

CONNECTIONCATALOGUE**2023**



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MANUFACTURER OF CONNECTION AND SAFETY MATERIAL



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Sofamel S.L. is a Spanish company dedicated to the production of electrical material of connection as well as safety and electrical protection material.

Sofamel's main objective has been to reach a high degree of specialization with the aim of providing a global solution for our clients. The same backed up by strict quality standards and by important investments in machinery and design for the manufacturing of all those products that our factory produces. This has allowed us to offer one of the most extensive ranges of articles that exists on the market.

Our commitment with excellent quality work allows our company to own the quality management system certificate under standard UNE-EN ISO 9001:2015 and R+D+i certificate under standard UNE 166002:2021, both duly granted by the Spanish Association for Standardization and Certification (AENOR).







Electrician's

index

CONNECTION 06-89

Copper connectors	08
Shear head bolt connectors	24
Aluminium connectors	29
Bimetallic connectors	34
Compression and mechanical clamps	44
Setscrew connectors	48
Crimps	51
Studded clamps	53
Terminals strips	55
Cord end terminals	56
Insulated terminals	61
ABC connectors	65
Fixings	71
Heat Shrink	75
Earthing rods and accessories	77
Connections for photovoltaic installations	82

TOOLS 90-124

Hand Tools	
Cable cutters	92
Crimping tools for non insulated terminals	95
Crimping tools for cord end terminals	101
Crimping tools for insulated terminals	104
Wire and cable strippers	106
Cable ties tensor	106
Crimp tool for solar connectors	106

Hydraulic Tools	
Hydraulic hand tools	107
Electrohydraulic tools	113
Battery operated hydraulic cutting tools	116
Food hydraulic heads	119
Adapters	124
Dies	124

Use guide for dies	125-131
---------------------------	---------

Electrician Kits - 1000V insulated tools	132-143
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ORDER NUMBER INDEX	145-150
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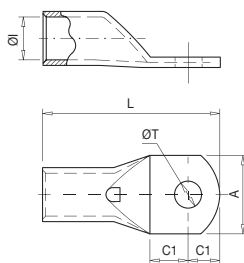
Copper connectors
Shear bolt connectors
Aluminium connectors
Bimetallic connectors
Compression and mechanical clamps
Split-bolt connectors
Setscrew connectors
Crimps
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Terminals strips
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Fixings
Heat Shrink
Earthing rods and accessories
Connections for photovoltaic installations



Connection

The right connection





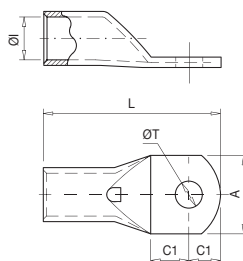
010 T

Copper cable lug

T cable lug manufactured from electrolytic copper with a tinplated finish to improve electrical contact. Incorporates inspection hole to check the correct cable positioning. According to IEC 61238-1-1 standard.



Code	Ref.	Section (mm ²)		Dimensions (mm)						Kg x 100	Bag	Box
				ØI	L	ØT	A	C1	C2			
010100	T-1,5/4	1,5	4	1,8	18,0	4,3	8,7	5,0	4,0	0,074	100	3000
010110	T-1,5/5		5		18,5	5,3	8,7	5,0	4,5	0,071	100	3000
010120	T-1,5/6		6		20,0	6,4	11,0	6,0	5,0	0,081	100	2000
010130	T-2,5/4	2,5	4	2,7	18,0	4,3	8,7	5,0	4,0	0,111	100	2000
010140	T-2,5/5		5		19,0	5,3	8,7	5,5	4,5	0,112	100	2000
010150	T-2,5/6		6		20,0	6,4	9,0	6,0	5,0	0,110	100	1800
010160	T-2,5/8		8		24,0	8,3	12,0	8,0	7,0	0,128	100	1800
010170	T-4/4	4	4	3,3	21,0	4,3	8,7	5,0	4,5	0,168	100	1600
010180	T-4/5		5		21,0	5,3	8,7	5,0	4,5	0,163	100	1600
010190	T-4/6		6		23,0	6,4	11,0	6,0	5,5	0,171	100	1600
010200	T-4/8		8		26,5	8,3	14,0	8,0	7,0	0,179	100	1200
010210	T-6/4	6	4	3,8	23,0	4,3	10,3	6,0	5,0	0,204	100	1600
010220	T-6/5		5		23,0	5,3	10,3	6,0	5,0	0,202	100	1500
010230	T-6/6		6		24,0	6,4	10,3	6,0	5,5	0,200	100	1500
010240	T-6/8		8		27,0	8,3	14,0	8,0	7,0	0,208	100	1300
010260	T-10/5	10	5	4,7	25,5	5,3	11,9	6,0	5,5	0,364	100	1000
010270	T-10/6		6		27,0	6,4	11,9	7,0	6,0	0,361	100	1000
010280	T-10/8		8		30,0	8,3	15,0	8,0	8,0	0,388	100	800
010290	T-10/10		10		34,0	10,5	18,0	10,5	9,5	0,414	100	600
010310	T-16/5	16	5	5,6	26,5	5,3	11,9	6,0	5,0	0,465	100	700
010320	T-16/6		6		28,5	6,4	11,9	7,0	6,0	0,489	100	700
010330	T-16/8		8		31,0	8,3	15,0	8,0	7,5	0,500	100	600
010340	T-16/10		10		34,5	10,5	18,0	10,0	9,0	0,524	100	500
010350	T-16/12		12		38,5	13,0	20,0	12,0	11,0	0,552	100	500
010360	T-25/6	25	6	7,1	31,0	6,4	13,8	7,0	6,0	0,700	50	450
010370	T-25/8		8		34,0	8,3	15,0	8,5	7,5	0,742	50	450
010380	T-25/10		10		39,0	10,5	18,0	11,0	10,0	0,811	50	400
010390	T-25/12		12		41,0	13,0	21,0	12,0	11,0	0,793	50	300
010410	T-35/6	35	6	8,7	34,0	6,4	15,7	7,0	6,0	1,081	50	300
010420	T-35/8		8		38,0	8,3	15,7	9,0	8,0	1,165	50	300
010430	T-35/10		10		42,0	10,5	19,0	11,0	10,0	1,221	50	200
010440	T-35/12		12		44,0	13,0	21,0	12,0	11,0	1,231	50	200
010450	T-35/14		14		48,0	14,5	21,0	14,0	13,0	1,315	50	200
010500	T-50/6	50	6	9,8	41,0	6,4	17,9	8,0	7,0	1,570	20	200
010510	T-50/8		8		43,0	8,3	17,9	9,0	8,0	1,591	20	180
010520	T-50/10		10		47,0	10,5	20,0	11,0	10,0	1,706	20	160
010530	T-50/12		12		51,0	13,0	21,0	13,0	12,0	1,746	20	160
010540	T-50/14		14		53,0	14,5	25,0	14,0	13,0	1,793	20	140
010550	T-50/16		16		55,0	16,5	26,0	15,0	14,0	1,771	20	140



010 T

Copper cable lug

T cable lug manufactured from electrolytic copper with a tinned finish to improve electrical contact. Incorporates inspection hole to check the correct cable positioning. According to IEC 61238-1-1 standard.



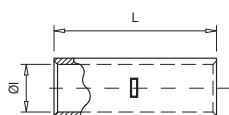
Code	Ref.	Section (mm ²)		Dimensions (mm)						Kg x 100	Bag	Box
				ØI	L	ØT	A	C1	C2			
010570	T-70/8	70	8	11,5	47,0	8,3	21,5	9,0	8,0	2,385	20	120
010580	T-70/10		10		51,0	10,5	21,5	11,0	10,0	2,510	20	120
010590	T-70/12		12		53,0	13,0	21,5	12,0	11,0	2,504	20	120
010600	T-70/14		14		58,0	14,5	25,0	15,0	13,0	2,698	20	100
010610	T-70/16		16		59,0	16,5	26,0	15,0	14,0	2,617	20	100
010630	T-95/8	95	8	13,5	52,0	8,3	24,7	10,0	9,0	3,354	20	80
010640	T-95/10		10		55,0	10,5	24,7	11,0	11,0	3,387	20	80
010650	T-95/12		12		57,0	13,0	24,7	12,0	12,0	3,468	20	80
010660	T-95/14		14		61,0	14,5	24,7	15,0	13,0	3,622	20	80
010670	T-95/16		16		64,0	16,5	27,0	16,0	15,0	3,690	20	80
010690	T-120/8	120	8	15,6	56,0	8,3	28,9	10,0	9,0	5,357	10	60
010700	T-120/10		10		58,0	10,5	28,9	11,0	10,0	5,452	10	60
010710	T-120/12		12		63,0	13,0	28,9	14,0	12,0	5,800	10	60
010720	T-120/14		14		67,0	14,5	28,9	16,0	14,0	6,068	10	60
010730	T-120/16		16		71,0	16,5	28,9	17,0	16,0	6,296	10	60
010750	T-150/10	150	10	16,5	69,0	10,5	30,4	13,0	11,0	7,125	10	50
010760	T-150/12		12		75,0	13,0	30,4	16,0	14,0	7,749	10	50
010770	T-150/14		14		79,0	14,5	30,4	18,0	16,0	7,891	10	50
010780	T-150/16		16		79,0	16,5	30,4	18,0	16,0	7,694	10	40
010800	T-185/10	185	10	18,8	74,0	10,5	34,0	13,0	11,0	9,842	10	40
010810	T-185/12		12		80,0	13,0	34,0	16,0	14,0	10,447	10	40
010820	T-185/14		14		84,0	14,5	34,0	18,0	16,0	10,991	10	40
010830	T-185/16		16		85,0	16,5	34,0	18,0	17,0	10,831	10	40
010850	T-240/10	240	10	21,2	82,0	10,5	38,4	14,0	12,0	12,466	5	25
010860	T-240/12		12		86,0	13,0	38,4	16,0	14,0	12,916	5	25
010870	T-240/14		14		90,0	14,5	38,4	18,0	16,0	13,352	5	25
010880	T-240/16		16		91,0	16,5	38,4	18,0	17,0	13,198	5	25
010900	T-300/12	300	12	23,4	93,0	13,0	41,7	16,0	14,0	15,780	5	15
010910	T-300/14		14		94,0	14,5	41,7	16,0	15,0	17,249	5	15
010920	T-300/16		16		100,0	16,5	41,7	19,0	18,0	18,161	5	15
010940	T-400/12*	400	12	26,8	110,0	13,0	47,8	21,0	19,0	24,560	5	10
010950	T-400/16*		16		110,0	16,5	47,8	21,0	19,0	24,246	5	10
010960	T-400/20*		20		116,0	21,0	47,8	24,0	22,0	25,010	5	10
010980	T-500/16*	500	16	29,8	115,0	16,5	54,8	22,0	19,0	42,990	1	9
010985	T-500/20*		20		120,0	21,0	54,8	24,0	22,0	46,702	1	9
010988	T-630/16*	630	16	34,5	128,0	16,5	64,4	22,0	19,0	66,260	1	5
010990	T-630/20*		20		134,0	21,0	64,4	24,0	23,0	68,680	1	5

*Not according to UL certificate.

Copper Connectors

Connection

CONNECTION CATALOGUE 2023



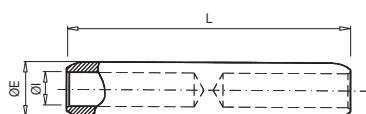
015 M

Copper butt-connector

M copper butt-connector manufactured from electrolytic copper with a tinplated finish to improve electrical contact. Incorporates a central stop which facilitates the correct cable positioning.

