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GENERAL **Bare low voltage** and **medium voltage** lines are most commonly used for distribution throughout the world.
This catalogue contains some important fittings for such lines, but a more detailed description of **tower attachments, string hardware, suspension** and **tension clamps**, is shown in Cat. parts Nr. 2, 3, 4 and 5.

Standards The **dimensions** are according to DIN 48066.
The **connecting bolts** acc. DIN 48073/5.6 or 8.8.
Split pins are made of stainless steel or tinned copper.
Clevis eye connections acc. DIN 48074 resp. IEC 471 .

Standards for **balls and sockets** according to IEC 120 resp. DIN IEC 120, other standards upon request.

Connecting dimensions for arcing protection acc. DIN 48068 and ÖNORM E4199.

Dimensions of other connections are shown in the relevant catalogue section, but also others are available upon request.

Safety split pins for sockets are in accordance to IEC 372 resp. DIN 48063.

Hot dip galvanising Steel hardware is hot dip galvanised in Mosdorfer's own plant.
Galvanising can be done in accordance to national and international standards.

abbreviation for bolts:

S = screw bolt

N = rivet bolt

MATERIALS FOR LOW VOLTAGE LINES HOUSE SERVICE CONNECTIONS

Roof poles, welded. 1

Material: Steel, hot dip galvanised

L.-Nr.	Dimensions in mm Ø x length	Weight kg
2010.10	89 x 3,0	22,00
2010.11	89 x 3,0	25,50
2010.12	89 x 4,0	28,00
2010.20	102 x 3,0	30,00
2010.21	102 x 3,5	33,50
2010.22	102 x 4,0	37,00
2010.23	102 x 4,5	40,50

Crossarms 2

Material: Steel, hot dip galvanised

L.-Nr.	Type	for Insulator	Dimensions in mm		Weight kg
			Length	Bolt Ø	
2020.10	B 80	S 80	590	18	4,20
2020.11	B 115	S 115	590	28	7,95

Fixing collars 3

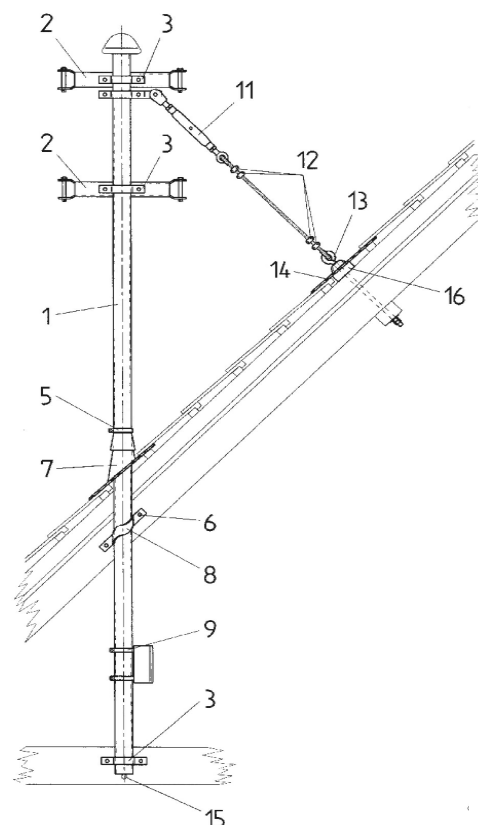
Material: Steel, hot dip galvanised

L.-Nr.	Type	Dimensions in mm for pole Ø	Weight kg
2030.02	S89 g	89	0,81
2030.03	S102 g	102	0,87
2030.11	S89 sr	89	0,90
2030.12	S102 sr	102	1,00
2030.16	S89 sl	89	0,90
2030.17	S102 sl	102	1,00

Fixing collars 9

Material: Steel, hot dip galvanised

L.-Nr.	Type	Dimensions in mm for pole Ø	Weight kg
2100.02	SH89	89	1,17
2100.03	SH102	102	0,20



Example of a house service connection

Item:

- (1) Roof pole
- (2) Cross arm
- (3) Fixing collar
- (5) Water ingress collar
- (6) Double arming bolt
- (7) Roof plate
- (8) Fixing collar
- (9) Fixing collar
- (10) Anchor
- (11) Turnbuckle
- (12) Wire rope clip
- (13) Eye bolts
- (14) Anchor roof plate
- (15) Wood screw 12 x 100
- (16) Packing piece
- (17) Counter piece

Anchor roof plate 14

Material: Galvanised sheet 0,6 mm		
L.-Nr.	Type	Weight kg
2130.05	D	0,80

Anchor roof plate 14 corrugated for all profiles

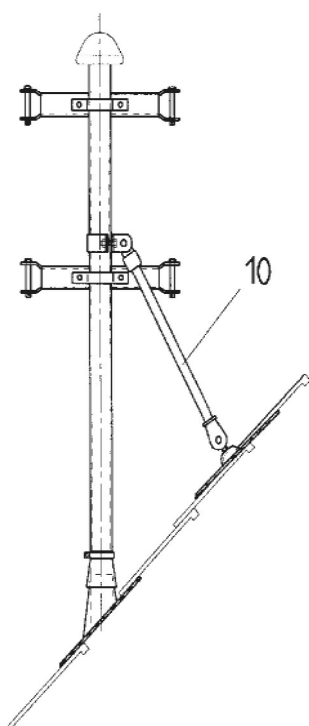
Material: Galvanised sheet 0,6 mm		
L.-Nr.	Type	Weight kg
2130.10	EA	0,21

Packing piece 16 for anchor roof plate

Material: Wood	
L.-Nr.	Weight kg
2140.02	0,65

Roof plates 7

Material: Galvanised sheet 0,6 mm			
L.-Nr.	Type	for pole Ø mm	Weight kg
2070.02	A 89	89	0,88
2070.03	A102	102	0,90



Roof pole with anchor

Anchor 10

complete but without tube, with 2 screws M 16 x 50 with nuts.

