10,4

WLL = maximum payload

Safety factor = 3,0

ds: maximum rope diameter

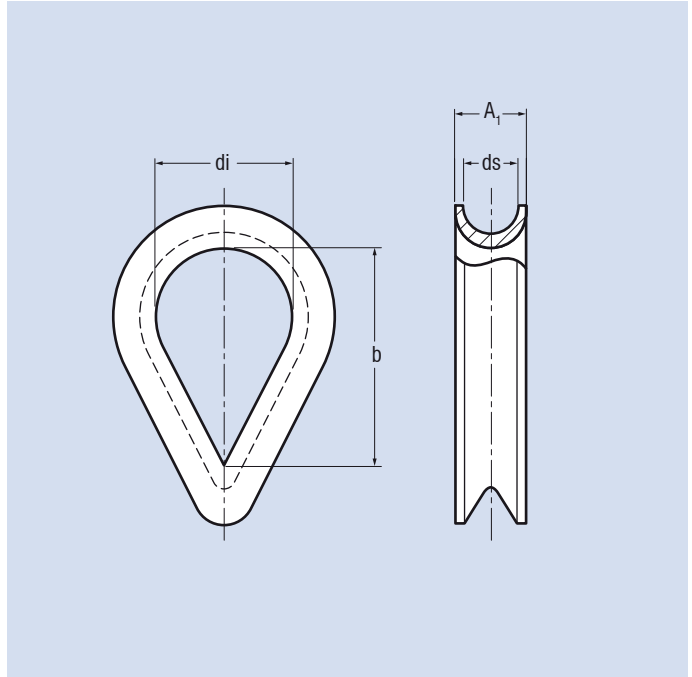
Dimensions correspond to nominal sizes without tolerance and without coating. Please contact us for exact measurements!

Thimble similar to DIN 6899 521



Technical data

Material	Steel
Surface	zinc-plated



Don't use non-rotation resistant and rotation resistant ropes with a turnable fixed point (e. g. swivel). The end termination has to be fixed against rotation as well. If this is not observed considerable damage, serious injury or death will occur.

Reference no.	NG	ds mm	A ₁ mm	b mm	di mm	Weight kg
111324	4	3 – 3,5	6,5	21	13	0,01
111326	6	4,5 – 5	7,5	25	16	0,02
111328	8	6,5 – 7	10	32	20	0,03
111329	10	8 – 9	12,5	38	24	0,05
111330	12	10 – 11	15	45	28	0,07
111331	12	11 – 12	15	45	28	0,08
111332	14	12 – 13	17,5	51	32	0,1
111333	16	14 – 15	20	58	36	0,14
111334	18	16 – 17	22	64	40	0,19
111335	20	18 – 18	24,5	72	45	0,29
111336	22	19 – 20	27	80	50	0,55
111337	24	21 – 22	30	90	56	0,5
111338	26	23 – 24	33	99	62	0,59
111339	28	25 – 26	35	112	70	0,82
111340	30	27 – 28	37	120	75	1
111341	32	29 – 30	39	128	80	1,3
111342	34	31 – 32	41	152	95	1,6
111343	36	33 – 34	43	160	100	1,7
111345	38	35 – 36	45	176	110	1,62

Dimensions correspond to nominal sizes without tolerance and without coating. Please contact us for exact measurements!

Thimble acc. to DIN 3090 526

Thimbles

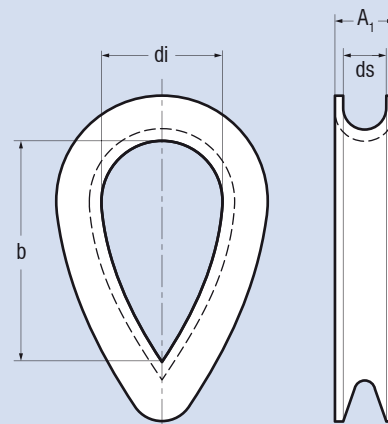


Technical data

Material	Cast Steel
Surface	zinc-plated

Application area

Round strand rope pressed acc. to EN 13411-3



Don't use non-rotation resistant and rotation resistant ropes with a turnable fixed point (e. g. swivel). The end termination has to be fixed against rotation as well. If this is not observed considerable damage, serious injury or death will occur.

Reference no.	NG	ds mm	A ₁ mm	A ₁ Tol mm	b mm	di mm	Weight kg
111388	4	4	8	±0,5	20	10	0,01
111389	6	6	10	±0,5	30	15	0,03
111390	8	8	13	±0,6	40	20	0,08
111391	10	10	15	±0,6	50	25	0,16
111392	12	12	19	±0,6	60	30	0,24
111393	14	14	22	±1	70	35	0,34
111394	16	16	25	±1	80	40	0,48
111395	18	18	27	±1	90	45	0,65
111396	20	20	30	±1,5	100	50	0,95
111397	22	22	33	±1,5	110	55	1,08
111398	24	24	35	±1,5	120	60	1,32
111399	26	26	45	±1,5	130	65	2,18
111400	28	28	48	±2	140	70	2,6
111401	32	32	50	±2	160	80	3,71
111402	36	36	55	±2	180	90	4,35

WLL = maximum payload

Safety factor = 3,0

Dimensions correspond to nominal sizes without tolerance and without coating. Please contact us for exact measurements!

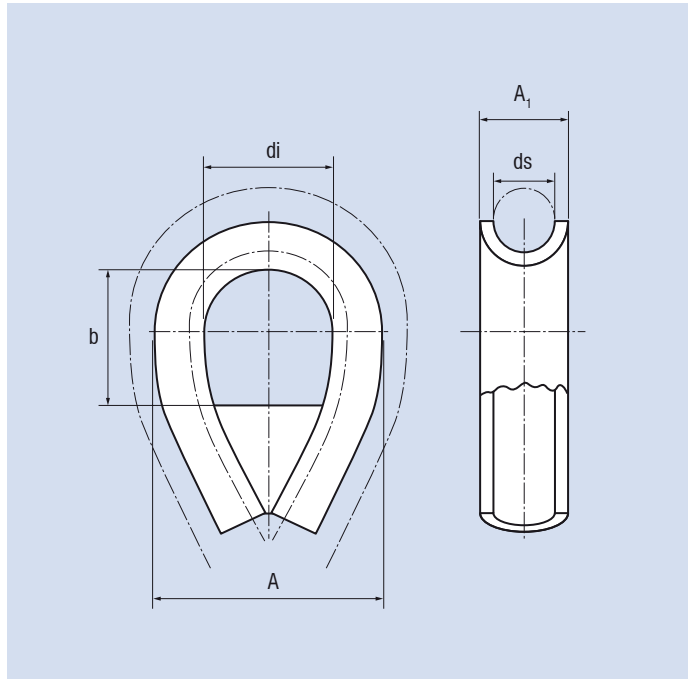
Heavy duty thimbles

Thimbles



Technical data

Surface painted, galvanized or bare



Don't use non-rotation resistant and rotation resistant ropes with a turnable fixed point (e. g. swivel). The end termination has to be fixed against rotation as well. If this is not observed considerable damage, serious injury or death will occur.

Reference no.	ds mm	A mm	A ₁ mm	b mm	di mm	Weight kg
211010	40	160	65	120	90	5,1
211009	35	150	55	100	80	3,2
211011	50	200	80	125	110	9,2
211012	62	250	100	160	140	17,4
211013	72	265	115	175	160	19,4
211014	85	300	125	245	190	29
211015	100	370	150	290	200	39
211016	115	380	165	300	210	52

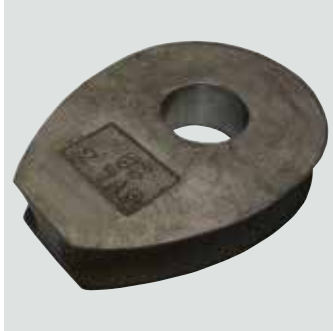
with welded-in cross-piece

Dimensions correspond to nominal sizes without tolerance and without coating. Please contact us for exact measurements!

Solid thimble according to JIS B 2802

27A

Thimbles

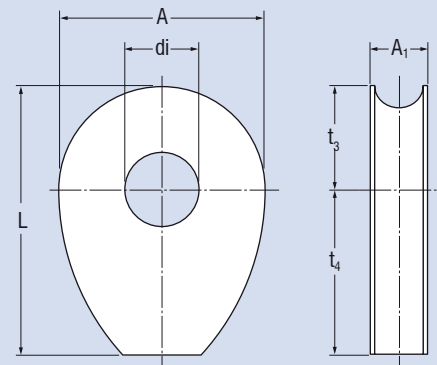


Technical data

Material	Cast steel (cold resistant to -40 °C)
Surface	Hot-dip galvanized

Application area

Round strand rope pressed acc. to EN 13411-3



Don't use non-rotation resistant and rotation resistant ropes with a turnable fixed point (e. g. swivel). The end termination has to be fixed against rotation as well. If this is not observed considerable damage, serious injury or death will occur.

Reference no.	NG	ds mm	A mm	A ₁ mm	di mm	L mm	t ₃ mm	t ₄ mm	Weight kg
204531	24	20	105	29	42	136	52,5	83,5	1,67
204532	26	22	110	31	42	144	55	89	2,06
204533	28	24	120	33	50	156	60	96	2,46
204534	30	26	130	35	50	166	65	101	3,06
204535	32	28	140	38	50	180	70	110	3,92
204536	34	30 – 31,5	145	40	55	186	72,5	113,5	4,51
204537	36	32 – 33,5	150	42	55	196	75	121	5,23
204538	45	35 – 40	190	52	75	242	95	147	9,55

Dimensions correspond to nominal sizes without tolerance and without coating. Please contact us for exact measurements!