According to IEC 61238-1-1 standard.

Code	Ref.	Section (mm²)	Dimensions (mm)		Kg x 100	Bag	Box
			ØI	L			
015100	M-1,5	1,5	1,8	15,0	0,072	100	5000
015110	M-2,5	2,5	2,7	15,0	0,109	100	3500
015120	M-4	4	3,3	22,0	0,204	100	1600
015130	M-6	6	3,8	22,0	0,227	100	1300
015140	M-10	10	4,7	25,0	0,397	100	800
015150	M-16	16	5,6	27,0	0,516	100	600
015160	M-25	25	7,1	29,0	0,730	50	400
015170	M-35	35	8,7	33,0	1,127	50	250
015190	M-50	50	9,8	35,0	1,434	20	200
015200	M-70	70	11,5	39,0	2,149	20	120
015210	M-95	95	13,5	43,0	2,906	20	80
015220	M-120	120	15,6	47,0	4,730	10	60
015230	M-150	150	16,5	58,0	6,375	10	50
015240	M-185	185	18,9	64,0	8,929	10	40
015250	M-240	240	21,2	75,0	11,834	5	30
015260	M-300	300	23,4	90,0	16,082	5	15
015270	M-400	400	26,8	90,0	20,998	5	10
015280	M-500	500	29,8	98,0	40,235	1	5
015290	M-630	630	34,5	105,0	64,730	1	1



017 RJU

Medium voltage copper joint

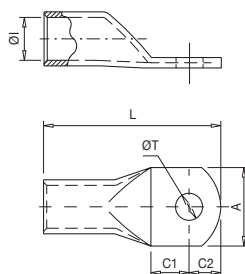
The medium voltage copper joint RJU manufactured from electrolytic copper bar. Incorporates a central stop which facilitates the correct cable positioning.

Code	Ref.	Section (mm²)	Dimensions (mm)			Kg x 100	Bag	Box
			ØE	ØI	L			
017160	RJU0-25	25	20	7,5	95	23,28	1	25
017170	RJU0-35	35	20	8,5	95	22,32	1	25
017180	RJU1-50	50	20	9,5	95	21,23	1	25
017190	RJU1-70	70	20	11	95	19,37	1	25
017200	RJU1-95	95	20	13	95	16,48	1	25
017210	RJU2-120	120	20	14,2	95	14,51	1	25
017220	RJU2-150	150	25	16	102	27,51	1	15
017230	RJU4-185	185	25	18	102	22,92	1	15
017240	RJU4-240	240	32	20	105	48,53	1	10

Copper Connectors

Connection

CONNECTION CATALOGUE 2023



006 TL

Copper cable lug long barrel

TL cable lug manufactured from electrolytic copper with a tinplated finish to improve electrical contact.

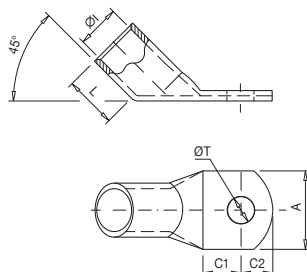
The larger length of the barrel guarantees a better electrical connection in unfavorable conditions.
According to IEC 61238-1-1 standard.

Code	Ref.	Section (mm²)		Dimensions (mm)						Kg x 100	Bag	Box
				ØI	L	ØT	A	C1	C2			
006270	TL-10/6	10	6	4,7	35	6,4	11,9	7,0	6,0	0,492	100	600
006280	TL-10/8		8		38	8,3	15,0	8,0	8,0	0,513	100	600
006320	TL-16/6	16	6	5,6	39	6,4	11,9	7,0	6,0	0,685	100	400
006330	TL-16/8		8		41,5	8,3	15,0	8,0	7,5	0,691	100	400
006370	TL-25/8	25	8	7,1	50	8,3	15,0	8,5	7,5	1,128	50	250
006380	TL-25/10		10		55	10,5	18,0	11,0	10,0	1,193	50	200
006420	TL-35/8	35	8	8,7	53	8,3	15,7	9,0	8,0	1,685	50	150
006430	TL-35/10		10		57	10,5	19,0	11,0	10,0	1,765	50	150
006520	TL-50/10	50	10	9,8	63	10,5	20,0	11,0	10,0	2,372	20	120
006530	TL-50/12		12		67	13,0	21,0	13,0	12,0	2,402	20	100
006580	TL-70/10	70	10	11,5	69	10,5	21,5	11,0	10,0	3,600	10	40
006590	TL-70/12		12		71	13,0	21,5	12,0	11,0	3,561	10	40
006650	TL-95/12	95	12	13,5	79	13,0	24,7	12,0	12,0	5,260	10	40
006660	TL-95/14		14		83	14,5	24,7	15,0	13,0	5,137	10	40
006670	TL-95/16		16		86	16,5	27,0	16,0	15,0	5,191	10	40
006710	TL-120/12	120	12	15,6	87	13,0	28,9	14,0	12,0	8,231	10	30
006720	TL-120/14		14		91	14,5	28,9	16,0	14,0	8,630	10	30
006730	TL-120/16		16		95	16,5	28,9	17,0	16,0	8,834	10	30
006760	TL-150/12	150	12	16,5	99	13,0	30,4	16,0	14,0	10,243	10	30
006770	TL-150/14		14		103	14,5	30,4	18,0	16,0	10,290	10	30
006780	TL-150/16		16		103	16,5	30,4	18,0	16,0	10,423	10	30
006810	TL-185/12	185	12	18,8	108	13,0	34,0	16,0	14,0	14,417	10	20
006820	TL-185/14		14		112	14,5	34,0	18,0	16,0	14,891	10	20
006830	TL-185/16		16		113	16,5	34,0	18,0	17,0	14,746	10	20
006860	TL-240/12	240	12	21,2	114	13,0	38,4	16,0	14,0	17,324	5	15
006870	TL-240/14		14		118	14,5	38,4	18,0	16,0	17,978	5	15
006880	TL-240/16		16		119	16,5	38,4	18,0	17,0	17,914	5	15
006920	TL-300/16	300	16	23,4	132	16,5	41,7	19,0	18,0	22,698	6	12
006950	TL-400/16	400	16	26,8	140	16,5	47,8	21,0	19,0	32,130	4	8
006980	TL-500/16	500	16	29,8	143	16,5	54,8	22,0	19,0	53,430	1	7
006985	TL-630/16	630	16	34,5	155	16,5	64,4	22,0	19,0	85,713	1	3

Copper Connectors

Connection

CONNECTION CATALOGUE 2023



007 T45°

Copper cable lug 45°

T45° cable lug manufactured from electrolytic copper with a tinplated finish to electrical contact. Its particular orientation makes it suitable for installations where connection needs a specific placement.

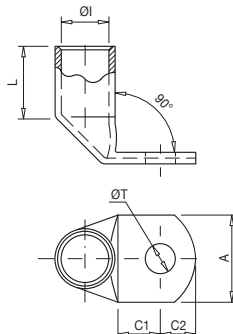
According to IEC 61238-1-1 standard.

Code	Ref.	Section (mm ²)		Dimensions (mm)						Kg x 100	Bag	Box
				ØI	L	ØT	A	C1	C2			
007270	T45-10/6	10	6	4,7	10	6,4	11,9	7,0	6,0	0,391	100	800
007280	T45-10/8		8			8,3	15,0	8,0	8,0	0,400	100	800
007320	T45-16/6	16	6	5,6	11	6,4	11,9	7,0	6,0	0,518	100	600
007330	T45-16/8		8			8,3	15,0	8,0	7,5	0,527	100	600
007370	T45-25/8	25	8	7,1	13	8,3	15,0	8,5	7,5	0,731	50	350
007380	T45-25/10		10			10,5	18,0	11,0	10,0	0,803	50	350
007420	T45-35/8	35	8	8,7	16	8,3	15,7	9,0	8,0	1,157	50	250
007430	T45-35/10		10			10,5	19,0	11,0	10,0	1,219	50	200
007520	T45-50/10	50	10	9,8	19	10,5	20,0	11,0	10,0	1,822	20	120
007530	T45-50/12		12			13,0	21,0	13,0	12,0	1,768	20	120
007580	T45-70/10	70	10	11,5	21	10,5	21,5	11,0	10,0	2,470	20	100
007590	T45-70/12		12			13,0	21,5	12,0	11,0	2,514	20	100
007660	T45-95/14	95	14	13,5	24	14,5	24,7	15,0	13,0	3,606	20	60
007670	T45-95/16		16			16,5	27,0	16,0	15,0	3,619	20	60
007720	T45-120/14	120	14	15,6	28	14,5	28,9	16,0	14,0	5,948	10	50
007730	T45-120/16		16			16,5	28,9	17,0	16,0	6,260	10	40
007770	T45-150/14	150	14	16,5	32	14,5	30,4	16,0	16,0	7,814	10	40
007780	T45-150/16		16			16,5	30,4	18,0	16,0	7,618	10	30
007830	T45-185/16	185	16	18,8	34	16,5	34,0	18,0	17,0	10,540	10	20
007880	T45-240/16	240	16	21,2	38	16,5	38,4	18,0	17,0	13,126	5	20

Copper Connectors

Connection

CONNECTION CATALOGUE 2023

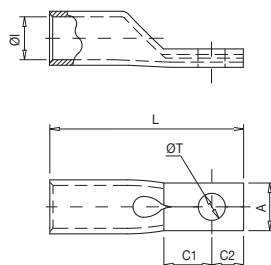


008 T90°

Copper cable lug 90°

T90° cable lug manufactured from electrolytic copper with a tinplated finish to improve electrical contact. Its particular orientation makes it suitable for installations where connection needs a specific placement. According to IEC 61238-1-1 standard.

Code	Ref.	Section (mm ²)		Dimensions (mm)						Kg x 100	Bag	Box
				ØI	L	ØT	A	C1	C2			
008270	T90-10/6	10	6	4,7	10	6,4	11,9	7,0	6,0	0,374	100	800
008280	T90-10/8		8			8,3	15,0	8,0	8,0	0,396	100	700
008290	T90-10/10		10			10,5	18,0	11,0	10,0	0,444	100	100
008320	T90-16/6	16	6	5,6	11	6,4	11,9	7,0	6,0	0,500	100	600
008330	T90-16/8		8			8,3	15,0	8,0	7,5	0,509	100	600
008370	T90-25/8	25	8	7,1	13	8,3	15,0	8,5	7,5	0,768	50	300
008380	T90-25/10		10			10,5	18,0	11,0	10,0	0,813	50	300
008420	T90-35/8	35	8	8,7	16	8,3	15,7	9,0	8,0	1,295	50	250
008430	T90-35/10		10			10,5	19,0	11,0	10,0	1,157	50	200
008520	T90-50/10	50	10	9,8	19	10,5	20,0	11,0	10,0	1,788	20	160
008530	T90-50/12		12			13,0	21,0	13,0	12,0	1,983	20	160
008580	T90-70/10	70	10	11,5	21	10,5	21,5	11,0	10,0	2,586	20	100
008590	T90-70/12		12			13,0	21,5	12,0	11,0	2,614	20	100
008660	T90-95/14	95	14	13,5	24	14,5	24,7	15,0	13,0	3,737	20	60
008670	T90-95/16		16			16,5	27,0	16,0	15,0	3,730	20	60
008720	T90-120/14	120	14	15,6	28	14,5	28,9	16,0	14,0	6,350	10	30
008730	T90-120/16		16			16,5	28,9	17,0	16,0	6,508	10	30
008770	T90-150/14	150	14	16,5	32	14,5	30,4	18,0	16,0	8,000	10	30
008780	T90-150/16		16			16,5	30,4	18,0	16,0	7,860	10	30
008830	T90-185/16	185	16	18,8	34	16,5	34,0	18,0	17,0	10,850	10	20
008880	T90-240/16	240	16	21,2	38	16,5	38,4	18,0	17,0	13,630	5	15

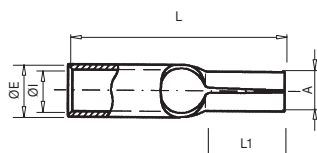


032 TPE

Copper cable lug narrow palm

TPE cable lug manufactured from electrolytic copper with a tinplated finish to improve electrical contact. The narrow palm design makes it suitable for reduced spaces. According to IEC 61238-1-1 standard.