Material: Strap: steel, hot dip galvanised Caps: aluminium-alloy	
L.-Nr.	Weight kg
2112.01	2,60

Eye bolts 13

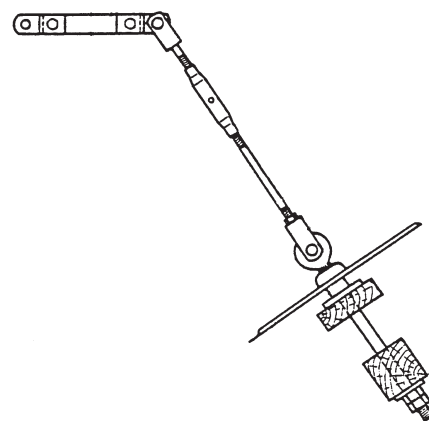
with thimbles for wires upto 70 mm²

Material: Steel, hot dip galvanised		
L.-Nr.	Thread x length mm	Weight kg
2120.11	M 20 x 400	1,80
2120.12	M 24 x 400	2,68
2120.13	M 24 x 500	3,00

Counter piece 17

for anchor roof plate

Material: Steel, hot dip galvanised	
L.-Nr.	Weight kg
2140.01	0,89



Example with short anchor

Turnbuckle 11

complete with 2 screws M 16 x 50 with nuts for wires upto 70 mm².
Turnbuckle adjustable 100 mm.

Material: Steel, hot dip galvanised	
L.-Nr.	Weight kg
5102	2,50

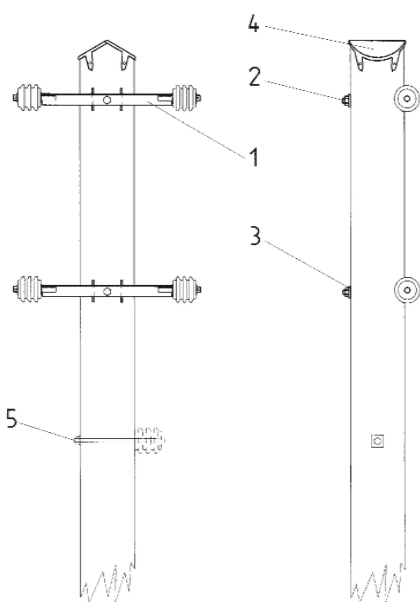
Water ingress collars 5

Material: Galvanised sheet 0,6 mm			
L.-Nr.	Type	for pole Ø	Weight kg
2060.02	TR 89	89	0,20
2060.03	TR102	102	0,24

Crossarms for suspension poles

Material: Steel, hot dip galvanised

L.-Nr.	Type	Cross section mm ²	for insulators	Dimensions in mm			Weight kg
				Bolt Ø	Length	Angle	
2370.01	TG89	50	S80	20	690	40x40x4	1,80
2370.02	TG115	70	S115	28	720	45x45x5	4,10



Example for a low voltage pole

D-Irons

Material: Steel, hot dip galvanised

L.-Nr.	Type	for insulators	Dimensions in mm			Weight kg
			Hole Ø	Bolt Ø	Length	
2200.11	UB80	S 80	18	18	90	0,80
2200.12	UB115	S115	21	28	130	2,15

Insulator pins

Material: Steel, hot dip galvanised

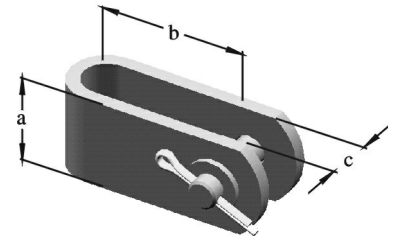
L.-Nr.	Ö-Norm	Type	for insulators	Weight kg
1192.02	E4155	SS80	S80	0,62
1192.03	E4155	SS115	S115	1,50
1193.02	—	SSH115	S115	1,90
1191.02	E4150	NS95	N95	0,70
1181.02	E4152	NSG95	N95	0.80

MATERIAL FOR MEDIUM VOLTAGE LINES

Strain hinges

Material: Steel, hot dip galvanised

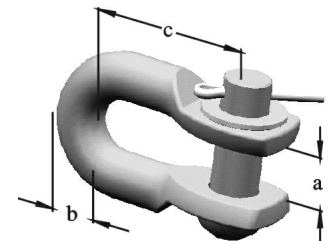
L.-Nr.	Type	Dimensions in mm				Breaking strength kN	Weight kg
		Bolt	a	b	c		
4140.01	G 6	N 13	40	54	20	40	0,41
4140.02	GS 8	N 19	50	63	20	90	0,70
4140.10	GS 10	N 19	70	65	20	90	0,80



Shackles

Material: Steel, hot dip galvanised

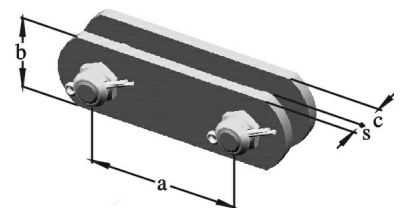
L.-Nr.	Dimensions in mm				Breaking strength kN	Weight kg
	Bolt	a	b	c		
4250.01	N 13	20	16	55	47	0,32
4250.02	N 13	25	16	80	47	0,38
4250.11	S 16	20	16	70	59	0,47