Open Spelter Socket PSH 802 SBV

Sockets



Technical data

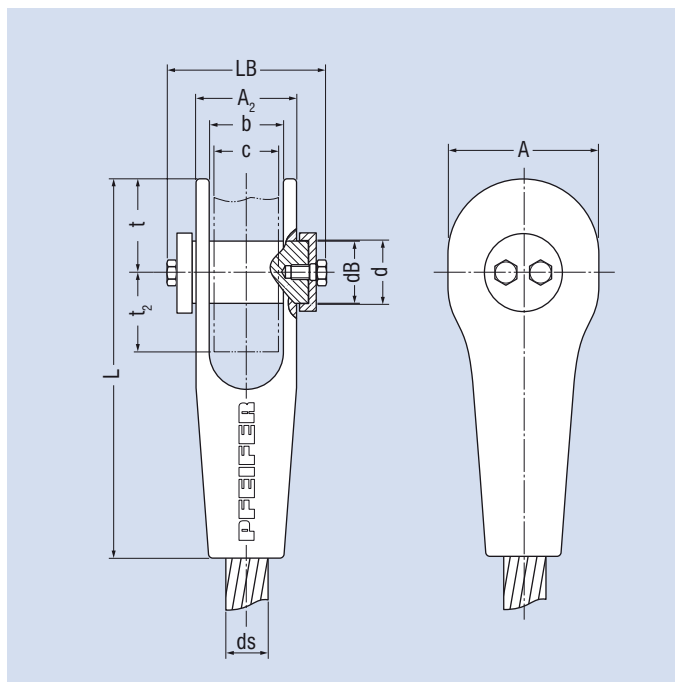
Material bolt	Quenched and tempered steel
Surface bolt	Plasma nitrided
Material housing	Cast steel (cold resistant to -40 °C)
Surface housing	Hot-dip galvanised
Surface locking washer	Hot-dip galvanised
Cast	Zamak 610

Application area

Spiral strand cables
Fully locked coil ropes
Alternative: Strand ropes

Technical Approval

Design technical approved according civil engineering codes – PFEIFER tension member



Don't use non-rotation resistant and rotation resistant ropes with a turnable fixed point (e. g. swivel). The end termination has to be fixed against rotation as well. If this is not observed considerable damage, serious injury or death will occur.

Reference no.	NG	ds	A	A ₂	b	d	dB	LB	L	t	t ₂	c max	MBL	Weight
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg
250369	20	16 – 21	90	60	44	42	41	106	225	55	48	42	405	2,9
240041	25	21 – 26	110	75	55	47	46	125	278	68	58	53	621	5
240045	30	26 – 31	135	90	66	57	56	150	338	83	72	64	916	9
240046	40	31 – 40	160	105	77	67	66	170	393	98	82	74	1520	15,2
241637	45	41 – 45	180	120	88	76	75	200	450	110	96	85	1930	23
241638	50	46 – 50	200	135	99	86	85	215	503	123	106	96	2380	31
241639	55	51 – 55	230	150	110	91	90	244	565	140	120	107	3020	44
241640	60	56 – 60	250	165	121	101	100	262	618	153	130	118	3590	58
240054	65	61 – 65	270	180	132	111	110	295	675	165	144	129	4220	76
240055	70	66 – 70	290	195	143	121	120	310	728	178	154	139	4890	95
241641	75	71 – 75	320	224	154	131	130	349	790	195	168	150	5620	149
241642	80	76 – 80	340	241	165	141	140	375	843	208	178	161	6390	183
241643	85	81 – 85	360	256	176	145	144	390	900	220	192	172	7210	215
241644	90	86 – 90	380	273	187	156	155	416	953	233	202	183	8090	262
241645	95	91 – 95	410	298	199	165	164	451	1040	260	231	194	9110	324
241646	100	96 – 100	430	305	209	175	174	469	1068	263	223	205	10100	369
240047	105	101 – 105	450	320	220	185	184	485	1125	275	240	216	11100	424
241956	110	106 – 110	480	341	227	190	189	516	1195	295	262	222	12200	527
240048	115	111 – 115	503	364	242	205	204	539	1252	317	264	237	13400	624
240052	120	116 – 120	530	386	256	210	209	562	1350	335	302	251	14500	745,5

MBL = minimum breaking load

Dimensions correspond to nominal sizes without tolerance and without coating. Please contact us for exact measurements!

Open spelter socket 381G

Sockets



Technical data

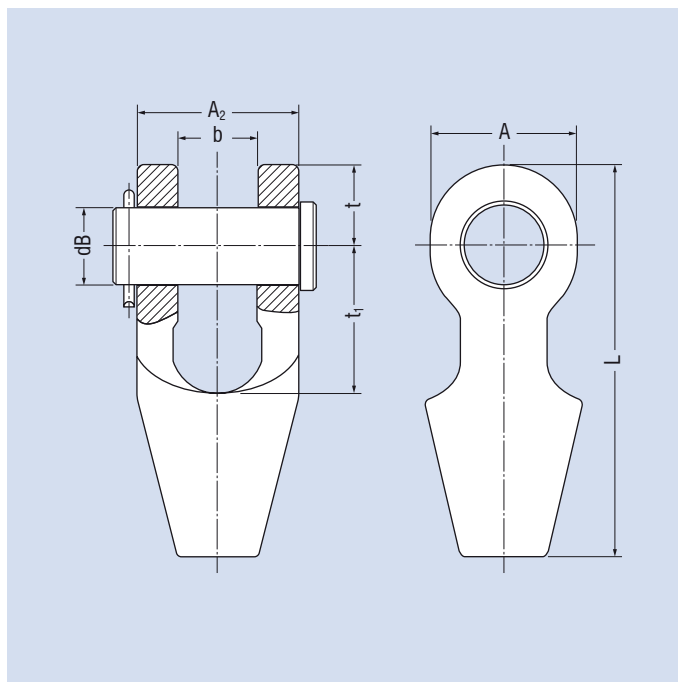
Material	Cast steel (cold resistant to -20 °C)
Surface bolt	zinc-plated
Surface housing	painted or galvanised
Nominal tensile strength	≤ 2160 N/mm ²

Application area

Round strand ropes

Combination products

Closed spelter socket 382G



Don't use non-rotation resistant and rotation resistant ropes with a turnable fixed point (e. g. swivel). The end termination has to be fixed against rotation as well. If this is not observed considerable damage, serious injury or death will occur.

NG	ds	A	A ₂	b	dB	L	t	t ₁	MBL
	mm	mm	mm	mm	mm	mm	mm	mm	kN
196	6 – 7	34	36	18	17,5	105	19	40	78,4
197	8 – 10	40	43	20,6	20,6	122	23	45	117,7
198	11 – 13	48	51	25,6	25,4	142	27	51	196,2
199	14 – 16	56	61	32	30	171	32	63	245,3
100	18 – 19	70	71	38	35	205	40	76	392,4
104	20 – 22	80	86	45	41	238	48	89	539,4
108	23 – 26	100	96	51	51	273	58	101	784,8
111	27 – 30	110	107	57	57	306	65	114	981
115	31 – 36	122	119	63	63	337	71	127	1275,3
118	37 – 39	140	136	76	70	394	80	162	1569,6
120	40 – 42	150	142	76	76	415	85	165	1962
125	43 – 48	170	167	89	89	467	98	178	2452,5
128	49 – 54	186	193	101	95	552	108	228	2943
130	55 – 60	210	219	113	108	603	120	254	3678,75
132	61 – 68	230	247	127	121	654	133	273	4414,5
135	69 – 75	240	279	133	127	696	138	279	4905
138	76 – 80	250	298	146	133	736	145	286	5886
140	81 – 86	275	317	159	140	790	160	300	6376,5
142	87 – 93	300	336	172	152	849	175	318	7357,5
144	94 – 102	336	369	191	178	922	198	343	8829

MBL = minimum breaking load

Dimensions correspond to nominal sizes without tolerance and without coating. Please contact us for exact measurements!

Closed spelter socket

382G

Sockets

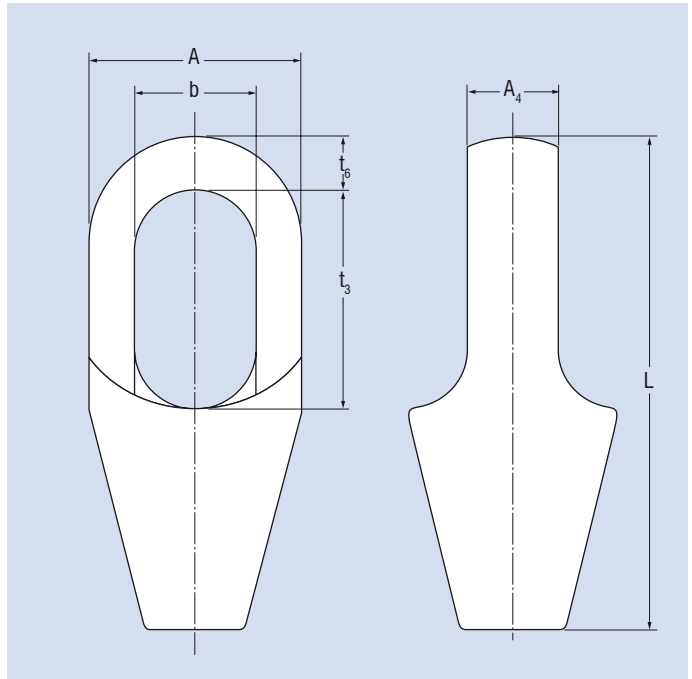


Technical data

Material	Cast steel (cold resistant to -20°C)
Surface	painted or galvanised
Nominal tensile strength	≤ 2160 N/mm²

Application area

Round strand ropes



Don't use non-rotation resistant and rotation resistant ropes with a turnable fixed point (e. g. swivel). The end termination has to be fixed against rotation as well. If this is not observed considerable damage, serious injury or death will occur.