Code	Ref.	Section (mm ²)		Dimensions (mm)						Kg x 100	Bag	Box
				ØI	L	ØT	A	C1	C2			
032124	TPE-50/6	50	6	9,8	50,0	6,4	15,0	10,0	8,0	1,873	20	160
032125	TPE-50/8		8			8,5				1,826	20	160
032126	TPE-50/10		10			10,5				1,724	20	160
032130	TPE-70/6	70	6	11,5	55,0	6,4	15,0	12,0	8,0	2,881	20	100
032131	TPE-70/8		8			8,5				2,800	20	100
032132	TPE-70/10		10			10,5				2,730	20	100
032140	TPE-95/8	95	8	13,5	60,0	8,5	15,0	11,0	10,0	3,739	20	80
032145	TPE-95/10		10			10,5				3,763	20	80
032149	TPE-120/8	120	8	15,6	65,0	8,5	21,0	10,0	11,0	6,186	10	60
032150	TPE-120/10		10			10,5				6,105	10	60
032155	TPE-150/8	150	8	16,5	72,0	8,5	21,0	13,0	12,0	8,112	10	40
032160	TPE-150/10		10			10,5				7,284	10	40
032161	TPE-150/12		12			12,5				7,178	10	40
032170	TPE-185/10	185	10	18,9	75,0	10,5	26,0	13,0	12,0	9,710	10	30
032171	TPE-185/12		12			12,5				9,570	10	30
032180	TPE-240/10	240	10	21,2	85,0	10,5	26,0	13,0	12,0	12,772	5	25
032181	TPE-240/12		12			12,5				12,584	5	25

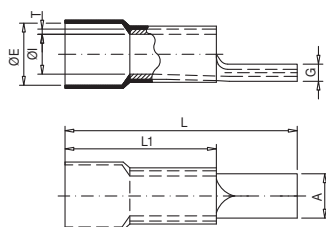


025 CP

Pin terminal

CP pin terminal manufactured from electrolytic copper with a tinplated finish to improve electrical contact. Its design makes it suitable for those applications of the conductor to the clamp.

Code	Ref.	Section (mm ²)		Dimensions (mm)					Kg x 100	Bag	Box
				ØE	ØI	L	A	L1			
025130	CP-10	10	10	6,8	4,7	25,0	5,0	12,0	0,423	100	1000
025140	CP-16		16	7,8	5,6	31,0	6,0	15,0	0,573	100	800
025150	CP-25		25	9,4	7,1	34,0	7,0	18,0	0,829	100	500
025160	CP-35	35	35	11,3	8,7	42,0	9,0	18,0	1,420	100	300
025170	CP-50		50	12,6	9,8	46,0	10,0	21,0	1,849	50	200



025 CPP

Connection tip isolated

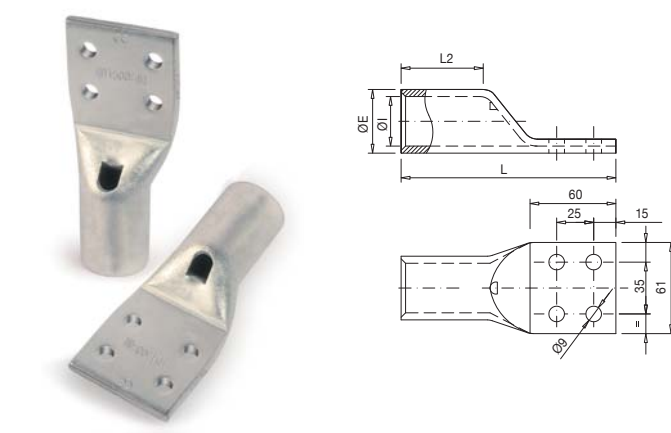
CPP connectors are made from electrolytic copper pipe with a tinplated finish for improved electrical contact. The design facilitates connection of the cable lugs in the terminals.

The shape of the cable end facilitates cable insertion. The insulation provides an additional layer of protection.



Code	Ref.	Section (mm ²)	Dimensions (mm)							Kg x 100	Bag	Box
			ØE	ØI	L	L1	G	A	T			
025180	CPP-10	10	9,0	4,5	29,5	15,5	2,4	4,3	1,1	0,290	100	600
025190	CPP-16	16	10,5	5,9	35,0	19,0	2,6	5,5	1,2	0,470	100	300
025200	CPP-25	25	11,5	7,0	44,5	24,5	2,6	6,8	1,2	0,750	100	200
025210	CPP-35	35	14,0	8,7	54,0	29,5	3,2	8,0	1,5	1,320	50	150
025220	CPP-50	50	15,8	9,8	61,0	35,0	3,8	9,5	1,8	2,040	50	100
025230	CPP-70	70	18,0	11,6	75,0	44,0	4,2	11,0	2,0	3,310	25	50
025240	CPP-95	95	21,6	13,5	75,0	44,0	5,2	12,5	2,5	4,740	20	40



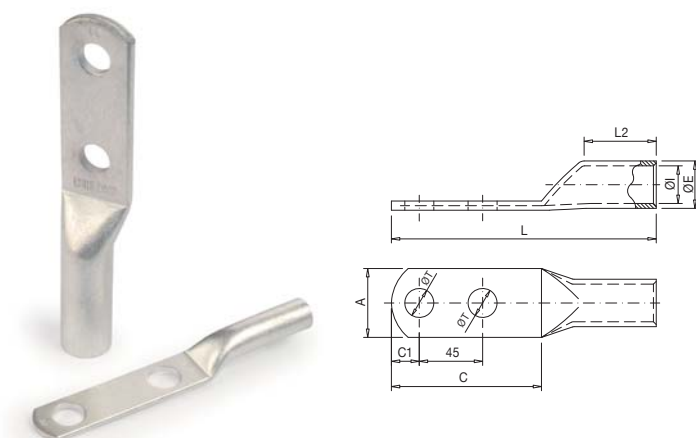


001 T4H

Copper cable lug with 4 holes palm

Copper cable lug with 4 holes palm manufactured from electrolytic copper with a tinplated finish to improve electrical contact.

Code	Ref.	Section (mm ²)	Dimensions (mm)				Kg x 100	Bag	Box
			ØE	ØI	L	L2			
001100	T-185/4H	185	23,7	18,8	124,0	46,0	14,924	1	30
001110	T-240/4H	240	26,2	21,2	128,0	48,0	17,328	1	15
001120	T-300/4H	300	28,6	23,4	133,0	50,0	21,280	1	15
001130	T-400/4H	400	32,8	26,8	134,0	50,0	28,570	1	10
001140	T-500/4H	500	38,4	29,8	139,0	54,0	51,860	1	8
001150	T-630/4H	630	44,7	34,5	145,0	60,0	76,075	1	4
001160	T-800/4H	800	52,0	40,0	160,0	70,0	115,175	1	3

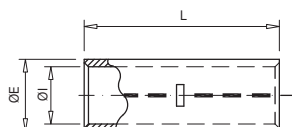


002 TDT

Copper cable lug with 2 holes palm

Copper cable lug with 2 holes palm manufactured from electrolytic copper with a tinplated finish to improve electrical contact.

Code	Ref.	Section (mm ²)	Dimensions (mm)								Kg x 100	Bag	Box
			ØE	ØI	L	ØT	A	L2	C1	C			
002530	TDT-50/12	50	14,0	11,0	130,0	13,0	20,5	40,0	14,5	75,0	5,757	30	60
002590	TDT-70/12	70	15,0	12,0	130,0	13,0	21,4	40,0	17,0	80,0	6,365	30	60
002650	TDT-95/12	95	18,0	14,0	132,0	13,0	26,0	42,0	17,0	80,0	10,676	10	30
002710	TDT-120/12	120	20,0	16,0	135,0	13,0	29,0	42,0	17,0	80,0	11,952	10	30
002760	TDT-150/12	150	22,0	17,0	150,0	13,0	31,5	50,0	17,0	80,0	18,350	5	25
002810	TDT-185/12	185	23,0	18,2	150,0	13,0	33,0	50,0	17,0	80,0	18,678	5	20
002860	TDT-240/16	240	28,0	22,0	150,0	17,0	40,0	50,0	17,0	80,0	27,072	5	15
002900	TDT-300/16	300	32,0	25,0	180,0	17,0	46,0	68,0	21,5	89,0	44,516	6	12
002940	TDT-400/16	400	37,0	30,0	180,0	17,0	54,0	60,0	22,0	90,0	55,198	2	8
002980	TDT-500/16	500	40,0	31,0	180,0	17,0	57,5	60,0	23,5	93,0	72,520	2	8



004 MCD

DIN 46267 copper butt-connector

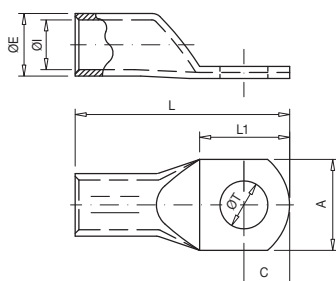
MCD butt-connector manufactured from electrolytic copper with a tinplated finish to improve electrical contact. According to DIN 46267.

Code	Ref.	Section (mm ²)	Dimensions (mm)			 x 100	 Bag	 Box
			ØE	ØI	L			
004130	MCD-6	6	5,5	3,8	30	0,317	100	1000
004140	MCD-10	10	6,0	4,5	30	0,320	100	700
004150	MCD-16	16	8,5	5,5	50	1,387	100	200
004160	MCD-25	25	10,0	7,0	50	1,683	50	150
004170	MCD-35	35	12,5	8,2	50	2,988	20	120
004190	MCD-50	50	14,5	10,0	56	4,073	20	80
004200	MCD-70	70	16,5	11,5	56	5,169	20	60
004210	MCD-95	95	19,0	13,5	70	8,157	10	40
004220	MCD-120	120	21,0	15,5	70	8,231	10	40
004230	MCD-150	150	23,5	17,0	80	13,810	10	30
004240	MCD-185	185	25,5	19,0	85	16,332	5	25
004250	MCD-240	240	29,0	21,5	90	22,368	5	15
004260	MCD-300	300	32,0	24,5	100	27,634	5	10
004270	MCD-400	400	38,5	27,5	150	73,500	2	6
004280	MCD-500	500	42,0	31,0	160	86,740	1	2
004290	MCD-625	625	44,0	34,5	160	79,900	1	2
004300	MCD-800	800	52,0	40,0	200	151,616	1	8
004310	MCD-1000	1000	58,0	44,0	200	197,510	1	8

Copper Connectors

Connection

CONNECTION CATALOGUE 2023



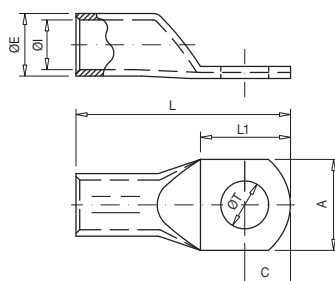
005 TCD

DIN 46235 copper cable lug

TCD cable lug manufactured from electrolytic copper with a tinplated finish to improve electrical contact. According to DIN 46235.