Parallel links

Material: Steel, hot dip galvanised

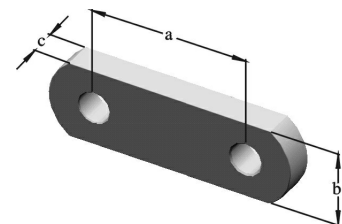
L.-Nr.	Dimensions in mm				Breaking strength kN	Short circuit current kA	Weight kg
	b x s	Bolt	a	c			
4263.10	40 x 6	S 19	70	20	75	15	0,78
4263.12	50 x 8	S 19	70	20	160	30	1,18

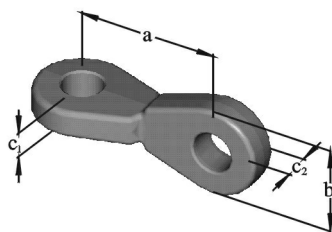


Double eyes straight

Material: Steel, hot dip galvanised

L.-Nr.	for bolt	Dimensions in mm			Breaking strength kN	Short circuit current kA	Weight kg
		a	b	c			
4260.01	13	50	40	13	60	10	0,27
4260.04/2	16	70	50	19	130	25	0,78
4260.04	19	70	50	19	200	35	0,77
4260.05/7	19	80	60	19	240	40	1,00
4260.04/1	19	100	50	19	200	35	0,98

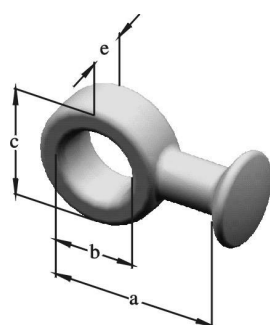




Twisted eye links

Material: Steel, forged, hot dip galvanised

L.-Nr.	for bolt	Dimensions in mm				Breaking strength kN	Short circuit current kA	Weight kg
		a	b	c1	c2			
4261.08/10	19	70	50	19	19	200	30	0,52
4261.08	19	80	55	19	19	200	40	0,60

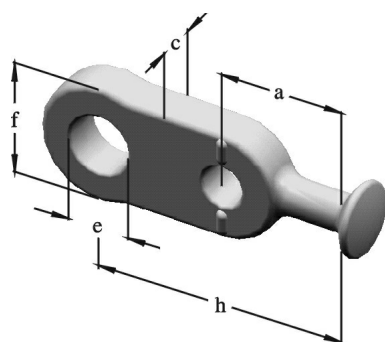


Round ball eyes short type

Material: Steel, forged, hot dip galvanised

L.-Nr.	Pin	Dimensions in mm				Breaking strength kN	Short circuit current kA	Weight kg
		a	b	c	e			
ÖNORM								
4210.15/1	11	48	20	40	13	60	6,5	0,12
4210.16/0	16	55	24	45	19	130	14,0	0,24
4210.16	16	55	24	56	16	130	14,0	0,29
IEC								
4210.15/1	11	48	20	40	13	60	6,5	0,12
4210.16/1	16	55	24	45	19	130	14,0	0,25

Ball eyes straight for arcing horn attachment



Material: Steel, forged, hot dip galvanised

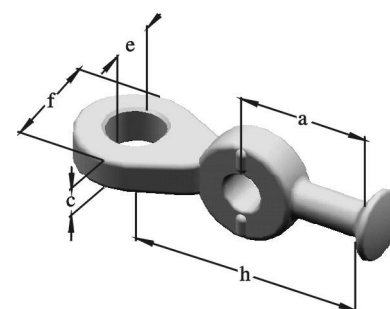
L.-Nr.	Pin	Dimensions in mm					Breaking strength kN	Short circuit current kA	Weight kg
		a	c	e	f	h			
ÖNORM									
4213.00/0	11	32	13	20	40	70	60	12	0,22
4213.01/0	16	48	19	30	54	105	130	30	0,64*
4213.011/0	16	48	19	24	54	105	130	35	0,69
4213.012/0	16	48	19	20	54	105	130	40	0,70
4213.013/0	16	48	19	26	54	105	130	35	0,66*
IEC									
4213.00/0	11	32	13	20	40	70	60	12	0,22
4213.01/2	16	45	19	30	55	104	130	30	0,67*
4213.011/1	16	45	19	24	55	104	130	40	0,72
4213.012/1	16	45	19	20	55	104	130	40	0,73
4213.013/1	16	45	19	26	55	104	130	35	0,71

* for U-bolt

Ball eyes twisted for arcing horn attachment

Material: Steel, forged, hot dip galvanised

L.-Nr.	Dimensions in mm						Breaking strength kN	Short circuit current kA	Weight kg
	Pin	a	c	e	f	h			
ÖNORM									
4213.09/0	11	32	13	20	40	70	60	12	0,20*
4213.10/0	16	48	19	30	55	110	130	30	0,64*
4213.101/0	16	48	19	24	55	110	130	30	0,64
4213.102/0	16	48	19	20	55	110	130	30	0,64
4213.103/0	16	48	19	26	55	110	130	30	0,64
IEC									
4213.09/0	11	32	13	20		70	60	12	0,20*
4213.10/1	16	45	19	30	40	104	130	30	0,62*
4213.101/1	16	45	19	24	55	104	130	40	0,64
4213.102/1	16	45	19	20	55	104	130	40	0,64
4213.103/1	16	45	19	26	55	104	130	35	0,63

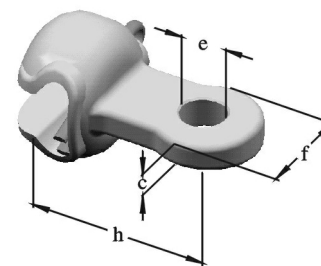


* for U-bolt.