NG	ds mm	A mm	A ₄ mm	b mm	L mm	t ₃ mm	t ₆ mm	MBL kN
296	6 – 7	38	14	22	102	45	11	78,4
297	8 – 10	44	17,5	24	120	52	14	117,7
298	11 – 13	53	23	30	140	59	17	196,2
299	14 – 16	64	26	26	162	65	21	245,3
200	18 – 19	75	32	32	194	78	27	392,4
201	20 – 22	90	38	38	224	90	33	539,6
204	23 – 26	101	45	45	253	103	36	784,8
207	27 – 30	114	51	51	282	116	39	981
212	31 – 36	127	57	57	312	130	43	1275,3
215	37 – 39	142	63	63	358	155	51	1569,6
217	40 – 42	150	70	70	390	171	54	1962
219	43 – 48	171	76	76	443	198	55	2452,5
222	49 – 54	193	82	82	502	224	62	2943
224	55 – 60	219	92	92	550	248	73	3678,75
226	61 – 68	241	102	102	597	270	79	4414,5
227	69 – 75	273	124	124	644	286	79	4905
228	76 – 80	292	133	133	689	298	86	5886
229	81 – 86	311	146	146	736	311	95	6376,5
230	87 – 93	330	159	159	788	330	102	7357,5
231	94 – 102	362	178	178	845	356	108	8829

MBL = minimum breaking load

Dimensions correspond to nominal sizes without tolerance and without coating. Please contact us for exact measurements!

Open Bridge Socket PSH 84A SBV

Sockets



Technical data

Material	Socket body	Mild Steel
	pin/threaded rod	Cold resistant to – 20 °C Quenched and tempered steel
Surface	Socket body	Hot-dip galvanised
	Pin	Plasma nitrided
	Threaded Bar	Electrogalvanized
Cast		Zamak 610

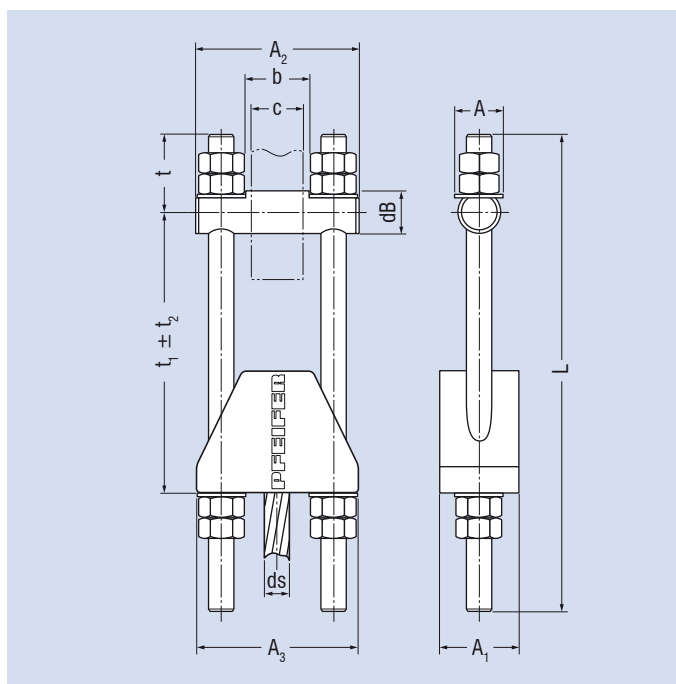
Application area

Spiral strand cables

Full locked cables

Alternative: Strand ropes

Design technical approved according civil engineering codes – PFEIFER tension member



Don't use non-rotation resistant and rotation resistant ropes with a turnable fixed point (e. g. swivel).
The end termination has to be fixed against rotation as well.
If this is not observed considerable damage, serious injury or death will occur.

item number	NG	ds mm	A mm	A ₁ mm	A ₂ mm	A ₃ mm	dB mm	L mm	b mm	t mm	t ₁ mm	t ₂ mm	c _{min} mm	m kg	MBL kN
0384A020	20	16 – 21	41	80	153	153	41	619	65	80	330	150	60	17	405
0384A025	25	21 – 26	50	90	185	185	46	694	75	96	375	150	70	30	621
0384A030	30	26 – 31	60	110	215	215	56	776	85	117	420	150	80	48	916
0384A040	40	31 – 40	72	130	249	249	66	888	95	138	495	150	90	92	1520
0384A045	45	41 – 45	85	150	300	300	75	971	120	159	540	150	110	126	1930
0384A050	50	46 – 50	98	160	336	336	85	1048	130	183	575	150	120	176	2380
0384A055	55	51 – 55	105	180	370	370	90	1217	150	196	670	200	140	224	3020
0384A060	60	56 – 60	110	200	390	390	100	1289	160	212	715	200	150	293	3590
0384A065	65	61 – 65	115	220	415	415	110	1361	175	228	760	200	165	388	4220
0384A070	70	66 – 70	125	240	440	440	120	1433	180	244	805	200	175	493	4890
0384A075	75	71 – 75	135	250	490	490	130	1510	210	265	845	200	205	573	5620
0384A080	80	76 – 80	145	260	530	530	140	1682	230	281	940	250	225	732	6390
0384A085	85	81 – 85	155	300	575	575	144	1756	255	299	980	250	250	862	7210
0384A090	90	86 – 90	160	320	600	600	155	1823	270	315	1020	250	265	1037	8090
0384A095	95	91 – 95	165	340	625	625	164	1903	285	330	1075	250	280	1309	9110
0384A100	100	96 – 100	175	350	650	650	174	1975	290	346	1120	250	285	1463	10100

MBL = minimum breaking load

Dimensions correspond to nominal sizes without tolerance and without coating. Please contact us for exact measurements!

Rope socket Nemag 57A



Technical data

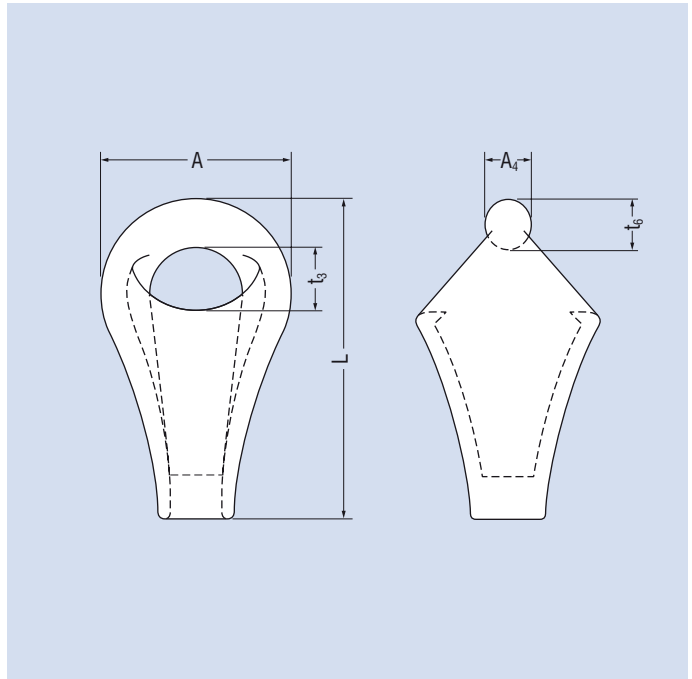
Material	Cast steel (cold resistant to -20 °C)
Surface	Plain
Nominal tensile strength	≤ 2160 N/mm ²

Application area

Round strand ropes

Combination products

Quick connecting link Nemag 548



Don't use non-rotation resistant and rotation resistant ropes with a turnable fixed point (e. g. swivel). The end termination has to be fixed against rotation as well. If this is not observed considerable damage, serious injury or death will occur.

Reference no.	NG	ds mm	A mm	A ₄ mm	L mm	t ₃ mm	t ₆ mm	MBL kN	WLL kg	Weight kg
214697	2	12 – 13	56	13,5	95	22	15,5	14	2000	0,5
214698	3	14 – 15	64	15,5	109	24	17,5	17,5	2500	0,6
235701	5	18 – 19	84	19	135	30	21	27,5	4500	1,3
235702	6	20 – 21	84	21	152	33	23	35	5000	1,7
214699	7	22 – 24	100	23	166	37	26	42,5	7000	2,3
199006	8	25 – 27	100	25	186	39	28	52,5	8000	3,2
214700	9	28 – 30	120	27	202	40	31	70	11000	4,1
235711	10	31 – 33	120	28,5	222	45	32	85	13000	5,2
178084	11	34 – 36	142	31,5	239	50	36	95	15000	6,4
166045	12	37 – 39	142	34,5	264	51	39	110	17000	7,9
171867	13	40 – 42	166	36,5	285	59	43	125	21000	9,5
171015	14	43 – 45	166	40	312	62	47	155	26000	11,2
167178	15	46 – 48	170	44	337	66	51	180	30000	13

The working load is the recommended maximum load for grabbing operations when Quick Release Links and Rope Pear Sockets are passing over a special cable sheave. For other applications a safety factor in line with official international and national guidelines has to be adhered to.

Dimensions correspond to nominal sizes without tolerance and without coating. Please contact us for exact measurements!