Code	Ref.	Section (mm ²)		Dimensions (mm)							Kg x 100	Bag	Box
				ØE	ØI	L	ØT	A	L1	C			
005220	TCD-6/5	6	5	5,5	3,8	33,0	5,3	8,5	15,0	8,0	0,319	100	1000
005230	TCD-6/6		6			34,5	6,4	8,5	18,5	9,5	0,317	100	1000
005240	TCD-6/8		8			37,0	8,4	13,0	23,0	12,0	0,322	100	800
005260	TCD-10/5	10	5	6,0	4,5	36,0	5,3	9,0	15,0	8,0	0,353	100	700
005270	TCD-10/6		6			37,5	6,4	9,0	19,5	9,5	0,350	100	700
005280	TCD-10/8		8			40,0	8,4	13,0	21,0	11,0	0,354	100	600
005320	TCD-16/6	16	6	8,5	5,5	46,5	6,4	13,0	18,5	9,5	1,194	50	250
005330	TCD-16/8		8			49,0	8,4	13,0	23,0	12,0	1,206	50	250
005340	TCD-16/10		10			51,0	10,5	17,0	27,0	14,0	1,210	50	250
005350	TCD-16/12		12			53,0	13,0	17,0	29,0	15,0	1,889	50	200
005360	TCD-25/6	25	6	10,0	7,0	48,5	6,4	14,0	18,5	9,5	1,520	50	200
005370	TCD-25/8		8			51,0	8,4	16,0	23,0	12,0	1,551	50	200
005380	TCD-25/10		10			53,0	10,5	17,0	27,0	14,0	1,543	50	200
005390	TCD-25/12		12			54,0	13,0	19,0	29,0	15,0	1,490	50	200
005410	TCD-35/6	35	6	12,5	8,2	55,0	6,4	17,5	23,0	12,0	3,070	20	140
005420	TCD-35/8		8			55,0	8,4	17,5	23,0	12,0	3,010	20	120
005430	TCD-35/10		10			57,0	10,5	19,0	27,0	14,0	2,997	20	120
005440	TCD-35/12		12			58,0	13,0	21,0	29,0	15,0	2,959	20	120
005450	TCD-35/14		14			58,0	15,0	21,0	29,0	15,0	2,806	20	120
005510	TCD-50/8	50	8	14,5	10,0	65,0	8,4	20,0	23,0	12,0	4,498	20	100
005520	TCD-50/10		10			67,0	10,5	22,0	27,0	14,0	4,497	20	100
005530	TCD-50/12		12			68,0	13,0	24,0	29,0	15,0	4,403	20	100
005540	TCD-50/14		14			71,0	15,0	28,0	35,0	18,0	4,455	20	100
005550	TCD-50/16		16			71,0	17,0	28,0	35,0	18,0	4,297	20	80
005570	TCD-70/8	70	8	16,5	11,5	68,0	8,4	24,0	23,0	12,0	5,992	20	60
005580	TCD-70/10		10			70,0	10,5	24,0	27,0	14,0	6,029	20	60
005590	TCD-70/12		12			71,0	13,0	24,0	27,0	14,0	6,065	20	60
005600	TCD-70/14		14			74,0	15,0	30,0	35,0	18,0	5,972	20	60
005610	TCD-70/16		16			74,0	17,0	30,0	35,0	18,0	5,842	20	60
005630	TCD-95/8	95	8	19,0	13,5	77,0	8,4	28,0	24,0	12,0	8,918	10	40
005640	TCD-95/10		10			77,0	10,5	28,0	24,0	12,0	8,470	10	40
005650	TCD-95/12		12			78,0	13,0	28,0	26,0	13,0	8,373	10	40
005660	TCD-95/14		14			79,5	15,0	32,0	29,0	14,5	8,357	10	40
005670	TCD-95/16		16			81,0	17,0	32,0	32,0	16,0	8,596	10	40



005 TCD

DIN 46235 copper cable lug

TCD cable lug manufactured from electrolytic copper with a tinplated finish to improve electrical contact. According to DIN 46235.



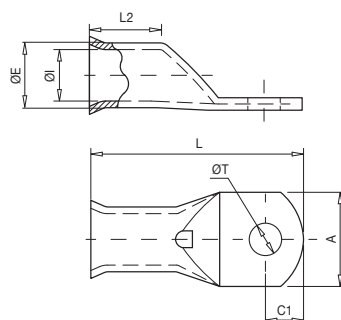
Code	Ref.	Section (mm²)		Dimensions (mm)						 x 100	 Bag	 Box	
				ØE	ØI	L	ØT	A	L1				C
005700	TCD-120/10	120	10	21,0	15,5	85,0	10,5	30,0	27,0	14,0	10,728	10	30
005710	TCD-120/12		12			86,0	13,0	30,0	29,0	15,0	10,436	10	30
005720	TCD-120/14		14			88,0	15,0	30,0	31,0	16,0	10,820	10	30
005730	TCD-120/16		16			89,0	17,0	30,0	35,0	18,0	10,650	10	30
005740	TCD-120/20		20			92,0	21,0	38,0	42,0	21,0	10,627	10	30
005750	TCD-150/10	150	10	23,5	17,0	93,0	10,5	34,0	27,0	14,0	15,554	10	20
005760	TCD-150/12		12			94,0	13,0	34,0	29,0	15,0	13,374	10	20
005770	TCD-150/14		14			96,0	15,0	34,0	31,0	16,0	15,514	10	20
005780	TCD-150/16		16			97,0	17,0	34,0	35,0	18,0	15,436	10	20
005790	TCD-150/20		20			100,0	21,0	40,0	42,0	21,0	15,269	10	20
005800	TCD-185/10	185	10	25,5	19,0	97,0	10,5	37,0	27,0	14,0	18,228	10	20
005810	TCD-185/12		12			98,0	13,0	37,0	29,0	15,0	18,167	10	20
005820	TCD-185/14		14			100,0	15,0	37,0	31,0	16,0	17,852	10	20
005830	TCD-185/16		16			101,0	17,0	37,0	35,0	18,0	18,227	10	20
005840	TCD-185/20		20			104,0	21,0	40,0	42,0	21,0	17,732	10	20
005860	TCD-240/12	240	12	29,0	21,5	108,0	13,0	42,0	29,0	15,0	25,766	5	10
005870	TCD-240/14		14			110,0	15,0	42,0	31,0	16,0	25,780	5	10
005880	TCD-240/16		16			111,0	17,0	42,0	35,0	18,0	26,587	5	10
005890	TCD-240/20		20			114,0	21,0	45,0	42,0	21,0	25,808	5	10
005910	TCD-300/14	300	14	32,0	24,5	117,0	15,0	48,0	33,0	17,0	31,931	5	10
005920	TCD-300/16		16			119,0	17,0	48,0	35,0	18,0	31,472	5	10
005930	TCD-300/20		20			122,0	21,0	48,0	42,0	21,0	31,490	5	10
005945	TCD-400/14*	400	14	38,5	27,5	140,0	15,0	55,0	45,0	24,0	60,955	2	4
005950	TCD-400/16*		16			140,0	17,0	55,0	45,0	24,0	53,380	2	4
005960	TCD-400/20*		20			140,0	21,0	55,0	45,0	24,0	64,515	2	4
005980	TCD-500/16*	500	16	42,0	31,0	150,0	17,0	60,0	45,0	24,0	78,187	1	4
005981	TCD-500/20*		20			150,0	21,0	60,0	45,0	24,0	77,060	1	4
005988	TCD-625/16*	625	16	44,0	34,5	160,0	17,0	64,0	45,0	24,0	77,880	1	3
005990	TCD-625/20*		20			160,0	21,0	64,0	45,0	24,0	76,670	1	3
005994	TCD-800/16*	800	16	52,0	40,0	190,0	17,0	75,0	45,0	24,0	142,020	1	10
005995	TCD-800/20*		20			190,0	21,0	75,0	45,0	24,0	140,850	1	10
005998	TCD-1000/16*	1000	16	58,0	44,0	190,0	17,0	84,0	45,0	24,0	186,090	1	10
005999	TCD-1000/20*		20			190,0	21,0	84,0	45,0	24,0	185,790	1	10

*Not comply with UL certificate.

Copper Connectors

Connection

CONNECTION CATALOGUE 2023



009 TT

NF C20-130 Tulip copper cable lug

TT cable lug manufactured from electrolytic copper with a tinplated finish to improve electrical contact.

The tulip shape at the end of the barrel favours the introduction of the cable.

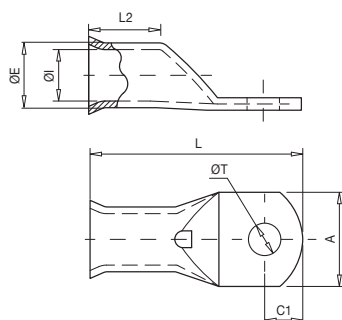
Electric test according to CEI 61238-1 standard.

Code	Ref.	Section (mm ²)		Dimensions (mm)							Kg x 100	Bag	Box
				ØE	ØI	L	ØT	A	C1	L2			
009120	TT-2,5/3	2,5	3	4,0	2,2	15,25	3,2	8,0	4,5	6,0	0,133	100	1600
009130	TT-2,5/4		4			17,50	4,2		5,0		0,137	100	1600
009140	TT-2,5/5		5			19,00	5,3		6,5		0,150	100	1600
009170	TT-4/4	4	4	5,0	2,7	21,75	4,2	9,0	6,2	8,1	0,308	100	1400
009180	TT-4/5		5			21,75	5,3	9,0	6,2		0,292	100	1400
009190	TT-4/6		6			25,50	6,5	12,0	6,2		0,274	100	1400
009220	TT-6/5	6	5	5,5	3,3	30,50	5,3	13,0	8,0	11,0	0,243	100	1200
009230	TT-6/6		6			31,50	6,5		8,0		0,360	100	1000
009240	TT-6/8		8			31,50	8,5		8,0		0,344	100	1000
009260	TT-10/5	10	5	6,8	4,3	30,50	5,3	12,0	6,5	12,0	0,345	100	800
009270	TT-10/6		6			30,50	6,5	12,0	6,5		0,598	100	800
009280	TT-10/8		8			37,00	8,5	15,0	10,0		0,485	100	600
009290	TT-10/10	10	10	8,0	5,3	41,00	10,5	16,0	12,0	14,0	0,573	100	400
009320	TT-16/6		6			33,30	6,5	13,0	6,3		0,702	100	500
009330	TT-16/8		8			37,50	8,5	16,0	8,5		0,712	100	500
009340	TT-16/10	16	10	9,5	6,6	41,50	10,5	16,0	10,5	15,0	0,752	100	400
009360	TT-25/6		6			36,30	6,5	13,0	6,3		0,874	50	300
009370	TT-25/8		8			42,00	8,5	18,0	10,0		1,022	50	300
009380	TT-25/10	25	10	11,0	7,9	46,00	10,5	18,0	12,0	17,0	1,139	50	250
009410	TT-35/6		6			39,50	6,5	15,0	7,5		1,202	50	200
009420	TT-35/8		8			44,00	8,5	17,0	10,0		1,591	50	200
009430	TT-35/10	35	10	12,5	9,2	49,00	10,5	17,0	12,0	19,0	1,592	50	200
009510	TT-50/8		8			47,00	8,5	18,0	10,0		2,109	20	140
009520	TT-50/10		10			52,00	10,5	21,0	12,0		2,264	20	140
009530	TT-50/12	50	12	15,0	11,0	54,00	13,0	22,0	13,0	21,0	2,101	20	120
009570	TT-70/8		8			51,00	8,5	21,0	10,0		2,241	20	100
009580	TT-70/10		10			55,00	10,5	21,0	12,0		3,357	20	80
009590	TT-70/12	70	12			59,00	13,0	22,0	13,0		3,449	20	80

Copper Connectors

Connection

CONNECTION CATALOGUE 2023



009 TT

NF C20-130 Tulip copper cable lug

TT cable lug manufactured from electrolytic copper with a tinplated finish to improve electrical contact.