Socket eyes

Material: Steel, forged, hot dip galvanised

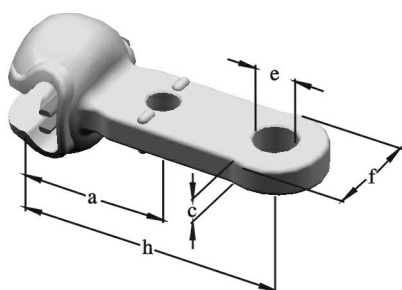
L.-Nr.	Pin	Dimensions in mm				Breaking strength kN	Short circuit current kA	Split pin	Weight kg
		c	e	f	h				
ÖNORM									
4220.01/1	11	13	14,5	40	55	60	6,5	VN 11	0,35*
4220.02/0	16	19	20,0	45	71	130	14,0	VN 16	0,67
IEC									
4220.01/1	11	13	14,5	40	55	60	6,5	VN 11	0,35*
4220.02/1	16	19	20,0	45	71	130	14,0	VN 16	0,67
4220.021/1	16	19	17,5	45	71	130	14,0	VN 16	0,68
4220.023/1	16	19	24,0	45	71	130	14,0	VN 16	0,68
4220.06/1	16	19	17,5	50	71	100	14,0	VN 16	0,72*
4220.08/1	16	19	20,0	50	71	100	14,0	VN 16	0,70*



* Malleable or ductile iron

Socket tongues straight

for arcing horn attachment

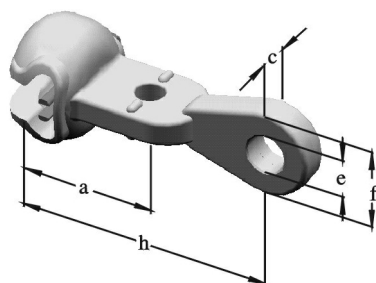


Material: Steel, forged, hot dip galvanised										
L.-Nr.	Dimensions in mm						Breaking strength kN	Short circuit current kA	Split pin	Weight kg
	Pin	a	c	e	f	h				
ÖNORM 4220.20/0	16	55	19	20	50	106	130	30	VN 16	0,87
IEC 4220.18/1	11	42	13	14	35	78	55	16	W 11	0,40
4220.20 /1	16	57	19	20	56	120	130	40	VN 16	0,87
4220.201/1	16	57	19	24	56	120	130	40	VN 16	0,87
4220.206/1	16	55	19	20	50	106	120	30	VN 16	0,83*
4220.50 /1	16	111	19	20	50	162	130	30	VN 16	1,22

* Malleable or ductile iron.

Socket tongues twisted

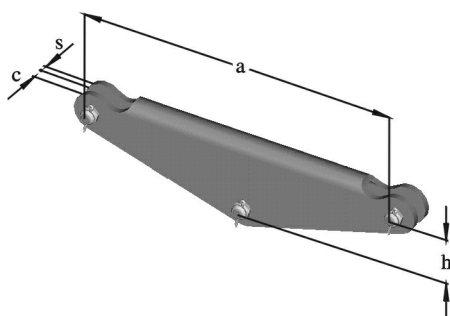
for arcing horn attachment



Material: Steel, forged, hot dip galvanised										
L.-Nr.	Dimensions in mm						Breaking strength kN	Short circuit current kA	Split pin	Weight kg
	Pin	a	c	e	f	h				
ÖNORM 4220.30/0	16	57	19	20	55	128	130	30	VN 16	1,02
IEC 4220.30/1	16	57	19	24	55	128	130	40	VN 16	1,02
4220.301/1	16	57	19	20	55	128	130	40	VN 16	1,02
4220.301/2	16	57	19	20	50	128	120	30	VN 16	1,06*
4220.40/1	16	111	19	20	55	182	130	40	VN 16	1,37

* Malleable or ductile iron.

Yoke plates



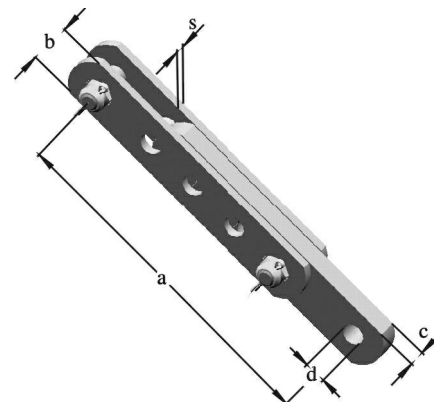
Material: Steel, hot dip galvanised								
L.-Nr.	Dimensions in mm					Breaking strength kN	Short circuit current kA	Weight kg
	Bolt	a	c	h	s			
4270.01	N 13	280	14	50	4	60	10	1,55
4270.02	N 19	280	20	50	4	60	25	1,75
4274.05	S 19	400	20	42	6	150	30	4,18

Mounting holes available on request.

Adjustable extension link

Material: Steel, hot dip galvanised

L.-Nr.	Dimensions in mm					Breaking strength kN	Short circuit current kA	Weight kg
	b x s	Bolt	a	c	d			
4266.10	40 x 6	S 19	235-340	19	24	75	15	1,95



Insulator pins

straight with round threads for suspension poles according ÖNORM E 4175

Material: Steel, hot dip galvanised

L.-Nr.	Type	for insulator	Dimensions in mm		m.f.L. kN	Weight kg
			Length	e		
1197.01	DST 10/15 G	VHD 10 G VHD 15 G	285	30/40	1,32	1,17
1197.02	DST 20 G	VHD 20 G	320	45	1,45	1,56
1197.03	DST 25 G	VHD 25 G	355	50	1,55	1,89
1197.04	DST 30 G	VHD 30 G	395	60	1,65	2,32
1197.05	DST 35 G	VHD 35 G	435	60	1,75	3,90



