

# Fatigue resistant Open Spelter Socket - adjustable type 710



**European technical assessment:** Part of ETA-11/0160.

**Design:** Subject to technical modifications!

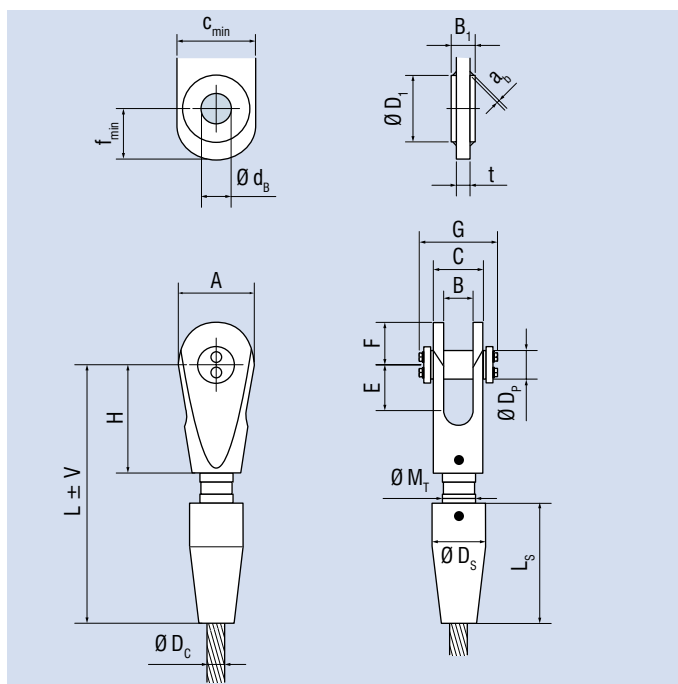
**Fatigue strength:** Detail category of cables according to EN 1993-1-11:  $\Delta\sigma_c = 150 \text{ N/mm}^2$  bei  $v_{MF} = 1,0$ ;  $\sigma_0 = 0,45 \times \sigma_{uk}$ ;  $n = 2 \times 10^6$  number of cycles.

The open spelter sockets type 710 fulfill the exposure classes 1 to 4 according EN 1993-1-11.

**Technical details:** Dimensions without corrosion protection!

Total weight without potting material.

Socketing according to technical approval ETA-11/0160



Size			PV 40	PV 60	PV 90	PV 115	PV 150	PV 195	PV 240	PV 300	PV 360	PV 420	PV 490	PV 560	PV 640
Total length	L	mm	359	429	497	559	590	660	746	824	894	973	1041	1111	1181
Take-up	V	mm	± 32	± 36	± 38	± 42	± 42	± 46	± 56	± 58	± 62	± 70	± 72	± 76	± 80
Min. screw-in length		mm	25	31	39	45	45	51	57	65	71	78	86	92	98
Total weight		kg	8.6	15	24.6	34.9	42.3	60	84	111	144	188	233	294	354
<b>Threaded Rods</b>															
Corrosion protection: Zink/Nickel-coated															
Diameter outer thread	ØM <sub>T</sub>	mm	42	52	64	75	75	85	95	108	118	128	140	150	160
Pitch outer thread		mm	3	3	4	4	4	4	4	4	4	4	4	4	4
<b>Sockets</b>															
Corrosion protection: hot-dip galvanized															
Total length	L <sub>s</sub>	mm	165	200	235	270	270	305	350	385	420	460	495	530	565
Outer diameter	ØD <sub>s</sub>	mm	80	95	110	125	125	140	155	170	185	205	220	235	250
Pitch inner thread		mm	3	3	4	4	4	4	4	4	4	4	4	4	4
<b>Fork End</b>															
Corrosion protection: hot-dip galvanized															
Dimension	A	mm	92	116	137	153	176	197	220	241	263	285	307	329	351
Dimension	B	mm	35	43	52	60	68	77	85	94	102	111	119	128	136
Dimension	C	mm	61	75	90	102	116	131	145	160	174	189	203	218	232
Dimension	E	mm	55	70	83	93	106	120	133	146	159	173	186	199	212
Dimension	F	mm	57	68	86	91	98	110	123	140	153	165	178	195	208
Dimension	H	mm	132	163	194	217	248	279	310	341	372	403	434	465	496
<b>Pins</b>															
Corrosion protection: hot-dip galvanized															
Pin length	G	mm	108	128	152	168	183	213	227	257	273	306	321	346	367
Pin diameter	ØD <sub>p</sub>	mm	39	44	54	59	64	73	83	88	98	108	118	128	138
<b>Connection Plate</b>															
Material: S355															
Min. width	c <sub>min</sub>	mm	110	120	140	155	180	200	220	240	270	300	320	340	370
Plate thickness	t	mm	20	20	25	30	30	40	40	50	50	50	50	60	60
Diameter drilled hole	Ød <sub>b</sub>	mm	42	47	57	62	67	76	86	91	101	111	121	131	141
Diameter reinforcing plate	ØD <sub>1</sub>	mm	100	100	120	130	150	170	180	200	230	250	270	290	310
Edge distance	f <sub>min</sub>	mm	62	75	90	100	110	120	140	150	170	185	200	215	235
Reinforcing plate thickness	B <sub>1</sub>	mm	29	36	45	52	60	69	76	85	92	100	107	114	121
Weld size	a <sub>b</sub>	mm	3	4	5	5	6	6	7	7	8	10	11	11	12
<b>Full locked Cables</b>															
Nomin. strand diameter	Ø D <sub>c</sub>	mm	21	26	31	35	40	45	50	55	60	65	70	75	80