The tulip shape at the end of the barrel favours the introduction of the cable.

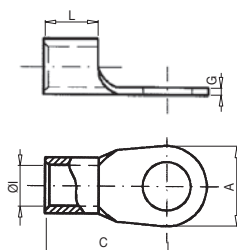
Electric test according to CEI 61238-1 standard.

Code	Ref.	Section (mm ²)		Dimensions (mm)							Kg x 100	Bag	Box
				ØE	ØI	L	ØT	A	C1	L2			
009630	TT-95/8	95	8	17,0	13,1	56,00	8,5	25,0	13,0	22,0	3,603	20	60
009640	TT-95/10		10			60,00	10,5				4,518	20	60
009650	TT-95/12		12			62,00	13,0				4,292	20	60
009660	TT-95/14		14			66,50	15,0				4,354	20	60
009670	TT-95/16		16			70,00	17,0				4,714	20	60
009700	TT-120/10	120	10	19,0	14,5	64,0	10,5	28,0	13,0	26,0	4,630	10	50
009710	TT-120/12		12			66,0	13,0				6,544	10	50
009720	TT-120/14		14			69,5	15,0				5,972	10	50
009730	TT-120/16		16			72,0	17,0				6,198	10	50
009750	TT-150/10	150	10	21,0	16,2	71,0	10,5	30,0	15,0	30,0	6,180	10	40
009760	TT-150/12		12			73,0	13,0				8,578	10	40
009770	TT-150/14		14			73,0	15,0				8,069	10	40
009780	TT-150/16		16			75,0	17,0				7,865	10	40
009810	TT-185/12	185	12	23,0	18,0	81,0	13,0	33,5	18,0	32,0	10,255	10	40
009820	TT-185/14		14			85,0	15,0				11,510	10	30
009830	TT-185/16		16			87,0	17,0				10,596	10	30
009860	TT-240/12	240	12	26,0	20,6	93,5	13,0	38,0	21,5	35,0	14,383	5	25
009870	TT-240/14		14			93,5	15,0				15,756	5	25
009880	TT-240/16		16			93,5	17,0				14,240	5	25
009890	TT-240/20		20			93,5	21,0				14,935	5	15
009910	TT-300/14	300	14	28,0	23,0	102,0	15,0	41,0	19,0	44,0	17,571	5	10
009920	TT-300/16		16			102,0	17,0				16,270	5	10
009930	TT-300/20		20			106,0	21,0				17,531	5	10
009950	TT-400/16	400	16	32,0	26,0	115,0	17,0	46,5	19,0	44,0	26,819	4	8
009960	TT-400/20		20			118,0	21,0				27,129	4	8

Copper Connectors

Connection

CONNECTION CATALOGUE 2023



020 TD

Soldered copper cable lug

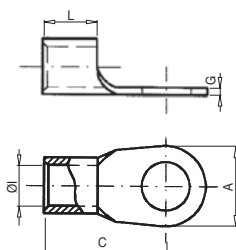
TD cable lug manufactured from soldered copper strip with a tinplated finish to improve electrical contact. According to DIN 46234 Standard.

Code	Ref.	Section (mm ²)		Dimensions (mm)					Kg x 100	Bag	Box
				ØI	L	A	C	G			
020100	TD-1,5/3	1,5	3	1,6	5,0	6,0	11,0	0,8	0,055	100	4000
020110	TD-1,5/4		4			8,0	12,0		0,070	100	3500
020120	TD-1,5/5		5			10,0	13,0		0,084	100	3000
020130	TD-2,5/3	2,5	3	2,3	5,0	6,0	11,0	0,8	0,064	100	3000
020140	TD-2,5/4		4			8,0	12,0		0,077	100	3000
020150	TD-2,5/5		5			10,0	14,0		0,080	100	2000
020160	TD-2,5/6		6			11,0	16,0		0,110	100	2000
020170	TD-2,5/8		8			14,0	17,0		0,135	100	2000
020180	TD-6/4	6	4	3,6	6,0	8,0	14,0	1,0	0,139	100	800
020190	TD-6/5		5			10,0	15,0		0,157	100	800
020200	TD-6/6		6			11,0	16,0		0,168	100	800
020210	TD-6/8		8			14,0	19,0		0,213	100	800
020220	TD-6/10		10			18,0	21,0		0,279	100	800
020230	TD-10/5	10	5	4,5	8,0	11,0	16,0	1,1	0,229	100	600
020240	TD-10/6		6			11,0	17,0		0,240	100	600
020250	TD-10/8		8			14,0	20,0		0,290	100	600
020260	TD-10/10		10			18,0	21,0		0,349	100	500
020270	TD-10/12		12			22,0	23,0		0,414	100	400
020280	TD-16/5	16	5	5,8	10,0	10,0	20,0	1,2	0,406	100	600
020290	TD-16/6		6			11,0	20,0		0,381	100	600
020300	TD-16/8		8			14,0	22,0		0,425	100	600
020310	TD-16/10		10			18,0	24,0		0,502	100	500
020320	TD-16/12		12			22,0	26,0		0,600	100	400
020330	TD-25/6	25	6	7,5	11,0	12,0	25,0	1,5	1,400	50	300
020340	TD-25/8		8			16,0	25,0		1,480	50	300
020350	TD-25/10		10			18,0	26,0		1,560	50	300
020360	TD-25/12		12			22,0	31,0		1,920	50	200
020370	TD-25/16		16			28,0	35,0		2,320	50	200
020380	TD-35/6	35	6	9,0	12,0	15,0	26,0	1,6	1,920	50	200
020390	TD-35/8		8			26,0	26,0		1,920	50	200
020400	TD-35/10		10			18,0	27,0		2,040	50	200
020410	TD-35/12		12			22,0	31,0		2,360	50	200
020420	TD-35/16		16			28,0	36,0		2,880	50	200

Copper Connectors

Connection

CONNECTION CATALOGUE 2023



020 TD

Soldered copper cable lug

TD cable lug manufactured from soldered copper strip with a tinplated finish to improve electrical contact. According to DIN 46234 Standard.

Code	Ref.	Section (mm ²)		Dimensions (mm)					Kg x 100	Bag	Box
				ØI	L	A	C	G			
020430	TD-50/6	50	6	11,0	16,0	18,0	34,0	1,8	1,760	25	150
020440	TD-50/8		8			18,0	34,0		1,720	25	150
020450	TD-50/10		10			18,0	34,0		1,680	25	150
020460	TD-50/12		12			22,0	36,0		1,840	25	150
020470	TD-50/16		16			28,0	40,0		2,120	25	100
020480	TD-70/6	70	6	13,0	18,0	22,0	38,0	2,0	2,600	10	80
020490	TD-70/8		8			22,0	38,0		2,600	10	80
020500	TD-70/10		10			22,0	38,0		2,600	10	80
020510	TD-70/12		12			22,0	38,0		2,600	10	80
020520	TD-70/16		16			22,0	38,0		2,600	10	80
020530	TD-95/8	95	8	15,0	20	24,0	42,0	2,5	4,100	10	60
020540	TD-95/10		10			24,0	42,0		4,100	10	60
020550	TD-95/12		12			24,0	42,0		4,000	10	60
020560	TD-95/16		16			28,0	44,0		4,100	10	60
020570	TD-120/8	120	8	16,5	22	24,0	44,0	3,0	5,600	10	60
020580	TD-120/10		10			24,0	44,0		6,200	10	60
020590	TD-120/12		12			24,0	44,0		5,400	10	60
020600	TD-120/16		16			28,0	48,0		5,700	10	40
020610	TD-150/10	150	10	19,0	24	30,0	50,0	3,2	8,400	5	30
020620	TD-150/12		12			30,0	50,0		8,600	5	25
020630	TD-150/16		16			30,0	50,0		7,700	5	20
020640	TD-185/10	185	10	21,0	28	36,0	50,0	3,5	11,100	5	20
020650	TD-185/12		12			36,0	50,0		10,800	5	20
020660	TD-185/16		16			36,0	50,0		10,700	5	20
020670	TD-240/10	240	10	23,5	32	38,0	56,0	4,0	15,200	5	20
020680	TD-240/12		12			38,0	56,0		15,000	5	20
020690	TD-240/16		16			38,0	56,0		14,700	5	15

Shear Head Bolt Connectors

Connection

CONNECTION CATALOGUE 2023

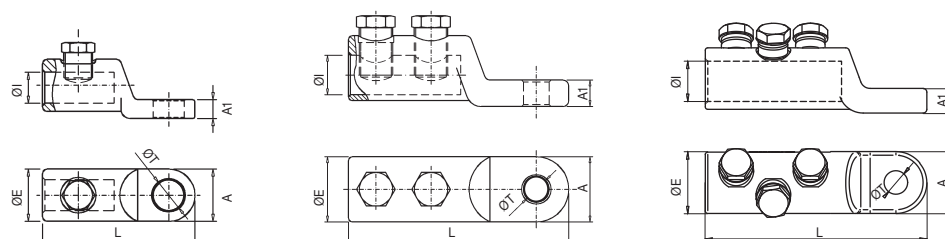


101 TTG

Shear head bolt cable lug

TTG cable lugs are manufactured from high conductivity smelted aluminium of purity higher than 99.5% and with a tinplated finish that covers the complete cable lug surface by means of an electrolytic process.

*According to UNE 211024-3 standard.
Have the  AENOR certificate mark.



Code	Ref.	Section (mm ²)		Strip Length			Dimensions (mm)								
							ØE	ØI	L	ØT	A	A1			
101102	TTG-16/50/8	16 to 50	1	35	1 x M12	12	22	10	64	9	22	8	4,500	1	100
101103	TTG-16/50/10						22	10	64	11	22	8	4,300	1	100
101104	TTG-16/50/12						22	10	64	13	22	8	4,300	1	100
101105	TTG-50/8*	25 to 50	1	35	1 x M12	12	22	10	64	9	22	8	4,500	1	100
101106	TTG-50/10*						22	10	64	11	22	8	4,300	1	100
101107	TTG-50/12*						22	10	64	13	22	8	4,300	1	100
101113	TTG-95/8*	50 to 95	1	35	1 x M12	12	22	13	64	9	22	8	4,400	1	100
101114	TTG-95/10*						22	13	64	11	22	8	4,300	1	100
101115	TTG-95/12*						22	13	64	13	22	8	4,000	1	100
101135	TTG-150/10*	95 to 150	2	60	2 x M17	17	26	16	100	11	26	10	11,000	1	50
101136	TTG-150/12*						26	16	100	13	26	10	10,800	1	50
101099	TTG-240/10*	95 to 240	2	60	2 x M17	17	33	20	112	11	33	13,5	17,300	1	45
101100	TTG-240/12*						33	20	112	13	33	13,5	17,400	1	45
101119	TTG-400/12	240 to 400	2	75	2 x M22	22	40	26	135	13	40	13,5	27,500	1	30
101120	TTG-400/16						40	26	135	17	40	13,5	28,500	1	30
101124	TTG-630/12/T3	500 to 630	3	92	3 x M24	24	52	32,5	165	13	52	20	70,940	1	-
101125	TTG-630/16/T3						52	32,5	165	17	52	20	70,560	1	-
101126	TTG-630/20/T3						52	32,5	165	21	52	20	64,560	1	-
101127	TTG-1000/20/T4	800 to 1000	4	105	4 x M22	22	65	41	175,5	21	65	30	126,400	1	-



Shear Head Bolt Connectors

Connection

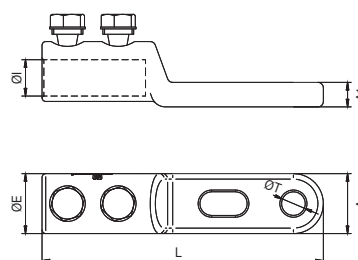
CONNECTION CATALOGUE 2023



102 TTG2

Shear head bolt cable lug

TTG/2 cable lugs are manufactured in high conductivity smelted aluminium of purity higher than 99.5%, with a tinned surface finish over the entire surface of the cable lug by means of electrolytic bath.