Insulator pins

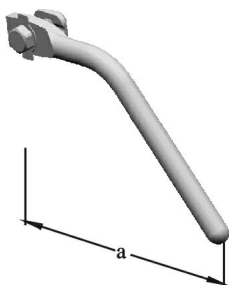
straight with round threads for angle poles according ÖNORM E 4175

Material: Steel, hot dip galvanised

L.-Nr.	Type	for insulator	Dimensions in mm		m.f.L. kN	Weight kg
			Length	e		
1196.01	DSW 10/15 G	VHD 10 G VHD 15 G	320	30/40	4,80	2,74
1196.02	DSW 20 G	VHD 20 G	355	45	4,80	2,88
1196.03	DSW 25 G	VHD 25 G	390	50	5,20	3,29
1196.04	DSW 30 G	VHD 30 G	430	60	5,50	4,00
1196.05	DSW 35 G	VHD 35 G	470	60	7,00	4,78
1196.12	DSW 20 G	VHD 20 G	375	45	4,80	2,54*



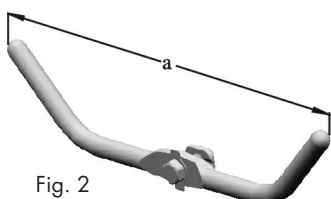
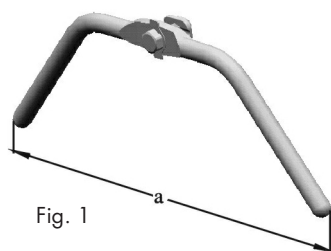
*according EVN standard.



Arcing horn for solid core insulator type M for connection according DIN 48068 pin 11

Material: Steel, hot dip galvanised					
L.-Nr.	Dimensions in mm			Short circuit current kA	Weight kg
	a	Height	Mat.-Ø		
4710	130	105	12	9	0,25

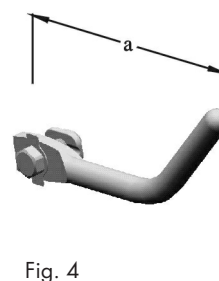
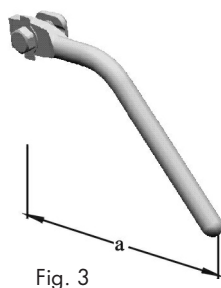
Other dimensions on request.



Arcing horns for cap and pin type insulators

Material: Steel, hot dip galvanised							
L.-Nr.	Figure	for insulators	Dimensions in mm			Short circuit current kA	Weight kg
			a	Height	Mat.- Ø		
4725.01	Figure 1	Porcellan or Glass	460	150	16	16	1,00
4725.05			500	200	16	16	1,10
4725.07			550	190	16	16	1,30
4725.02	Figure 2		460	75	16	16	1,00
4725.06			500	105	16	16	1,10
4725.08			550	82	16	16	1,20
4726.05	Figure 3		250	190	16	16	0,70
4726.07			275	170	16	16	0,80
4726.06	Figure 4		250	105	16	16	0,70
4726.08			275	82	16	16	0,70

Other dimensions on request.



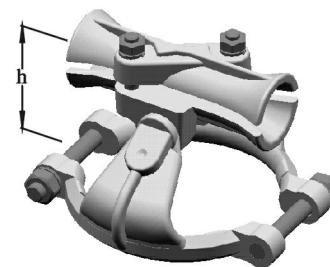
Oscillating top clamps

for aluminium-, al-alloy-, ACSR-, AACSR- and alumoweld conductors.

Oscillating top clamps are used on suspension points of medium voltage lines. Developed for undulating areas but nowadays also used in flat areas because of quick assembling.

A deflecting angle of max. 30° shall not be exceeded. In this instance special straps shall be used in connection with the oscillating top clamp.

Material: Clamp: cast-aluminium Bolts: steel, hot dip galvanised					
L.-Nr.	Type	for insulators	Dimensions in mm		Weight kg
			Cond. Ø	h	
2300.60	PK 10/II	VHD 10	9-16	57,5	0,49
2300.62	PK 20/II	VHD 20	9-16	62,5	0,53
2300.63	PK 25/II	VHD 25	9-16	67,5	0,56
2300.64	PK 30/II	VHD 30	9-16	67,5	0,56
2300.65	PK 35/II	VHD 35	9-16	70,5	0,60
2300.70	PK 10/III	VHD 10	15-20	60,0	0,59
2300.72	PK 20/III	VHD 20	15-20	65,0	0,63
2300.73	PK 25/III	VHD 25	15-20	70,0	0,66
2300.74	PK 30/III	VHD 30	15-20	70,0	0,66
2300.75	PK 35/III	VHD 35	15-20	73,0	0,70
2300.80	PKV 20/II	VKS 20/25	9-16	62,5	0,47
2300.81	PKV 30/II	VKS 30/35	9-16	67,5	0,51
2300.90	PKV 20/III	VKS 20/25	15-20	65,0	0,47
2300.91	PKV 30/III	VKS 30/35	15-20	70,0	0,50

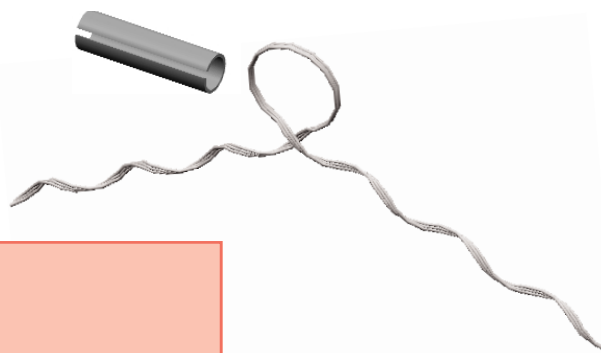


For conductors with diameters less than 9 mm aluminium-binding band shall be used.
Types for other insulators on request.