Quick connecting link Nemag 548

Connecting links



Technical data

Material	Cast steel (cold resistant to -20 °C)
Nominal tensile strength	≤ 2160 N/mm ²

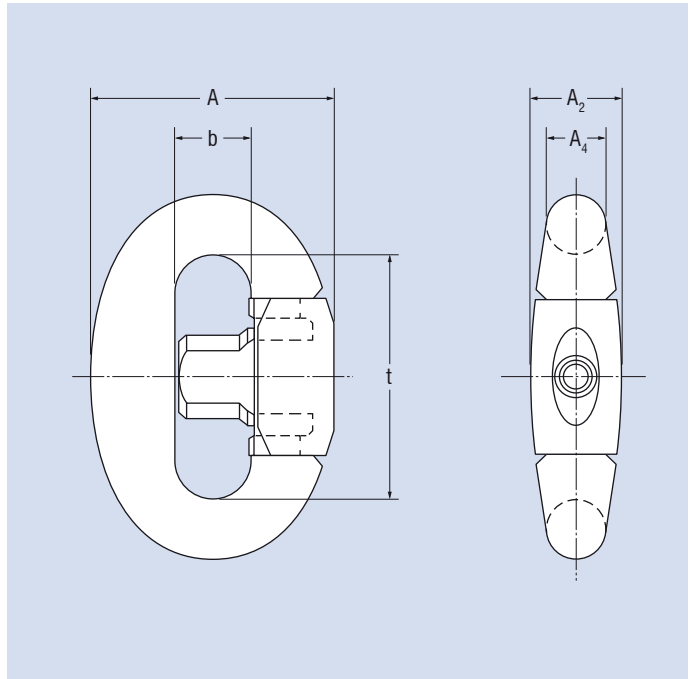
Application area

Round strand ropes

Combination products

Rope socket Nemag 58A

Rope socket Nemag 57A



Don't use non-rotation resistant and rotation resistant ropes with a turnable fixed point (e. g. swivel). The end termination has to be fixed against rotation as well. If this is not observed considerable damage, serious injury or death will occur.

item number	NG	A mm	A ₂ mm	A ₄ mm	b mm	t mm	MBL kN	WLL kg	Weight kg
0354804	4	76	30	19	24,5	76	25000	3000	0,9
0354805	5	84	32,5	21	27	84	33000	4500	1,2
0354806	6	92	35	23	29,5	92	37500	5000	1,5
0354807	7	100	38	25	32	100	49000	7000	2
0354808	8	108	40,5	27	34,5	108	54000	8000	2,5
0354809	9	116	43,5	29	37	116	60000	9500	3,1
0354810	10	128	48	32	40,5	128	75000	12000	4,4
0354811	11	140	53	35	44	140	95000	15000	5,7
0354812	12	152	57	38	47,5	152	110000	17000	7,2
0354813	13	164	61,5	41	51	164	135000	21000	8,7
0354814	14	176	66	44	54	173	160000	26000	11
0354815	15	188	70,5	47	58	188	175000	30000	13,5
0354817	17	222	84	56	68	222	260000	42500	23

Dimensions correspond to nominal sizes without tolerance and without coating. Please contact us for exact measurements!

Pouch Socket PSH 22A

Pouch socket systems



Technical data

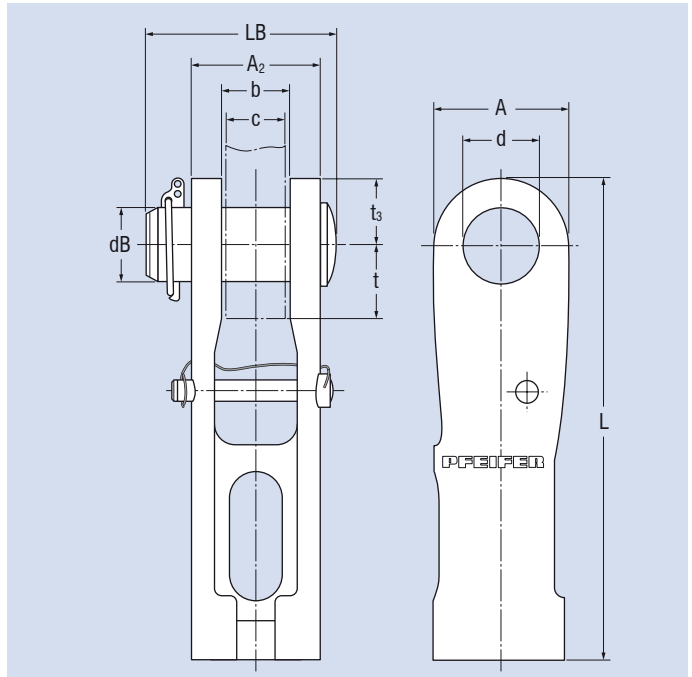
Material bolt	Quenched and tempered steel
Surface bolt	Plasma nitrided
Material housing	Cast steel (cold resistant to -40 °C)
Surface housing	Hot-dip galvanised or painted
Surface hinged safety pin	zinc-plated

Application area

Round strand ropes

Combination products

Swivel PSH 42A
Swivel 96A
Swaged sleeve rotary locked PSH 12A
Resin Socket PSH 13A
Resin Socket rotary locked PSH 14A
Swaged Sleeve PSH 11A



Don't use non-rotation resistant and rotation resistant ropes with a turnable fixed point (e. g. swivel). The end termination has to be fixed against rotation as well. If this is not observed considerable damage, serious injury or death will occur.

Reference no.	NG	ds	A	A ₂	b	d	dB	LB	L	t _{max}	t ₃	c max	WLL	Weight
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg
237744	16	14 – 16	58	60	32	31,5	30	97,75	246,5	57,5	29	31	85	2,81
237745	19	17 – 19	70	72	38	36,5	35	114,75	285,5	62,5	35	37	120	4,68
237746	22	20 – 22	80	83	45	42,5	41	128,75	310,5	67,5	40	44	160	4,68
237747	26	23 – 26	95	95	51	51,5	50	148,75	357	72,5	47,5	50	220	10,84
237748	29	27 – 29	107	107	57	58,5	57	163,75	398	77,5	53,5	56	275	15,55
237749	32	30 – 32	120	120	63	65	63,5	179,75	436,5	82,5	58,82	62	335	21,81
237750	36	33 – 36	134	134	70	75	73,5	202,25	487	90	67	69	425	29,74
237751	40	37 – 40	150	150	77	82,5	81	221,75	543	100	75	75	520	42,29
237752	44	41 – 44	165	165	85	86,5	85	241,75	545,5	110	82,5	83	630	55,93
237753	48	45 – 48	180	180	94	91,5	90	262,25	659	120	90	92	755	71,39
237754	52	49 – 52	196	196	104	96,5	95	281,75	710	130	98	102	885	90,09
273711	56	53 – 56	213	213	115	101,5	100	304	771,5	140	106,5	112	1025	116,6
272359	60	57 – 60	233	233	127	106,5	105	314	828,5	150	116,5	124	1180	150

Please note that these are castings with tolerances. Detailed measurements on request!

Dimensions correspond to nominal sizes without tolerance and without coating. Please contact us for exact measurements!

Swaged Sleeve PSH

11A

Pouch socket systems



Technical data

Material	Stainless steel (rustproof, cold resistant to -45°C)
Surface	Plain
Nominal tensile strength	≤ 2160 N/mm ²
Loss factor	0,9

Fill factor range

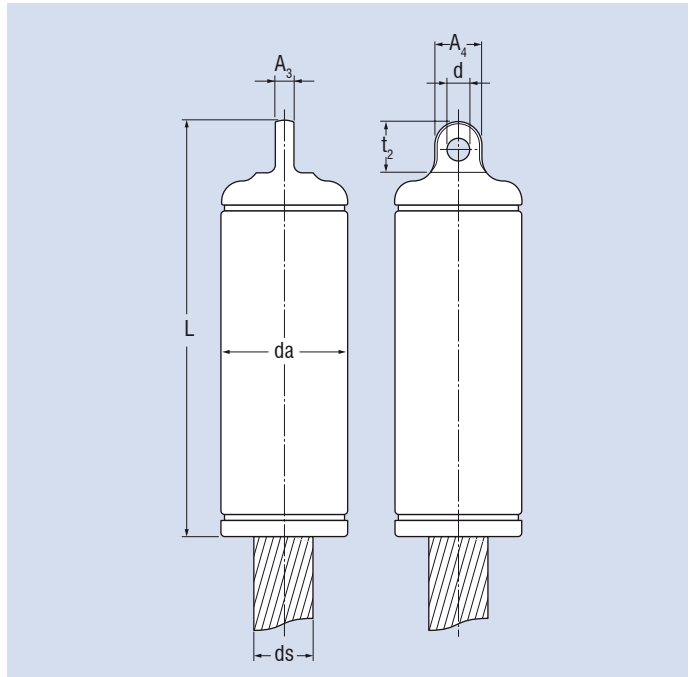
Fill factor f	0,64...0,78
---------------	-------------

Application area

High performance rotation-resistant ropes

Combination products

Pouch Socket PSH 22A



Don't use non-rotation resistant and rotation resistant ropes with a turnable fixed point (e. g. swivel). The end termination has to be fixed against rotation as well. If this is not observed considerable damage, serious injury or death will occur.

Reference no.	NG	ds	A ₃	A ₄	da	da Tol	d	L	L Tol	t ₂	Weight
		mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
214369	16	14	10	24	36	+0,4	12	116	+2	24	0,66
214372	16	15	10	24	36	+0,4	12	116	+2	24	0,6
214286	16	16	10	24	36	+0,4	12	116	+2	24	0,5
214374	19	17	10	24	44	+0,4	12	135	+2	24	1,2
214377	19	18	10	24	44	+0,4	12	135	+2	24	1,1
214386	19	19	10	24	44	+0,4	12	135	+2	24	1
214388	22	20	10	24	48	+0,4	12	154	+3	26	1,6
214398	22	21	10	24	48	+0,4	12	154	+3	26	1,5
214400	22	22	10	24	48	+0,4	12	154	+3	26	1,4
214409	26	23	10	24	56	+0,6	12	181	+4	26	2,6
214408	26	24	10	24	56	+0,6	12	181	+4	26	2,6
214405	26	25	10	24	56	+0,6	12	181	+4	26	2,5
214148	26	26	10	24	56	+0,6	12	181	+4	26	2,5
214410	29	27	10	24	62	+0,6	12	202	+4	28	3,6
214128	29	28	10	24	62	+0,6	12	202	+4	28	3,4
213983	29	29	10	24	62	+0,6	12	202	+4	28	3,2
214417	32	30	10	24	68	+0,6	12	220	+4	28	4,9
214413	32	31	10	24	68	+0,6	12	220	+4	28	4,7
212709	32	32	10	24	68	+0,6	12	220	+4	28	4,5
214421	36	33	10	24	78	+0,8	12	252	+4	28	7,7
214420	36	34	10	24	78	+0,8	12	252	+4	28	7,4
214419	36	35	10	24	78	+0,8	12	252	+4	28	7,1
213984	36	36	10	24	78	+0,8	12	252	+4	28	6,8
229694	40	37	16	40	86	+0,8	20	280	+5	40	9,3
229695	40	38	16	40	86	+0,8	20	280	+5	40	9
229696	40	39	16	40	86	+0,8	20	280	+5	40	8,7
229697	40	40	16	40	86	+0,8	20	280	+5	40	8,4

Dimensions correspond to nominal sizes without tolerance and without coating. Please contact us for exact measurements!