Code	Ref.	Section (mm ²)		Strip Length			Dimensions (mm)								
							ØE	ØI	L	ØT	A	A1			
101180	TTG/2-240/10	95 to 240	2	60	2 x M17	17	33	20	155	11	33	13,5	22,300	1	-
101185	TTG/2-240/12						33	20	155	13	33	13,5	21,700	1	-

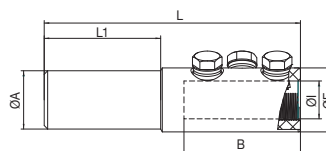


106 BTF

Bimetallic cable lug

BTF cable lugs are manufactured from high conductivity aluminium.

Shear head bolts are designed to be broken by suitable torque as per conductor section, being perfectly flush against the connector wall. 15 µ tinned surface finish giving a greater protection against corrosion.

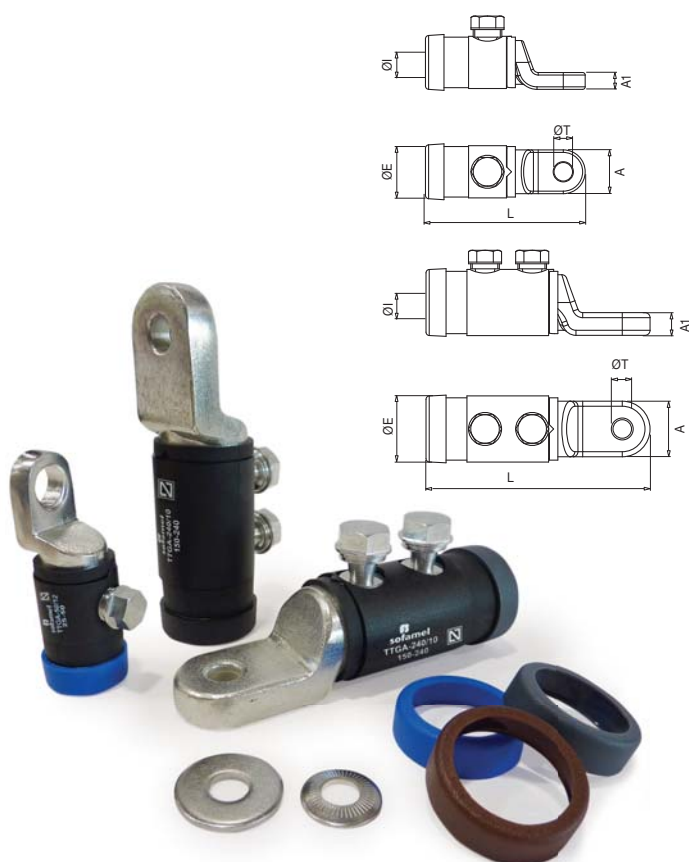


Code	Ref.	Section (mm ²)	Strip Length			Dimensions (mm)										
						ØA	B	ØE	ØI	L	L1	M	P			
101380	BTF-400/630	400 - 630	105	3 x M24	22	50	100	55	32,5	220	100	M24	22	1,16	1	-
101385	BTF-800/1000	800 - 1000	120	4 x M22			115	65	42	250		M22		1,53	1	-

Shear Head Bolt Connectors

Connection

CONNECTION CATALOGUE 2023



103 TTGA

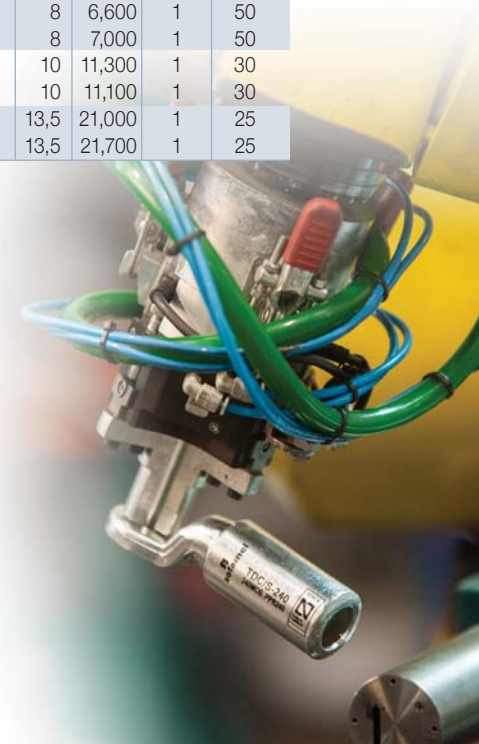
Insulated terminals with shear head bolts

TTGA cable lugs are manufactured from high-conductivity cast aluminium with a finish covering the complete cable lug surface using a tinplating process. They feature an insulated cover and different-coloured bands to differentiate between phases: black, brown and grey, and neutral in blue.

According to UNE 211022 standard.
Have the  AENOR certificate mark.



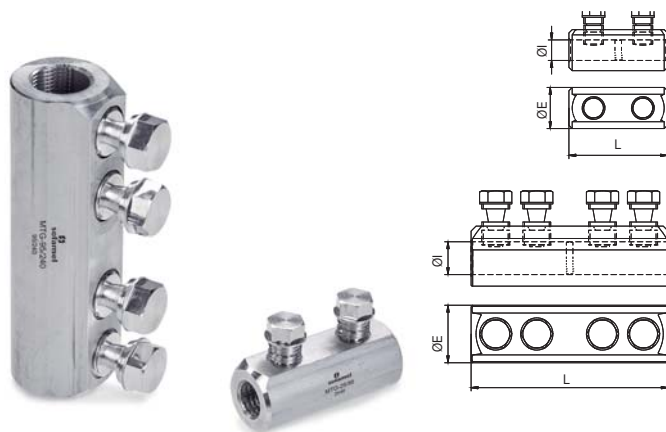
Code	Ref.	Section (mm ²)	T1/T2		T3		Strip Length	Dimensions (mm)						Kg x 100	Bag	Box
								ØE	ØI	L	ØT	A	A1			
101400	TTGA-50/8	25 to 50	1 x M12	12	8	13	35	29	13	79	9	22	8	6,600	1	50
101405	TTGA-50/10				10	17		29	13	79	11	22	8	6,700	1	50
101410	TTGA-50/12				12	19		29	13	79	13	22	8	7,100	1	50
101415	TTGA-95/8	50 to 95	1 x M12	12	8	13	35	29	13	79	9	22	8	6,400	1	50
101420	TTGA-95/10				10	17		29	13	79	11	22	8	6,600	1	50
101425	TTGA-95/12				12	19		29	13	79	13	22	8	7,000	1	50
101438	TTGA-150/10	95 to 150	2 x M17	17	10	17	60	33	16	118	11	26	10	11,300	1	30
101439	TTGA-150/12				12	19		33	16	118	13	26	10	11,100	1	30
101450	TTGA-240/10	150 to 240	2 x M17	17	10	17	60	40	20	133	11	33	13,5	21,000	1	25
101455	TTGA-240/12				12	19		40	20	133	13	33	13,5	21,700	1	25



Shear Head Bolt Connectors

Connection

CONNECTION CATALOGUE 2023



104 MTG

Shear head bolt connector

MTG connector manufactured from high conductivity aluminium.

Shear head bolts are designed to be broken by suitable torque as per conductor section, being perfectly flush against the connector wall. 15 µ tinned surface finish giving a greater protection against corrosion.

According to UNE 211024-3 standard.

Code	Ref.	Section		Dimensions (mm)			 x 100	 Bag	 Box
				ØE	ØI	L			
101204	MTG-25/95	25 to 95	2	25	12,5	60	9,000	1	-
101200	MTG-95/240	95 to 240	4	35	20	120	21,800	1	40
101201	MTG-240/400	240 to 400	6	42	26	170	60,180	1	-
101202	MTG-500/630	500 to 630	6	52	33	200	88,810	1	-
101203	MTG-630/1000	630 to 1000	8	65	41	220	151,250	1	-



104 MTG/R

Shear head bolt connector reducer

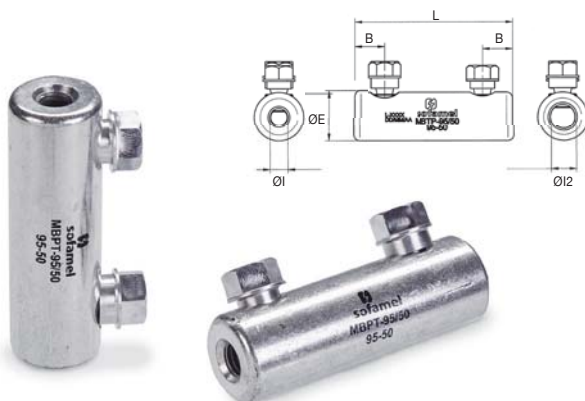
MTG/R connector manufactured in high conductivity aluminium. Fuse splicers are designed to break according to the conductor section, flush with the connector. 20 µ tinned surface finish giving a greater protection against corrosion.

Code	Ref.	Section		Dimensions (mm)						 x 100	 Bag	 Box
		S1	S2	ØE	ØI1	ØI2	L	L1	L2			
101230	MTG/R-240/95	95-240	16-95	35	12,5	20	100	31	66	22,500	1	75

Shear Head Bolt Connectors

Connection

CONNECTION CATALOGUE 2023



104 MBPT-95/50

Shear head bolt connector

Bimetallic earthing connector for 95 mm² aluminium to 50 mm² aluminium sections.
Recommended for subterranean networks not subject to mechanical traction.
Installation by tightening shear bolt.
High-strength aluminium alloy connector.
With 20µ tinplated finish.
For bimetallic use.

Code	Ref.	Section		Dimensions (mm)					Kg x 100	Bag	Box
		Al	Al	ØE	ØI1	ØI2	L	B			
101210	MBPT-95/50	95	50	25	9	12,6	80	15	10,300	1	75



10204 MTSA

Insulated shear head bolt connector

Joint sleeve fuse for aluminium connection of sections ranging from 25 to 240 mm².
Recommended for underground networks.
Installation through torque using insulated fuse connectors.
Sleeve in high-resistance aluminium alloy.
Fitted with insulating cover and sealing ring at the ends.

According to UNE 211022 standard.
Have the  AENOR certificate mark.