Side ties

for aluminium-, al-alloy-, ACSR-, AACSR- and alumoweld conductors.

Side ties are used for fixing the conductor to line post insulators.



Material: Rods: alumoweld gritted Sleeve: neoprene				
L.-Nr.	Cross section mm ²	for insulator	Colour code	Weight kg/100
4772.661/1	70	VHD 20	orange	15,00
4772.663/1	95	VHD 20	purple	15,10
4772.604/1	35/6	VHD 20	yellow	10,60
4772.608/1	50/8	VHD 20	white	11,60

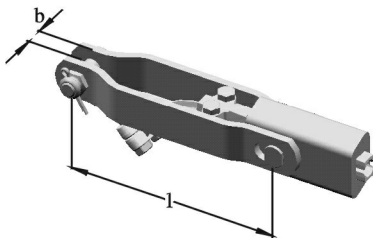
Other dimensions on request.

DOUBLE WEDGE TENSION CLAMPS

for aluminium-, al-alloy-, ACSR-, AACSR- and alumoweld conductors.

To avoid damaging the conductor which might lead to notching effects the wedges are designed without serrated grooves.

This has the advantage of permitting transfer of the clamp to another place if it is necessary.



Double wedge tension clamps with jumper connections

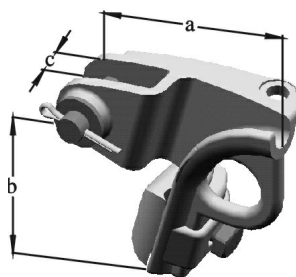
Material: Body and wedges: aluminium-alloy Trunnion: steel, hot dip galvanised Bolts and straps: steel, hot dip galvanised						
L.-Nr.	Dimensions in mm				Short circuit current kA	Weight kg
	Conductor Ø	l	b	Bolt		
4440.52/3	13,6–16,1	230	14	N13	10	2,40
4440.52/4	13,6–16,1	230	14	S 13	10	2,40
4440.53/3	13,6–16,1	230	20	N19	22	2,50
4440.53/4	13,6–16,1	230	20	S 19	22	2,50

Double wedge tension clamps without jumper connections

Material: Body and wedges: aluminium-alloy Trunnion: steel, hot dip galvanised Bolts and straps: steel, hot dip galvanised						
L.-Nr.	Dimensions in mm				Short circuit current kA	Weight kg
	Conductor Ø	l	b	Bolt		
4440.50	7,5– 9,6	150	14/20	N13	10	1,06
4440.50/4	7,5–10,0	150	20	S 19	10	1,12
4440.51	10,5–12,5	150	14/20	N13	10	1,04
4440.51/3	10,5–12,5	150	20	S 19	10	1,11
4440.52/1	13,6–16,1	230	14	N13	10	2,25
4440.52/2	13,6–16,1	230	14	S 13	10	2,25
4440.53/1	13,6–16,1	230	20	N19	22	2,35
4440.53/2	13,6–16,1	230	20	S 19	22	2,35

Bolted type tension clamps

for aluminium-, al-alloy-, ACSR-, AACSR-conductors.



Material: Body and keeper piece: aluminium-alloy Other parts: steel, hot dip galvanised							
L.-Nr.	Cross section mm²	Dimensions in mm				Torque Nm	Weight
		a	b	c	Bolt		
4435.01/1	25–132	140	85	20	N16	60	0,90

On ordering please specify the conductor.

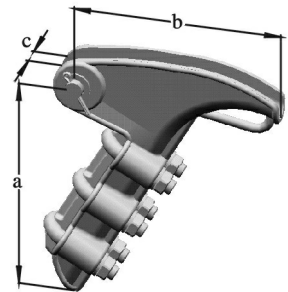
Bolted type tension clamps

for aluminium-, al-alloy-, ACSR-, AACSR-conductors

Bolted type tension clamps are used in substations and distribution lines. Consequently it is always necessary to give the exact data concerning conductor and stresses. With this clamp type the conductor can be passed onwards uncut. Fitting is extremely simple by tightening the clamp bolts to the prescribed tightening torque.

Material: Body and keeper piece: aluminium-alloy
Other parts: steel, hot dip galvanised

L.-Nr.	Dimensions in mm						Torque Nm	Short circuit current kA	Weight kg
	Cond. Ø	a	b	c	Bolt	U-Bolts			
4432.08	5,0–13,5	99	83	17	N13	2 x M 8	11	10	0,45
4432.14	9,0–16,0	155	125	23	N16	3 x M 10	22	20	0,90
4432.14/1	9,0–16,0	155	125	23	N13	3 x M 10	22	20	0,90
4432.15	13,0–20,0	250	182	27	N19	3 x M 12	38	30	2,00
4432.04/2	17,4–22,5	300	210	28	N19	3 x M 14	60	30	2,50

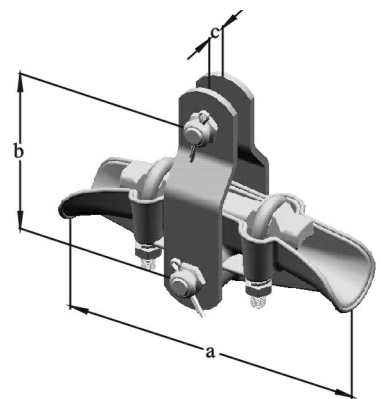


Suspension clamps

Suspension clamps are used on angle towers with larger angles. They are available in various types and can be adapted to suit requirements.