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Size			PV 720	PV 810	PV 910	PV 1010	PV 1110	PV 1220	PV 1340	PV 1450	PV 1580	PV 1730	PV 1860	PV 2000
Total length	L	mm	1261	1345	1415	1483	1561	1634	1731	1808	1885	1962	2037	2114
Take-up	V	mm	± 84	± 92	± 96	± 98	± 114	± 124	± 118	± 122	± 130	± 134	± 140	± 144
Min. screw-in length		mm	104	112	118	126	129	135	141	147	156	162	168	174
Total weight		kg	420	507	599	692	812	938	1085	1236	1400	1581	1768	1964
<b>Threaded Rods</b>														
Corrosion protection: Zink/Nickel-coated														
Diameter outer thread	ØM <sub>1</sub>	mm	172	185	195	205	215	225	235	245	260	270	280	290
Pitch outer thread		mm	4	6	6	6	6	6	6	6	6	6	6	6
<b>Sockets</b>														
Corrosion protection: hot-dip galvanized														
Total length	L <sub>s</sub>	mm	600	645	680	715	760	800	840	880	920	960	1000	1040
Outer diameter	ØD <sub>s</sub>	mm	265	280	295	310	330	345	360	380	395	410	425	440
Pitch inner thread		mm	4	6	6	6	6	6	6	6	6	6	6	6
<b>Fork End</b>														
Corrosion protection: hot-dip galvanized														
Dimension	A	mm	372	395	416	438	459	484	511	532	555	577	599	621
Dimension	B	mm	145	153	162	170	179	187	196	204	213	221	230	238
Dimension	C	mm	247	261	276	290	305	319	334	348	363	377	392	406
Dimension	E	mm	226	239	252	265	279	292	305	318	332	345	358	371
Dimension	F	mm	220	233	253	263	276	286	299	312	325	338	351	364
Dimension	H	mm	527	558	589	620	651	682	713	744	775	806	837	868
<b>Pins</b>														
Corrosion protection: hot-dip galvanized														
Pin length	G	mm	382	406	432	457	474	498	513	527	542	577	592	607
Pin diameter	ØD <sub>p</sub>	mm	142	153	162	172	182	187	202	207	217	227	237	247
<b>Connection Plate</b>														
Material: S355														
Min. width	c <sub>min</sub>	mm	390	420	440	470	500	540	570	600	630	670	690	700
Plate thickness	t	mm	60	60	60	70	70	70	80	80	80	80	100	100
Diameter drilled hole	Ød <sub>b</sub>	mm	145	156	165	175	185	190	205	210	220	230	240	250
Diameter reinforcing plate	ØD <sub>1</sub>	mm	330	350	370	400	430	470	500	520	550	580	600	610
Edge distance	f <sub>min</sub>	mm	245	260	275	290	310	320	340	350	365	385	400	415
Reinforcing plate thickness	B <sub>1</sub>	mm	129	136	144	151	159	165	174	180	187	193	196	204
Weld size	a <sub>b</sub>	mm	13	14	16	16	16	16	16	18	18	20	18	20
<b>Full locked Cables</b>														
Nomin. strand diameter	Ø D <sub>c</sub>	mm	85	90	95	100	105	110	115	120	125	130	135	140