Swaged sleeve rotary locked PSH

12A

Pouch socket systems



Technical data

Material	Stainless steel (rustproof, cold resistant to -45°C)
Surface	Plain
Nominal tensile strength	≤ 2160 N/mm²
Loss factor	0,9

Fill factor range

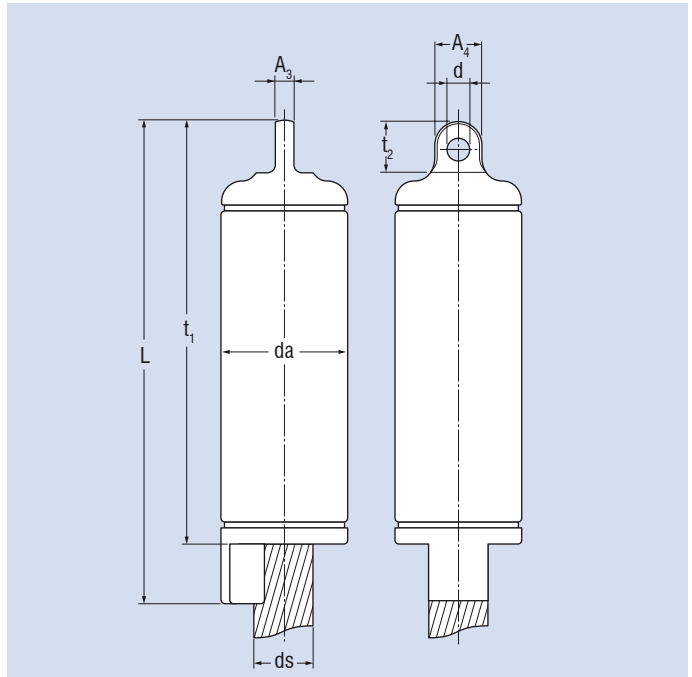
Fill factor f	0,64...0,78
---------------	-------------

Application area

Rotation-resistant and non-rotation-resistant ropes

Combination products

Pouch Socket PSH 22A



Don't use non-rotation resistant and rotation resistant ropes with a turnable fixed point (e. g. swivel). The end termination has to be fixed against rotation as well. If this is not observed considerable damage, serious injury or death will occur.

Reference no.	NG	ds	A ₃	A ₄	da	da Tol	d	L	t ₁	t ₁ Tol	t ₂	Weight
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
214426	16	14	10	24	36	+0,8	12	127	116	+3	24	0,7
214429	16	15	10	24	36	+0,8	12	127	116	+3	24	0,7
214290	16	16	10	24	36	+0,8	12	127	116	+3	24	0,6
214434	19	17	10	24	44	+0,8	12	148	135	+3	24	1,3
214435	19	18	10	24	44	+0,8	12	148	135	+3	24	1,2
214437	19	19	10	24	44	+0,8	12	148	135	+3	24	1
214439	22	20	10	24	48	+1	12	172	157	+4	26	1,7
214440	22	21	10	24	48	+1	12	172	157	+4	26	1,6
214441	22	22	10	24	48	+1	12	172	157	+4	26	1,6
214446	26	23	10	24	56	+1	12	199	181	+4	26	2,8
214450	26	24	10	24	56	+1	12	199	181	+4	26	2,7
214451	26	25	10	24	56	+1	12	199	181	+4	26	2,6
214156	26	26	10	24	56	+0,8	12	199	181	+3	26	2,6
214452	29	27	10	24	62	+1,2	12	222	202	+5	28	3,8
214125	29	28	10	24	62	+0,8	12	222	202	+3	28	3,5
213981	29	29	10	24	62	+0,8	12	222	202	+3	28	3,3
214453	32	30	10	24	68	+1	12	242	220	+4	28	5
214461	32	31	10	24	68	+1	12	242	220	+4	28	4,8
212710	32	32	10	24	68	+0,8	12	242	220	+3	28	4,6
214462	36	33	10	24	78	+1	12	276	252	+4	28	7,7
214463	36	34	10	24	78	+1	12	276	252	+4	28	7,4
214464	36	35	10	24	78	+1	12	276	252	+4	28	7,1
213982	36	36	10	24	78	+0,8	12	276	252	+3	28	6,8
229698	40	37	16	40	86	+1	20	307	280	+4	40	9,3
229699	40	38	16	40	86	+1	20	307	280	+4	40	9
229700	40	39	16	40	86	+1	20	307	280	+4	40	8,7
229701	40	40	16	40	86	+1	20	307	280	+4	40	8,4

Dimensions correspond to nominal sizes without tolerance and without coating. Please contact us for exact measurements!

Resin Socket PSH

13A

Pouch socket systems



Technical data

Material	Quenched and tempered steel (cold resistant to -40°C)
Surface	ACC
Cast	Synthetic Resin
Nominal tensile strength	≤ 2160 N/mm ²
Loss factor	0,9

Fill factor range

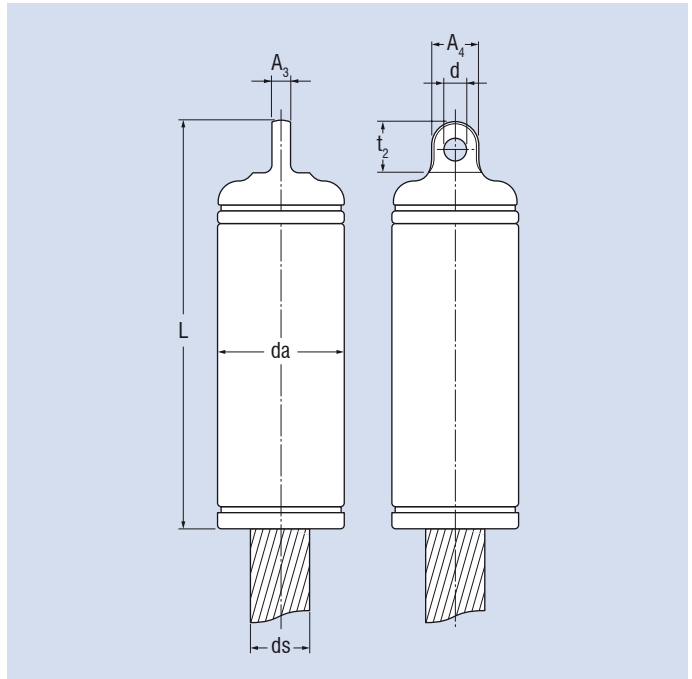
Fill factor f	0,64...0,78
---------------	-------------

Application area

High performance rotation-resistant ropes

Combination products

Pouch Socket PSH 22A



Don't use non-rotation resistant and rotation resistant ropes with a turnable fixed point (e. g. swivel). The end termination has to be fixed against rotation as well. If this is not observed considerable damage, serious injury or death will occur.

Reference no.	NG	ds mm	A ₃ mm	A ₄ mm	da mm	da Tol mm	d mm	L mm	L Tol mm	t ₂ mm	Weight kg
214332	16	14 – 16	10	24	36	+0,8	12	116	+3	24	0,52
214524	19	17 – 19	10	24	44	+0,8	12	135	+3	24	0,76
214532	22	20 – 22	10	24	48	+1	12	157	+4	26	1,14
214137	26	23 – 26	10	24	56	+1	12	181	+4	26	1,96
213994	29	27 – 29	10	24	62	+1,2	12	202	+5	28	2,46
212713	32	30 – 32	10	24	68	+1,2	12	220	+5	28	3,17
214001	36	33 – 36	10	24	78	+1,4	12	252	+6	30	5,06
229634	40	37 – 40	16	40	86	+1,4	20	280	+6	40	6,88
231437	44	41 – 44	16	40	94	+1,6	20	308	+7	40	8,57
231442	48	45 – 48	16	40	104	+1,6	20	336	+7	40	11,81
231443	52	49 – 52	20	52	114	+1,8	24	364	+8	50	15,37
273888	56	53 – 56	20	52	122	+1,8	24	389	+8	50	20
272567	60	57 – 60	20	52	130	+1,8	24	420	+8	50	25,2

Dimensions correspond to nominal sizes without tolerance and without coating. Please contact us for exact measurements!

Resin Socket rotary locked PSH

14A

Pouch socket systems



Technical data

Material	Quenched and tempered steel (cold resistant to -40°C)
Surface	ACC
Cast	Synthetic Resin
Nominal tensile strength	$\leq 2160 \text{ N/mm}^2$
Loss factor	0,9

Fill factor range

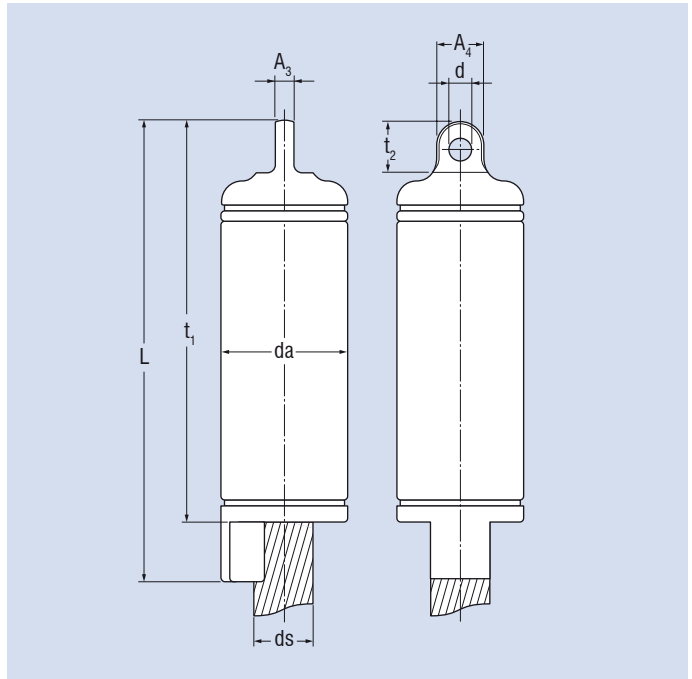
Fill factor f	0,64...0,78
---------------	-------------

Application area

Rotation-resistant and non-rotation-resistant ropes

Combination products

Pouch Socket PSH 22A



Don't use non-rotation resistant and rotation resistant ropes with a turnable fixed point (e. g. swivel). The end termination has to be fixed against rotation as well. If this is not observed considerable damage, serious injury or death will occur.