Material: Body and keeper: cast aluminium
Other parts: steel, hot dip galvanised

L.-Nr.	Dimensions in mm					Breaking strength kN	Short circuit current kA	Weight kg
	Cond. Ø	a	b	c	Connecting bolt			
4335.04	9,0–16,5	210	115	14	S 13	80	10	1,75

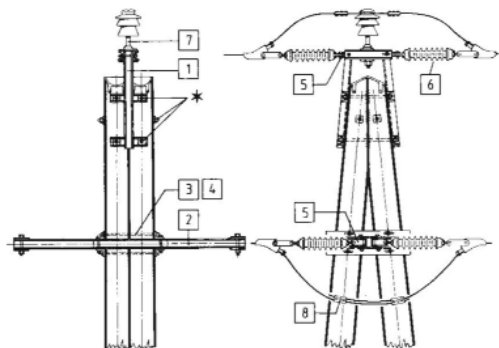


Other types see cat. part 4.

Pole equipment for medium voltage lines 10–35 kV

Assembly example

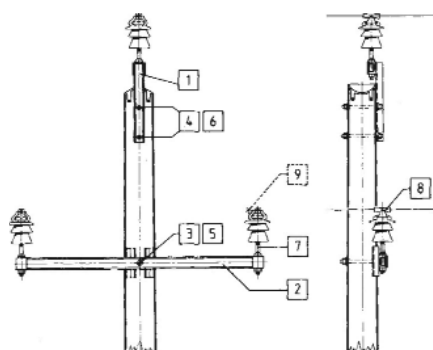
Tension pole heavy construction according Stewag Norm H 3.420:



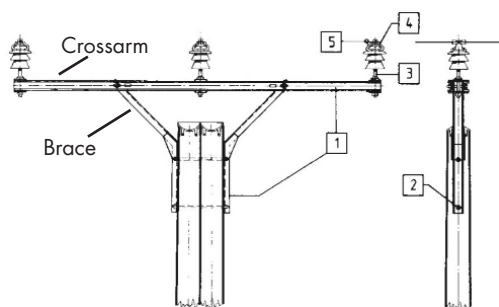
Example of a tension pole
acc. Stewag-standard H3.400

Pos.	Part	Description	L. Nr.
Pole equipment			2440.14
1	1	Insulator bracket K 321	2400.22
2	1	Cross arm Q 420	2410.222
3	4	Double arming bolt M 16 x 450	1030.17
4	8	Washer for M 16	1054.06
Insulation			
5	6	Strain hinge G 6	4140.01
6	6	Single or double tension string	
7	1	Insulator pin DSW ... G	1196.01 – 5
8	6	Parallel groove clamp	4502.10 – 13

L.-Nr.	Pole type Stewag standard	Description
2440.01	H 3.111	Single suspension pole
2440.03	H 3.121	Double suspension pole
2440.25	H 3.131	Pole with braced crossarm
2440.27	H 3.141	Double pole with braced crossarm
2440.05	H 3.311	Angle pole
2440.07	H 3.321	Angle pole heavy construction
2440.09	H 3.331	Angle pole for long spans
2440.11	H 3.341	Angle pole for long spans heavy construction
2440.13	H 3.410	Tension pole
2440.14	H 3.420	Tension pole heavy construction
2440.15	H 3.430	Tension pole for long spans
2440.16	H 3.440	Tension pole for long spans heavy construction
2440.17	H 3.450	Tension pole with cable connection
2440.18	H 3.460	Tension pole with cable connection heavy constr.
2440.19	H 3.511	Tap off pole for steep connection
2440.21	H 3.521	Tap off pole for steep connection heavy construction
2440.23	H 3.531	Tap off pole for flat connection
2440.24	H 3.541	Tap off pole for flat connection heavy construction



Example of a single suspension pole
acc. Stewag-standard H3.111

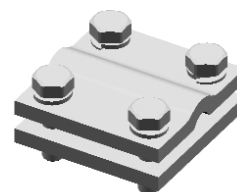


Example of a pole with braced crossarm
acc. Stewag-standard H3.131

Earthing clamps single

Material: Steel, hot dip galvanised

L.-Nr.	Fl./Rd.	Dimensions in mm			Weight kg
		Hole centres	Bolts	Mat. thickness	
4680.01	Fl 30x3; Rd 10 Ø	40	M 8	6	0,42
4680.02	Fl 40x4; Rd 10 Ø	52	M 10	8	0,75

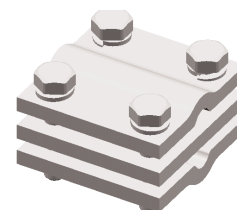


Earthing clamps double

Material: Steel, hot dip galvanised

L.-Nr.	Fl./Rd.	Dimensions in mm			Weight kg
		Distance of centres	Bolts	Mat. thickness	
4680.05	Fl 30x3; Rd 10 Ø	40	M 8	6	0,56

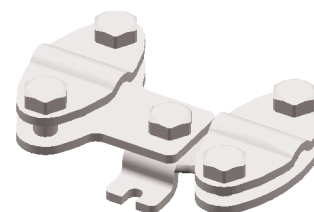
Other types on request.