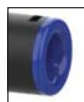
25 - 50 mm²



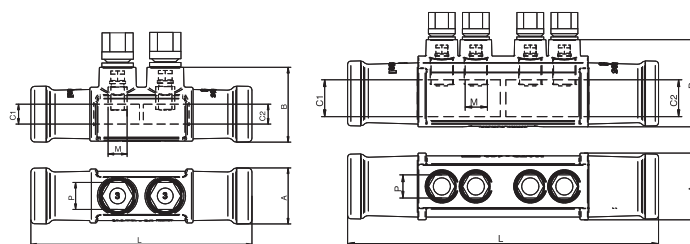
95 - 150 mm²



50 - 95 mm²



150 - 240 mm²

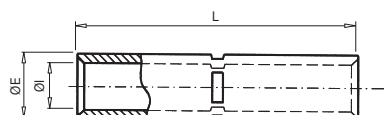


Code	Ref.	Section mm²	Cable section		Dimensions (mm)						 x 100	 Bag	 Box
			C1	C2	A	B	L	M	P	Par Nm			
101250	MTSA-50	25-50	25-50	25-50							16,000	1	-
101255	MTSA-95	50-95	50-95	50-95	35	47	139	2 x M12	17	22 ±2	16,000	1	-
101270	MTSA-25/95	25-95	25-50	50-95							16,000	1	-
101260	MTSA-150	95-150	95-150	95-150							51,000	1	-
101265	MTSA-240	150-240	150-240	150-240	48	64	229	4 x M17	17	30 ±3	51,000	1	-
101275	MTSA-95/240	95-240	95-150	150-240							51,000	1	-

Aluminium Connectors

Connection

CONNECTION CATALOGUE 2023

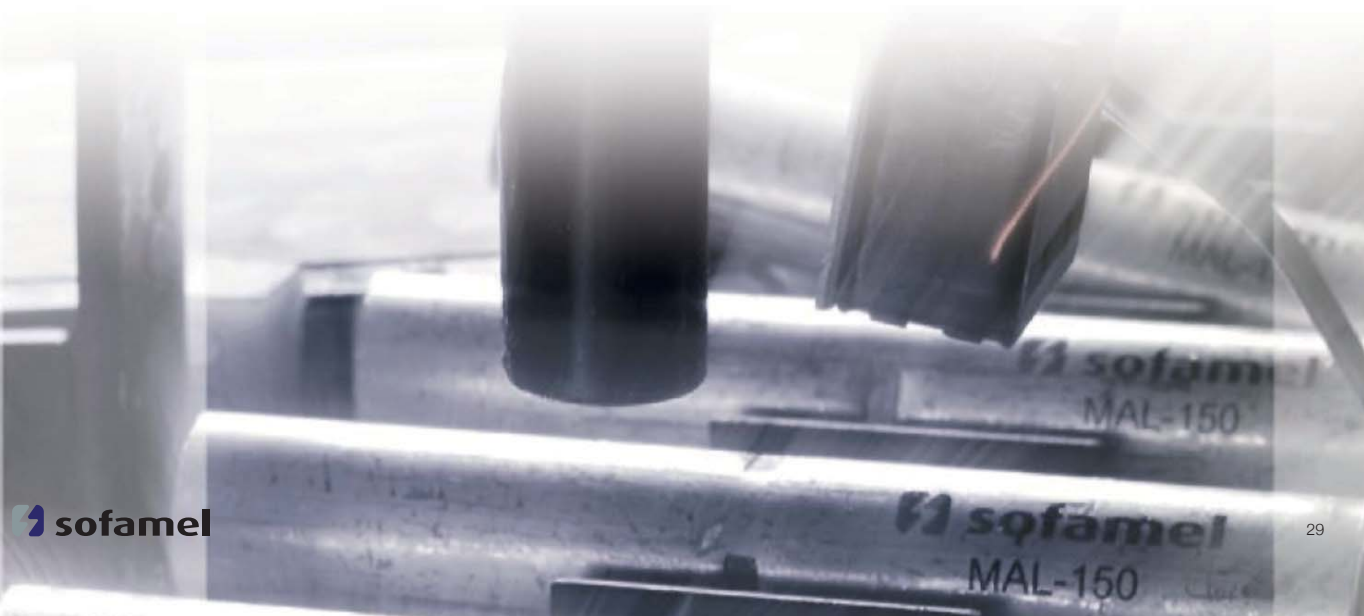


080 MAL

Aluminium butt-connector

MAL butt-connector manufactured from aluminium alloy tube of purity equal or higher than 99.5%. Incorporates a central buffer stop which divides the connector in two equal parts. Both holes contain neutral grease to avoid aluminium oxidation.

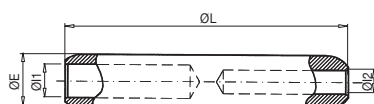
Code	Ref.	Section (mm²)	Dimensions (mm)			 x 100	 Bag	 Box
			ØE	ØI	L			
080100	MAL-25	25	11,0	6,5	100	1,880	1	250
080110	MAL-35	35	13,3	7,8	100	2,660	1	200
080120	MAL-50	50	15,2	9,7	100	2,840	1	200
080130	MAL-70	70	17,0	11,0	100	3,700	1	150
080140	MAL-95	95	19,3	12,5	100	4,700	1	130
080150	MAL-120	120	21,7	14,1	140	9,200	1	90
080160	MAL-150	150	25,0	15,5	140	12,300	1	85
080170	MAL-185	185	28,1	18,3	140	13,800	1	60
080180	MAL-240	240	32,0	19,5	140	18,800	1	50
080190	MAL-300	300	34,0	23,3	145	25,000	1	50



Aluminium Connectors

Connection

CONNECTION CATALOGUE 2023



100 RJA

Reducer aluminium joint

RJA joint manufactured from aluminium alloy of purity equal or higher than 99.5%. Incorporates a central buffer stop which divides the joint in two equal parts. Both holes contain neutral grease to avoid aluminium oxidation.

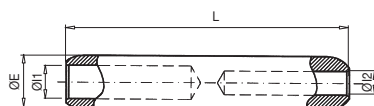
Code	Ref.	Section Al. (mm ²)		Dimensions (mm)				Kg x 100	Bag	Box
		1	2	ØE	ØI1	ØI2	L			
100099	RJ1A-50/16		16			5,5		7,570	1	125
100100	RJ1A-50/25	50	25	20	9,0	6,5	106,5	7,450	1	125
100105	RJ1A-50/35		35			8,0		7,240	1	125
110112	RJ1A-70/16		16			5,5		7,180	1	125
100113	RJ1A-70/25	70	25	20	11,0	6,5	106,5	7,060	1	125
100114	RJ1A-70/35		35			8,0		68,50	1	125
100115	RJ1A-70/50		50			9,0		6,680	1	125
100137	RJ1A-95/16		16			5,5		6,840	1	125
100138	RJ1A-95/25		25			6,5		6,720	1	125
100139	RJ1A-95/35	95	35	20	12,5	8,0	106,5	6,510	1	125
100140	RJ1A-95/50		50			9,0		6,340	1	125
100143	RJ1A-95/70		70			11,0		5,950	1	125
10016100	RJ2A-120/16		16			5,5		13,100	1	90
10016101	RJ2A-120/25		25			6,5		12,960	1	90
10016102	RJ2A-120/35	120	35	25	13,7	8,0	133	12,700	1	90
10016103	RJ2A-120/50		50			9,0		12,500	1	90
100145	RJ2A-120/70		70			11,0		12,020	1	90
100146	RJ2A-120/95		95			12,5		11,600	1	90
100147	RJ2A-150/16		16			5,5		12,480	1	90
100148	RJ2A-150/25		25			6,5		12,340	1	90
100149	RJ2A-150/35		35			8,0		12,080	1	90
100150	RJ2A-150/50	150	50	25	15,5	9,0	133	11,880	1	90
100158	RJ2A-150/70		70			11,0		11,400	1	90
100160	RJ2A-150/95		95			12,5		10,900	1	90
100161	RJ2A-150/120		120			13,7		10,610	1	90
10016200	RJ4A-185/16		16			5,5		22,840	1	50
10016201	RJ4A-185/25		25			6,5		22,690	1	50
10016202	RJ4A-185/35		35			8,0		22,410	1	50
10016203	RJ4A-185/50	185	50	32	17,0	9,0	143,5	22,190	1	50
10016204	RJ4A-185/70		70			11,0		21,680	1	50
10016205	RJ4A-185/95		95			12,5		21,240	1	50
10016206	RJ4A-185/120		120			13,7		20,840	1	50
10016207	RJ4A-185/150		150			15,5		20,170	1	50

Other sections under request.

Aluminium Connectors

Connection

CONNECTION CATALOGUE 2023



100 RJA

Reducer aluminium joint

RJA joint manufactured from aluminium alloy of purity equal or higher than 99.5%. Incorporates a central buffer stop which divides the joint in two equal parts. Both holes contain neutral grease to avoid aluminium oxidation.

They are used for Al-Al or Al-Cu connections, ensuring that the aluminum conductor is always larger and the copper conductor is smaller. It is essential to properly seal any possible entry points for external agents to prevent oxidation.

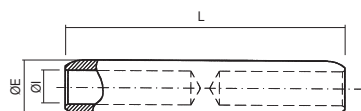
Code	Ref.	Section Al. (mm ²)		Dimensions (mm)				Kg x 100	Bag	Box
		1	2	ØE	ØI1	ØI2	L			
10016208	RJ4A-240/16	250	16	32	19,5	5,5	143,5	21,680	1	50
100163	RJ4A-240/25		25			6,5		21,530	1	50
100164	RJ4A-240/35		35			8,0		21,250	1	50
100165	RJ4A-240/50		50			9,0		21,030	1	50
100168	RJ4A-240/70		70			11,0		20,520	1	50
100170	RJ4A-240/95		95			12,5		20,080	1	50
100175	RJ4A-240/120		120			13,7		19,680	1	50
100180	RJ4A-240/150		150			15,5		19,010	1	50
100181	RJ4A-240/185		185			17,0		18,390	1	50
100182	RJ5A-300/16	300	16	40	23,3	5,5	218	53,750	1	15
100183	RJ5A-300/25		25			6,5		53,510	1	15
100184	RJ5A-300/35		35			8,0		53,070	1	15
100185	RJ5A-300/50		50			9,0		52,350	1	15
100186	RJ5A-300/70		70			11,0		51,920	1	15
100187	RJ5A-300/95		95			12,5		51,210	1	15
100188	RJ5A-300/120		120			13,7		50,580	1	15
100189	RJ5A-300/150		150			15,5		49,520	1	15
100190	RJ5A-300/185		185			17,0		48,540	1	15
100191	RJ5A-300/240		240			19,5		46,700	1	15
100193	RJ5A-400/16	400	16	40	26,0	5,5	218	51,070	1	15
100194	RJ5A-400/25		25			6,5		50,830	1	15
100195	RJ5A-400/35		35			8,0		50,390	1	15
100196	RJ5A-400/50		50			9,0		49,670	1	15
100197	RJ5A-400/70		70			11,0		49,240	1	15
100198	RJ5A-400/95		95			12,5		48,530	1	15
100199	RJ5A-400/120		120			13,7		47,900	1	15
100200	RJ5A-400/150		150			15,5		46,840	1	15
100205	RJ5A-400/185		185			17,0		45,860	1	15
100210	RJ5A-400/240		240			19,5		44,020	1	15
100215	RJ5A-400/300		300			23,3		40,750	1	15

Other sections under request.

Aluminium Connectors

Connection

CONNECTION CATALOGUE 2023



095 RJA

Aluminium joint

RJA joint manufactured from aluminium alloy of purity equal or higher than 99.5%. Incorporates a central buffer stop which divides the joint in two equal parts. Both holes contain neutral grease to avoid aluminium oxidation.