Reference no.	NG	ds	A ₃	A ₄	da	da Tol	d	L	t ₁	t ₂	t ₂ Tol	Weight
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
214365	16	14 – 16	10	24	36	+0,8	12	127	116	24	+3	0,53
214538	19	17 – 19	10	24	44	+0,8	12	148	135	24	+3	0,78
214551	22	20 – 22	10	24	48	+1	12	172	157	26	+4	1,17
214140	26	23 – 26	10	24	56	+1	12	199	181	26	+4	1,89
214004	29	27 – 29	10	24	62	+1,2	12	222	202	28	+5	2,52
212716	32	30 – 32	10	24	68	+1,2	12	242	220	28	+5	3,24
214005	36	33 – 36	10	24	78	+1,4	12	276	252	30	+6	5,18
229639	40	37 – 40	16	40	86	+1,4	20	307	280	40	+6	7,08
231372	44	41 – 44	16	40	94	+1,6	20	338	308	40	+7	8,78
231378	48	45 – 48	16	40	104	+1,6	20	368	336	40	+7	12,07
231383	52	49 – 52	20	52	114	+1,8	24	399	364	50	+8	15,7
273867	56	53 – 56	20	52	122	+1,8	24	427	389	50	+8	20,8
272553	60	57 – 60	20	52	130	+1,8	24	460	420	50	+8	25,8

Dimensions correspond to nominal sizes without tolerance and without coating. Please contact us for exact measurements!

Wire rope clamps acc. to EN 13411-5

Clamps

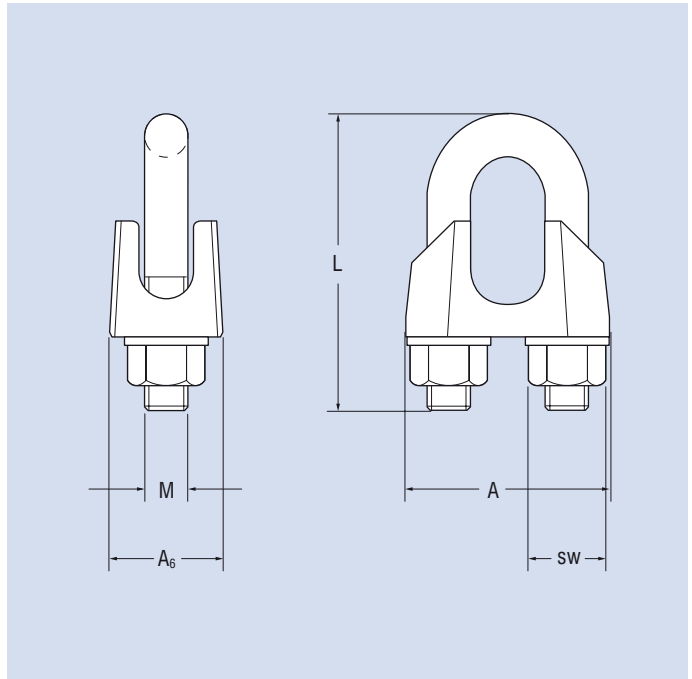


Technical data

Material clamping jaw	forged steel
Surface clamping jaw	Electrogalvanized
Material clamp	Steel
Surface clamp	galvanized
Material nut	Steel
Surface nut	zinc-plated

Application area

Round strand ropes



Don't use non-rotation resistant and rotation resistant ropes with a turnable fixed point (e. g. swivel). The end termination has to be fixed against rotation as well. If this is not observed considerable damage, serious injury or death will occur.

Reference no.	NG	M	A mm	A ₆ mm	L mm	SW mm	Weight kg
280301	5	M5	25	13	25	8	0,02
280299	6,5	M6	30	16	32	10	0,04
280297	8	M8	39	20	41	13	0,08
280300	10	M8	40	20	46	13	0,09
280298	12	M10	50	24	56	16	0,17
280302	14	M12	59	28	66	18	0,28
280303	16	M14	64	32	76	21	0,43
280305	19	M14	68	32	83	21	0,49
280304	22	M16	74	34	96	24	0,68
280308	26	M20	84	38	118	30	1,17
280306	30	M20	95	41	131	30	1,4
280307	34	M22	105	45	150	34	2,13
280309	40	M24	117	49	167	34	2,68

The nominal size of the wire rope clamp corresponds to the maximum rope diameter. For intermediate sizes of the nominal rope diameter, the next larger clamp size is to be used. The nominal size 5 is valid only for nominal rope diameter 5 mm.

Please have a look about proper use according to BS EN 13411-5. Wire rope clamps with U-shaped clamp stirrups are not suitable for use with spiral ropes!

Dimensions correspond to nominal sizes without tolerance and without coating. Please contact us for exact measurements!

Wire rope clamps

508

Clamps

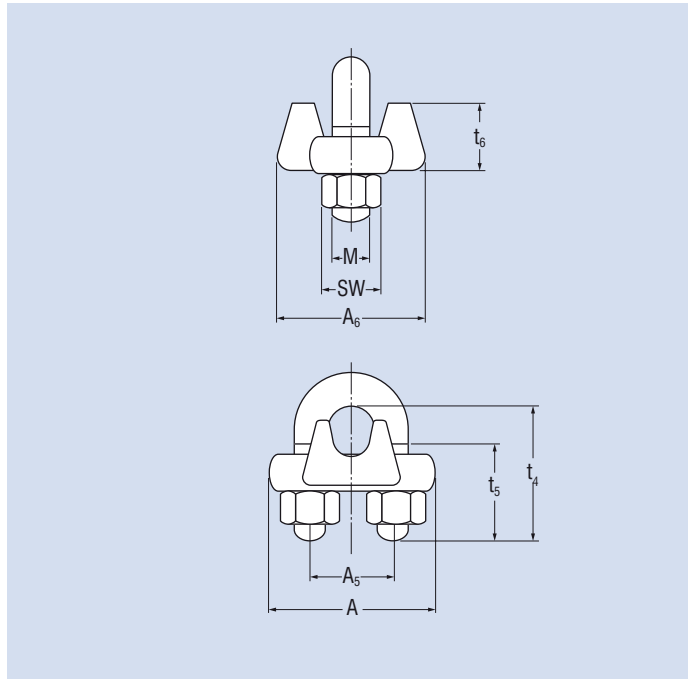


Technical data

Material clamp	forged steel
Surface clamp	zinc-plated
Material screw	heat treatable steel

Application area

Round strand ropes



Don't use non-rotation resistant and rotation resistant ropes with a turnable fixed point (e. g. swivel). The end termination has to be fixed against rotation as well. If this is not observed considerable damage, serious injury or death will occur.

item number	NG	ds mm	M mm	A mm	A ₅ mm	A ₆ mm	SW mm	t ₄ mm	t ₅ mm	t ₆ mm	m/100 pcs. kg
0350808	8	8	9,5	43	22,5	33,5	17,5	35	19	18,5	12,7
0350810	10	10	11	49,5	25,5	41,5	19	38	19	23	21,8
0350811	11	11	12,5	58	30	46	22,5	48	25,5	26	35,4
0350813	13	13	12,5	58	30	48,5	22,5	48	25,5	28,5	36,3
0350815	15	15	14	63,5	33,5	52,5	24	57	32	31	49,4
0350816	16	16	14	63,5	33,5	52,5	24	60,5	32	34	49,9
0350820	20	20	15,5	72	38	57	27	70	36,5	36	64
0350822	22	22	19	80,5	44,5	62	32	79	41	40,5	96
0350826	26	26	19	88	48	67	32	89	46	45	114
0350830	30	30	19	91	51	71,5	32	98,5	51	48,5	128
0350834	34	34	22,5	105	58,5	79,5	36,5	108	54	55,5	199
0350836	36	36	22,5	106	60,5	79,5	36,5	118	58,5	58,5	200
0350838	38	38	22,5	113	66,5	86,5	36,5	125	60,5	62	247
0350842	42	42	22,5	121	70	92	41,5	135	66,5	67,5	319
0350846	46	46	28,5	134	77,5	97	46	146	70	74,5	424
0350852	52	52	32	149	86	113	51	164	76	83,5	590
0350858	58	58	32	162	98,5	114	51	181	81	81	726

Dimensions correspond to nominal sizes without tolerance and without coating. Please contact us for exact measurements!

Open wedge socket PSH 95A

Clamps



Technical data

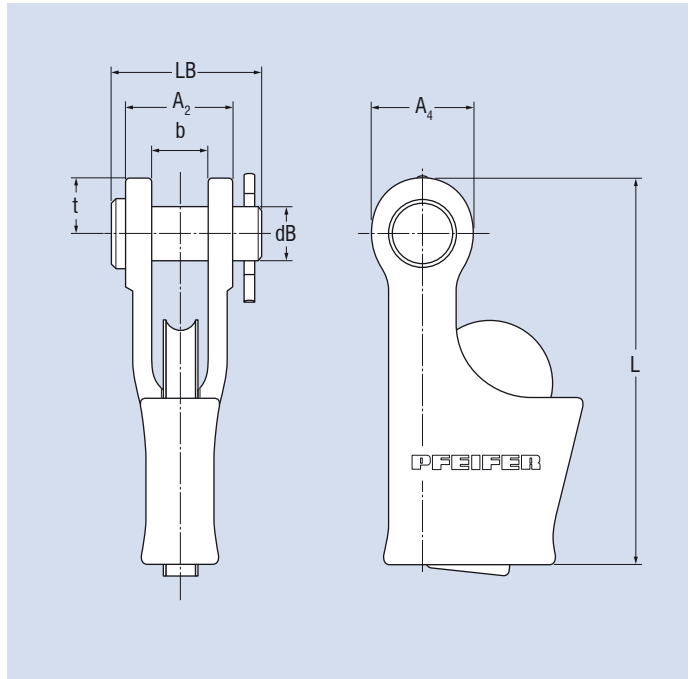
Material bolt	Quenched and tempered steel
Material housing	Cast steel (cold resistant to -40 °C)
Surface housing	Hot-dip galvanised
Material wedge	Cast steel (cold resistant to -40 °C)
Surface wedge	Hot-dip galvanised
Loss factor	0,8

Application area

Round strand ropes

Combination products

Pouch Socket LH 570/85A
Swivel Pouch Socket LH 571/86A



Don't use non-rotation resistant and rotation resistant ropes with a turnable fixed point (e. g. swivel). The end termination has to be fixed against rotation as well. If this is not observed considerable damage, serious injury or death will occur.