Earthing clamps with connection for testing

Material: Steel, hot dip galvanised

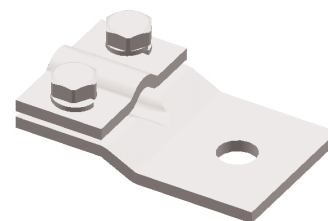
L.-Nr.	Fl./Rd.	Dimensions in mm			Weight kg
		Length	Width	Bolts	
4681.01/2	Rd 10 Ø	124	79	M 10	0,48



Cable lug

Material: Steel, hot dip galvanised

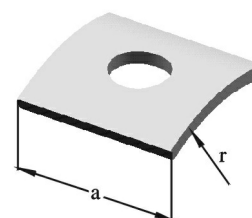
L.-Nr.	Fl./Rd.	Connecting hole	Dimensions in mm			Weight kg
			Length	Width	Bolts	
4682.01	Rd 10 Ø	13	80	50	M 8	0,20



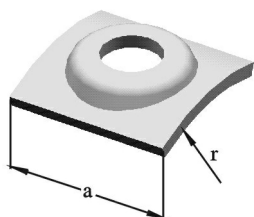
Square curved washers

Material: Steel, hot dip galvanised

L.-Nr.	for bolts	Hole	Dimensions in mm			Weight kg
			a	r	Mat. thickness	
1058.02	M 16	18	50	80	4	0,08
1058.03	M 20	22	60	80	5	0,14
1058.04	M 24	27	80	80	6	0,27



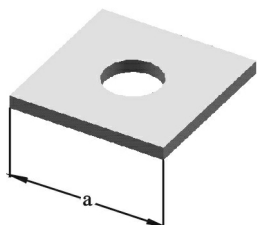
Square curved washer with flat face



Material: Steel, hot dip galvanised

L.-Nr.	for bolts	Dimensions in mm			Mat. thickness	Weight kg
		Hole	a	r		
1060.03	M24	27	80	130	8	0,38

Square washers flat

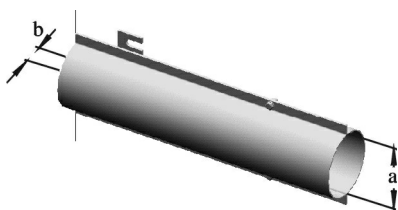


Material: Steel, hot dip galvanised

L.-Nr.	for bolts	Dimensions in mm		Mat. thickness	Weight kg
		Hole	a		
1056.01	M12	14	40	4	0,05
1056.02	M16	18	50	4	0,07
1056.03	M20	22	60	5	0,13
1056.04	M24	27	80	6	0,27

Shielding tubes for cables

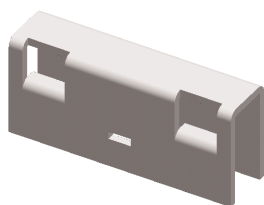
with welded connection



Material: Steel, hot dip galvanised

L.-Nr.	Type	Dimensions in mm			Weight kg
		a	b	Length	
2300.01	KR 65	65	50	3000	20,0
2300.02	KR 100	100	68	3000	28,0

Cable supports



Material: Steel, hot dip galvanised

L.-Nr.	Type	Length mm	Weight kg
2360.01	AK 1	80	0,27
2360.10	BK 1	40	0,40

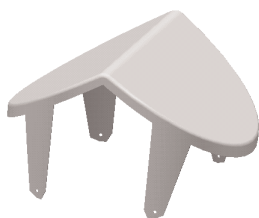
Double arming bolts

Material: Steel, hot dip galvanised			
L.-Nr.	Dimensions in mm		Weight kg
	Ø x Length	Thread length	
1030.01	M 12 x 200	50	0,19
1030.02	M 12 x 250	50	0,23
1030.12	M 16 x 200	50	0,34
1030.13	M 16 x 250	50	0,41
1030.14	M 16 x 300	70	0,48
1030.15	M 16 x 350	70	0,56
1030.16	M 16 x 400	70	0,65
1030.17	M 16 x 450	70	0,70
1030.18	M 16 x 500	70	0,77
1030.19	M 16 x 550	90	0,81
1030.20	M 16 x 600	90	0,92
1030.22	M 16 x 700	90	1,03
1030.32	M 20 x 200	50	0,56
1030.33	M 20 x 250	50	0,68
1030.34	M 20 x 300	70	0,79
1030.35	M 20 x 350	70	0,93
1030.36	M 20 x 400	70	1,02
1030.37	M 20 x 450	70	1,18
1030.38	M 20 x 500	70	1,25
1030.39	M 20 x 550	90	1,38
1030.40	M 20 x 600	90	1,54
1030.41	M 20 x 650	90	1,66
1030.42	M 20 x 700	90	1,72
1030.43	M 20 x 750	90	1,92
1030.44	M 20 x 800	90	1,95
1030.54	M 24 x 400	70	1,56
1030.55	M 24 x 450	70	1,74
1030.56	M 24 x 500	70	1,90
1030.57	M 24 x 550	90	2,07
1030.58	M 24 x 600	90	2,24
1030.59	M 24 x 650	90	2,41
1030.60	M 24 x 700	90	2,60
1030.61	M 24 x 750	90	2,77
1030.62	M 24 x 800	90	2,92
1030.64	M 24 x 900	90	3,26
1030.66	M 24 x 1000	90	3,60



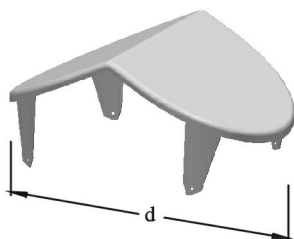
Other dimensions on request.

Pole shieldings for suspension poles



Material: Aluminium-sheet 0,6 mm				
L.-Nr.	Type	Pole dia. mm	Angle	Gewicht kg
2220.01	T 165	165	108°	0,06
2220.02	T 180	180	114°	0,07
2220.03	T 200	200	118°	0,08

Pole shieldings for A-type poles



Material: Aluminium-sheet 0,6 mm					
L.-Nr.	Type	Dimensions in mm		Angle	Weight kg
		Pole dia.	d		
2220.06	A 180	180	248	126°	0,09
2220.07	A 200	200	268	130°	0,10