Reference no.	NG	ds	A ₂	A ₄	b	dB	LB	L	t	WLL	MBL	Weight
		mm	mm	mm	mm	mm	mm	mm	mm	kN	kN	kg
289721	8 / 7	7	36	36	18	16	52	130	18	20	70	0,8
289720	8 / 8	8	36	36	18	16	52	130	18	20	70	0,8
270717	10 / 9	9	42,5	40	20,5	21	59,5	145	22	35	110	1,2
270733	10 / 10	10	42,5	40	20,5	21	59,5	145	22	35	110	1,2
270718	13 / 11	11	50	50	25	26	71	180	27	55	185	2,6
270734	13 / 12	12	50	50	25	26	71	180	27	55	185	2,6
270735	13 / 13	13	50	50	25	26	71	180	27	55	185	2,6
270719	17 / 13	13 – 14	60	58	32	30	85	225	31	95	316	4,7
270736	17 / 15	15 – 16	60	58	32	30	85	225	31	95	316	4,7
270737	17 / 17	17	60	58	32	30	85	225	31	95	316	4,7
270720	19 / 16	16 – 17	72	67	38	35	99	255	36,5	120	395	6,5
270738	19 / 18	18 – 19	72	67	38	35	99	255	36,5	120	395	6,5
270721	23 / 19	19 – 20	83	80	45	41	115	300	44	170	580	9,8
270739	23 / 21	21 – 23	83	80	45	41	115	300	44	170	580	9,8
270722	26 / 23	23 – 24	96	96	51	50	129	330	53	220	740	14,5
270741	26 / 25	25 – 26	96	96	51	50	129	330	53	220	740	14,5
270724	29 / 27	27 – 29	107	108	57	57	145	375	59	275	920	20
270726	33 / 30	30 – 31	120	115	63	63,5	159	425	63,5	355	1190	31
270728	33 / 32	32 – 33	120	115	63	63,5	159	425	63,5	355	1190	31

Additional sizes on enquiry.

Dimensions correspond to nominal sizes without tolerance and without coating. Please contact us for exact measurements!

Swivel PSH Fork - Eye 42A

Swivels



Technical data

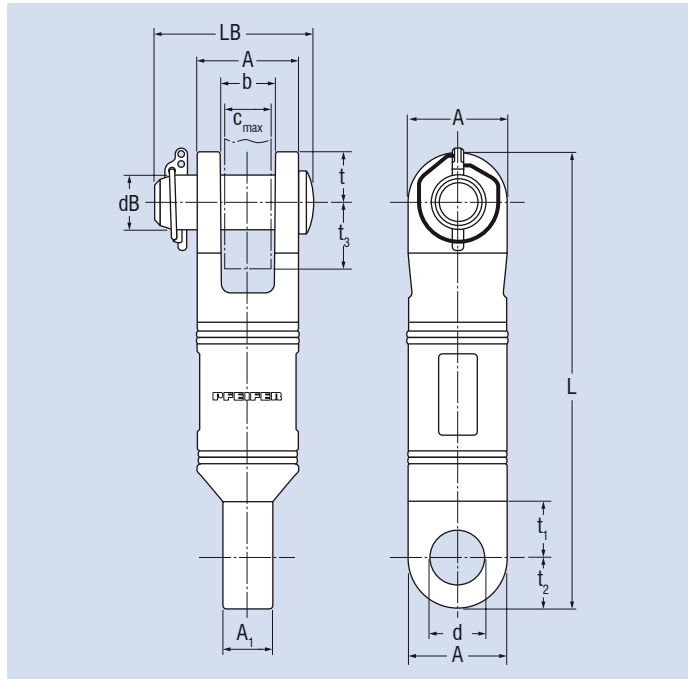
Material	Socket body	Cast steel
	Pin	Cold resistant to – 40 °C Quenched and tempered steel
Surface	Socket body	Painted
	Pin	Nitrided
	Security locking pin	Galvanized

Application area

High performance rotation-resistant ropes

Combination products

Pouch Socket PSH



Don't use non-rotation resistant and rotation resistant ropes with a turnable fixed point (e. g. swivel).
The end termination has to be fixed against rotation as well.
If this is not observed considerable damage, serious injury or death will occur.

Reference no.	NG	A	A ₁	d	dB	L	LB	b	t	t ₁	t ₂	t ₃	c _{max}	m	WLL
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kN
234402	16	60	29	31,5	30	281	98	32	30	34	30	57,5	31	13,6	85
234403	19	72	35	36,5	35	335	115	38	36	40	36	62,5	37	19	120
234404	22	83	42	42,5	41	378	129	45	41,5	47	41,5	67,5	44	26,6	160
234133	26	95	48	51,5	50	425	149	51	47,5	53	47,5	72,5	50	37,5	220
234276	29	107	54	58,5	57	467	164	57	53,5	59	53,5	77,5	56	52	275
234394	32	120	60	65	63,5	513	180	63	60	65	60	82,5	62	70,8	335
234397	36	134	67	75	73,5	574	203	70	67	72	67	90	69	99,2	425
234398	40	150	73	82,5	81	630	222	77	75	78	75	100	75	136	520
234399	44	165	81	86,5	85	683	242	85	82,5	86	82,5	110	83	172,5	630
234400	48	180	90	91,5	90	740	263	94	90	95	90	120	92	227,6	755
234401	52	196	100	96,5	95	801	282	104	98	105	98	130	102	289,7	885

WLL = maximum payload

t₃ = maximum dimension

Dimensions correspond to nominal sizes without tolerance and without coating. Please contact us for exact measurements!

Other sizes on request!

PFEIFER-Repair-Service for sockets

PFEIFER

Your benefits

- +** PFEIFER guarantees you a **rope repair in original rope quality**.
- +** The casting of resin reaches **100 % of the breaking load of the original rope system** so you can use your crane rope safely as before.
- +** Of course the repair of ropes with the **original PFEIFER pouch socket system** is also possible.
- +** Certified service technicians come to the work site of your application with the **mobile repair service**.
- +** Repair of hoisting and luffing ropes of these manufacturers:
 - LIEBHERR
 - TEREX DEMAG
 - GROVE GMK new!
 - SENNEBOGEN
 - BAUER

Our repair-services for a perfect result

- Localizing, marking and detaching of the damaged rope section professionally.
- Preparing the rope brush and casting the socket will be done in the specially designed PFEIFER pull-in device to achieve an optimal result.
This procedure guarantees you a continued safe performance of your crane rope in your pouch socket system.
- Of course we document the repair and prepare an appropriate certificate.

If your hoisting rope is damaged don't give up the easy and save handling of your crane rope with the original socket.



! Mobile repairs of sockets require expertise and experience. Therefore these repairs are only done by specially trained and regularly audited employees. Each of our authorized employee has a certificate that he will be happy to show off.



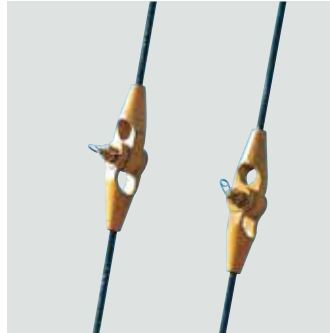
Correct handling of rope end terminations

Instructions for use



Aluminium Ferrules with tin or solid thimbles

It is important to ensure that the rope is in the groove of the thimble. The maximum operating temperature is 150°C / 300 F unless the original equipment manufacturer recommends otherwise.



Cast Terminations (Casting sockets/Cable Sleeves)

The maximum operating temperature for cast terminations is 80°C / 175 F for resin, at 120°C / 250 F for zinc.



Pouch sockets

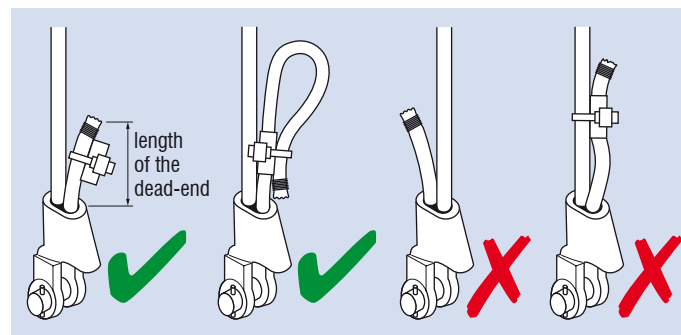
With the use of pouch sockets it should be noted that after the insertion of the end this connection is secured against slipping out. The maximum operating temperature for various swaged steel end connections is 200°C / 400 F, for resin terminations is 80°C / 175 F.



Wedge sockets

With the use of wedge sockets the rope is introduced on the balanced side so that under load the center line of the rope is in-line with the bolt hole. The dead-end is passed through the asymmetric side and is secured with a rope clip.

The length of the dead-end should be 10 x the nominal rope diameter, at least 150mm. The rope clip must be applied only to the loose, unloaded rope end, never on both strands. The maximum operating temperature for wedge sockets is 200°C/400 F.



Detailed handling constructions you will find in our operating manual for wedge sockets in the PFEIFER download centre at:

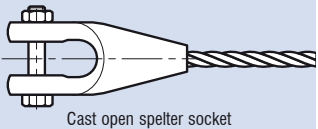
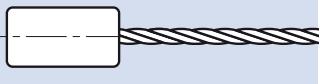
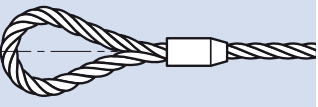
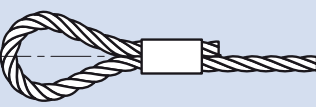
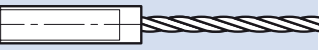
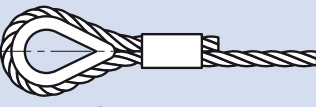
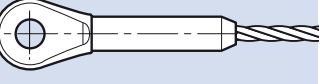
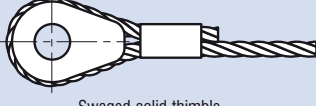
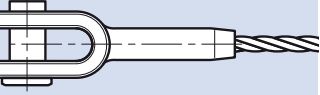
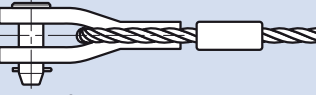
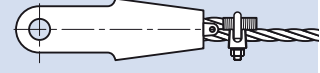
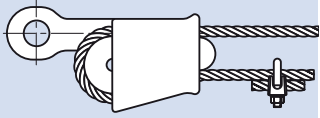
→ www.pfeifer.info/manual-wedge-socket



! Instruction

When a rope is to be re-terminated with a wedge socket assembly this can only be achieved by shortening the rope. No part of any previous flattening and/or damaged rope should be on the standing part of the rope or within the clamping area between either side of the socket body and the wedge.

Breaking force reduction caused by rope end terminations

 Cast open spelter socket	100 %	100 %	 Cast cylindrical socket
 Flemish eye	90 %	90 %	 Swaged thread fitting**
 Swaged eye	90 %	90 %	 Swaged clamp with thread**
 Swaged thimble	90 %	90 %	 Closed swaged fitting**
 Swaged solid thimble	90 %	90 %	 Open swaged fitting**
 Swaged fork end thimble	90 %		
 Rope clamp acc. EN 13411-5***	80 %		
 Spliced eye	80 %	80 %	 Open wedge socket symmetric
 Spliced thimble	80 %*	80 %	 Open wedge socket asymmetric

Most rope end terminations reduce the breaking force of the rope system significantly. As a **approximate value**, we give you the remaining value of the minimum breaking force as a percentage of the minimum breaking force of the rope according to the following table.



WARNING:

These data define the ideal case. That means that the in rope system used rope end terminations (especially casting sockets, fittings and open wedge sockets) must fit in design and material quality regarding the used rope type (construction, nominal strength, compacted / uncompact). If in doubt, the system breaking force needs to be determined by type testing through tensile testing.

* with spliced terminations in some cases, a reduction of the tensile strength of up to 40 % may occur. This depends on the rope construction and the rope diameter

** These terminations are only for use with full steel wire ropes (with steel core)

*** the use of wire clamps with compacted wire ropes is not described by the standard and should therefore be avoided!

Further products and services

Rope accessories



Connecting links

For fast and simple connection and fastening options of steel wire ropes

Available in various versions



Manual strand ropes



Bolts

For fast and stable securing in the most diverse areas of application

Detailed manual for the proper use of your strand ropes with useful tips to extend the rope lifetime

Further languages on request

Included in each Rope Service Starter Kit and the measurement equipment cases 75/150 or available as PDF in the PFEIFER download centre at:



→ www.pfeifer.info/manual-strand-ropes

Rope service and rope handling



Rope lubrication RL-S & RL-B

Product		Part.-No.
12 x Spray 600 ml		245066
Bucket 10 l		212406
Bucket 30 l		212405

Maintain your wire ropes with the proper re-lubricant and extend the lifetime.

Save costs for new ropes and rope changes by extended lifetime.

We can offer re-lubricating large rope lengths using a special re-lubrication device. Our service team comes to you worldwide and saves you cost intensive trips with your crane.



Rope measurement

- Groove gauges
- Caliper gauges
- Sets

Use our special measurement devices from the rope specialist to reduce costs by extending the lifetime.

Based on our long-term practical experience of rope drive inspection, we created a measurement devices program.

These measurement devices are used by our rope experts for each inspection and thereby approved for general use.



Tools for working on ropes

- Crimping pliers
- Wire rope cutter

So that you can also easily carry out minor work on ropes, PFEIFER offers you a selection of different tools for working on ropes.



Rope assembly aids

- Winding blocks
- Rope tensioning clamps
- Cable grips

PFEIFER rope assembly aids assist you reliably in the attachment and replacement of your steel ropes.



Innovative packaging solutions

- Reels
- Stand for reels

PFEIFER-reels and PFEIFER-stands for reels – the perfect combination for your ropes:

- Optimized packaging sizes
- Simplified transport – to be taken by forklift
- Stands for reels are gently for reels and ropes
- Prevention of transport mistakes and resulting damages
- Heat treatment according to ISPM 15

Rope services



Rope assembly

PFEIFER is expert in all kinds of rope assembly – from the high-precision manufacturing of the finest ropes for medical technology to the precise cutting to length of crane hoisting ropes and the casting of ropes with the largest of diameters.



End connection design

Standard or tailor-made – through our own development and production every rope receives the optimal connection.



Rope stocking

PFEIFER guarantees fast availability in one of the industry's largest stock assortments and a capacity of well over 4000 tonnes in a fully automatic rope warehouse in Memmingen and in further warehouses all over the world. High-performance logistics partners guarantee fast delivery. Thanks to optimised packaging, every reel reaches its destination worldwide well protected.



Rope inspection

After the delivery of the optimum rope we support our customers and are happy to assist with all questions regarding the rope application.

We analyse optimization potentials at rope winches and drives, check ropes for damages and abrasion to extend the lifetime and reduce rope change and down time costs.

We do this job on a daily basis – worldwide.



Technical rope seminar

Interested in a seminar at your premises?

We would be pleased to provide you with an individual offer.

Using discarded products or disregarding basics of proper application by the use of wire ropes can cause enormous danger for humans and material.

Trained employees increase safety in your company, avoid accidents and reduce costs.

In our established technical seminars, our competent and experienced instructors train your staff in latest standards and in all theoretical and practical issues.



Rope application consultancy

Through the correct selection of ropes and end connections to suit the conditions of use you can achieve the most economical lifetime, reduce possible dangers and avoid high failure costs.

Rope services

Rope analysis

- PFEIFER analyses with extensive tests in the central Rope and Material Test Centre all properties of wire ropes and applied materials at the headquarter in Memmingen as well as at further machines at PFEIFER DRAKO in Mülheim/Ruhr. Also necessary tests can be done locally in our global subsidiaries.
- Aware that not only the usual catalog values such as weight per meter and minimum breaking force decide on the performance of wire ropes, all properties of the ropes are determined at PFEIFER in extensive tests.
- Equipped with this knowledge, we will choose the right wire rope for your application and so we optimize the lifetime of your equipment.



Test Facility for Determining Bending Fatigue



Magnaflux Test



Rope Efficiency Test Facility



Spectral Analysis

Multi Layer Spooling Test Tower

Further Offers:

Test Facility for Lateral Pressure Resistance

Coat Thickness Measuring

Ultrasonic

Torsion Test Facility

Microscopic Analysis

Elongation and Pull Test Facility

Hardness Test

Notch Impact Test

Dye Penetrate Test

Pull Test Facility
800 kN



Tension Fatigue Test Facility



Pull Test Facility
6,000 kN

PFEIFER – at your service all over the world



GERMANY

■ Memmingen

TEL +49-8331-937-301
E-MAIL wirerope@pfeifer.de
WEB www.pfeifer.info

■ Hamburg

TEL +49-40-780-463-0
E-MAIL psh-hamburg@pfeifer.de
WEB www.pfeifer.info

AUSTRIA

■ Asten

TEL +43-7224-66224-0
E-MAIL info@pfeifer-austria.at
WEB www.pfeifer-austria.at

CHINA

■ Shanghai

TEL +86-21-56778006
E-MAIL info@pfeifer.com.cn
WEB www.pfeifer.com.cn

HUNGARY

■ Budapest

TEL +36-1-2601014
E-MAIL info@pfeifer-garant.hu
WEB www.pfeifer-garant.hu

LUXEMBOURG

■ Schiffflange

TEL +352-574242
E-MAIL info@pfeifer-sogequip.lu
WEB www.pfeifer-sogequip.lu

POLAND

■ Wrocław

TEL +48-71-3980760
E-MAIL info@pfeifer.pl
WEB www.pfeifer.pl

RUSSIA

■ Moscow

TEL +7-495-363-01-27
E-MAIL info@pfeiferrussia.ru
WEB www.pfeiferrussia.ru

■ St. Petersburg

TEL +7-812-740-12-24
E-MAIL info@pfeiferrussia.ru
WEB www.pfeiferrussia.ru

SPAIN

■ Madrid

TEL +34-91-659-3185
E-MAIL p-es@pfeifer.de
WEB www.pfeifer.es

SWITZERLAND

■ Knonau

TEL +41-44-768-55-55
E-MAIL info@pfeifer-isofer.ch
WEB www.pfeifer-isofer.ch

UNITED KINGDOM

■ Crewe

TEL +44-1270-587728
E-MAIL sales@pfeiferdrako.co.uk
WEB www.pfeifer.co.uk

■ Southampton

TEL +44-23-8066-5470
E-MAIL sales@ropeandtackle.com
WEB www.ropeandtackle.com

USA

■ Hampton

TEL +1-757-825-2544
E-MAIL info@pfeifer.us.com
WEB www.pfeifer.us.com

■ Houston

TEL +1-832-827-2923
E-MAIL info@pfeifer.us.com
WEB www.pfeifer.us.com

VAE

■ Dubai

TEL +971-4-883-8445
E-MAIL sales@pfeifer.ae
WEB www.pfeifer.ae