According to UNE 211024 standard.

Have  AENOR certificate mark.*



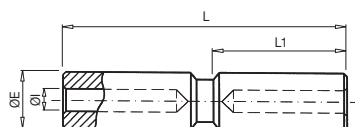
Code	Ref.	Section (mm ²)	Dimensions (mm)			 x 100	 Bag	 Box
			ØE	ØI	L			
095100	RJ1A-25	25	20,0	6,5	106,5	7,900	1	125
095110	RJ1A-35	35	20,0	8,0	106,5	7,600	1	125
095120	RJ1A-50*	50	20,0	9,0	106,5	7,160	1	125
095130	RJ1A-70	70	20,0	11,0	106,5	7,000	1	125
095140	RJ1A-95*	95	20,0	12,5	106,5	5,700	1	125
095150	RJ2A-120	120	25,0	13,7	133,0	13,000	1	90
095160	RJ2A-150*	150	25,0	15,5	133,0	11,300	1	90
095170	RJ4A-185	185	32,0	17,0	143,5	22,000	1	50
095180	RJ4A-240*	240	32,0	19,5	143,5	19,000	1	50
095190	RJ5A-300	300	40,0	23,3	218,0	48,000	1	15
095200	RJ5A-400*	400	40,0	26,0	218,0	43,000	1	15



Aluminium Connectors

Connection

CONNECTION CATALOGUE 2023

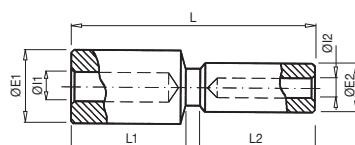


085 BT

Aluminium joint

BT joint manufactured from aluminium alloy of purity equal or higher than 99.5%. Incorporates a central buffer stop which divides the joint in two equal parts. Both holes contain neutral grease to avoid aluminium oxidation.

Code	Ref.	Section (mm ²)	Dimensions (mm)				Kg x 100	Bag	Box
			ØE	ØI	L	L1			
085100	BT-25	25	20,0	6,5	100	47,5	7,500	1	125
085110	BT-35	35	20,0	8,0	100	47,5	7,200	1	125
085120	BT-50	50	20,0	9,0	100	47,5	6,600	1	125
085130	BT-70	70	20,0	11,0	100	47,5	5,900	1	125
085140	BT-95	95	20,0	12,5	100	47,5	5,700	1	125
085150	BT-120	120	25,0	13,7	135	64,0	13,300	1	75
085160	BT-150	150	25,0	15,5	135	64,0	11,900	1	75
085170	BT-185	185	32,0	17,0	135	64,0	21,600	1	50
085180	BT-240	240	32,0	19,5	135	64,0	20,000	1	50
085190	BT-300	300	40,0	23,3	187	90,0	34,000	1	25
085200	BT-400	400	40,0	26,0	187	90,0	32,000	1	25



090 RBT

Reducer aluminium joint

RBT joint manufactured from aluminium alloy of purity equal or higher than 99.5%. Incorporates a central buffer stop which divides the joint in two equal parts. Both holes contain neutral grease to avoid aluminium oxidation.

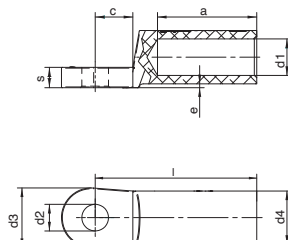
Code	Ref.	Section Al. (mm ²)		Dimensions (mm)							Kg x 100	Bag	Box
		1	2	ØE1	ØI1	ØE2	ØI2	L	L1	L2			
090100	RBT-50/25	50	25	20,0	9,0	20,0	6,5	100,0	47,5	47,5	7,000	1	125
090110	RBT-95/50	95	50	20,0	12,5	20,0	9,0	100,0	47,5	47,5	5,000	1	125
090120	RBT-150/50	150	50	25,0	15,5	20,0	9,0	118,5	64,0	47,5	9,000	1	75
090130	RBT-150/95	150	95	25,0	15,5	20,0	12,5	118,5	64,0	47,5	8,800	1	75
090140	RBT-240/95	240	95	32,0	19,5	20,0	12,5	118,5	64,0	47,5	13,600	1	50
090150	RBT-240/150	240	150	32,0	19,5	25,0	15,5	135,0	64,0	64,0	16,000	1	50

Other sections under request.

Bimetallic Connectors

Connection

CONNECTION CATALOGUE 2023



115 TBE/D

DIN 46329 tinned aluminium cable lug

TBE/D bimetallic cable lug manufactured from aluminium alloy bar of purity equal or higher than 99.5%. The complete cable lug surface is tinned by means of an electrolytic process. Incorporates neutral grease to avoid aluminium oxidation. It is designed for underground cable connections.

According to DIN 46329.

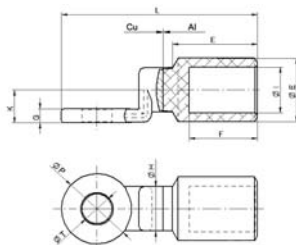
Code	Ref.	Section (mm²)	Dimensions (mm)										 x 100	 Bag	 Box
			Bolt Ø	a	c	d1	d2	d3	d4	e	l	s			
115351	TBE/D-25/8	25	8	30	15,5	6,8	8,4	25	12	2	50	4	-	1	-
115352	TBE/D-25/10		10	30	15,5	6,8	10,5	25	12	2	50	4	-	1	-
115353	TBE/D-25/12		12	30	15,5	6,8	13	25	12	2	50	4	-	1	-
115354	TBE/D-35/8	35	8	42	15,5	8	8,4	25	14	2	62	4	-	1	-
115355	TBE/D-35/10		10	42	15,5	8	10,5	25	14	2	62	4	-	1	-
115356	TBE/D-35/12		12	42	15,5	8	13	25	14	2	62	4	-	1	-
115357	TBE/D-50/8	50	8	42	15,5	9,8	8,4	25	16	2	62	5,5	-	1	-
115358	TBE/D-50/10		10	42	15,5	9,8	10,5	25	16	2	62	5,5	-	1	-
115359	TBE/D-50/12		12	42	15,5	9,8	13	25	16	2	62	5,5	-	1	-
115360	TBE/D-70/8	70	8	52	15,5	11,2	8,4	25	18,5	2	72	5,5	-	1	-
115361	TBE/D-70/10		10	52	15,5	11,2	10,5	25	18,5	2	72	5,5	-	1	-
115319	TBE/D-70/12		12	52	15,5	11,2	13	25	18,5	2	72	5,5	-	1	-
115362	* TBE/D-95/8	95	8	56	15,5	13,2	8,4	25	22	2	75	6	-	1	-
115363	TBE/D-95/10		10	56	15,5	13,2	10,5	25	22	2	75	6	-	1	-
115364	TBE/D-95/12		12	56	15,5	13,2	13	25	22	2	75	6	-	1	-
115365	* TBE/D-95/16	120	16	56	15,5	13,2	17	25	22	2	75	6	-	1	-
115366	TBE/D-120/10		10	56	20	14,7	10,5	30	23	2	80	7,5	-	1	-
115367	TBE/D-120/12		12	56	20	14,7	13	30	23	2	80	7,5	-	1	-
115368	TBE/D-120/16	150	16	56	20	14,7	17	30	23	2	80	7,5	-	1	-
115369	TBE/D-150/10		10	60	20	16,3	10,5	30	25	2,5	90	8	-	1	-
115370	TBE/D-150/12		12	60	20	16,3	13	30	25	2,5	90	8	-	1	-
115371	TBE/D-150/16	180	16	60	20	16,3	17	30	25	2,5	90	8	-	1	-
115372	TBE/D-185/10		10	60	20	18,3	10,5	30	28,5	2,5	91	8	-	1	-
115339	TBE/D-185/12		12	60	20	18,3	13	30	28,5	2,5	91	8	-	1	-
115373	TBE/D-185/16	240	16	60	20	18,3	17	30	28,5	2,5	91	8	-	1	-
115374	TBE/D-240/12		12	70	24	21	13	38	32	2,5	103	11	-	1	-
115375	TBE/D-240/16		16	70	24	21	17	38	32	2,5	103	11	-	1	-
115376	TBE/D-240/20	300	20	70	24	21	21	38	32	2,5	103	11	-	1	-
115349	TBE/D-300/12		12	70	24	23,3	13	38	34	2,5	103	13	-	1	-
115377	TBE/D-300/16		16	70	24	23,3	17	38	34	2,5	103	13	-	1	-
115378	TBE/D-300/20	400	20	70	24	23,3	21	38	34	2,5	103	13	-	1	-
115379	TBE/D-400/12		12	73	24	26	13	38	38,5	4	116	14	-	1	-
115380	TBE/D-400/16		16	73	24	26	17	38	38,5	4	116	14	-	1	-
115381	TBE/D-400/20	500	20	73	24	26	21	38	38,5	4	116	14	-	1	-
115382	TBE/D-500/12		12	79	24	29	13	44	44	5	122	15	-	1	-
115383	TBE/D-500/16		16	79	24	29	17	44	44	5	122	15	-	1	-
115384	TBE/D-500/20		20	79	24	29	21	44	44	5	122	15	-	1	-

* Not according to DIN 46329

Bimetallic Connectors

Connection

CONNECTION CATALOGUE 2023

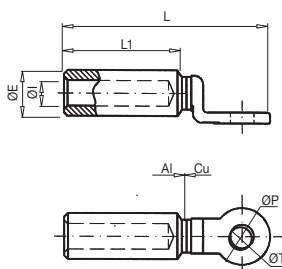


110 TBF/CM

Bimetallic cable lug

TBF/CM bimetallic cable lug manufactured from aluminium alloy of purity equal or higher than 99.5%. The palm is manufactured with forged copper. The two parts of the bimetallic cable lug are joined through a friction stir welding process. Incorporates neutral grease to avoid aluminium oxidation.

Code	Ref.	Dimensions (mm)										Kg x 100	Bag	Box
		ØE	ØI	L	E	F	ØH	ØP	ØT	K	G			
110221	TBF-16-CM	16	5,5	60	31	26	9,6	16,5	8,4	9	4,5	-	1	-
110222	TBF-25-CM	16	6,5	60	31	26	9,6	16,5	8,4	9	4,5	-	1	-
110223	TBF-35-CM	16	8	60	31	26	9,6	16,5	8,4	9	4,5	-	1	-
110224	TBF-50-CM	16	9	60	31	26	9,6	16,5	8,4	9	4,5	-	1	-
110225	TBF-70-CM	20	11	64	33	26	12	20	10,5	10	4,5	-	1	-
110226	TBF-95-CM	20	12,5	64	33	26	12	20	10,5	10	4,5	-	1	-
110227	TBF-120-CM	20	13,7	64	33	26	12	20	10,5	10	4,5	-	1	-
110228	TBF-150-CM	27	15,5	82	36	29	18,8	30	12,8	14	6	-	1	-
110229	TBF-185-CM	27	17	82	36	29	18,8	30	12,8	14	6	-	1	-
110230	TBF-240-CM	27	19,5	83	36	29	18,8	30	12,8	14	6	-	1	-
110231	TBF-300-CM	32	23,3	98	44	33	23,8	36	14,5	18	7	-	1	-
110232	TBF-400-CM	40	26	108	54	43	28	36	14,5	18	7	-	1	-



110 TBF

Bimetallic cable lug

TBF bimetallic cable lug manufactured from aluminium alloy of purity equal or higher than 99.5%. The palm is manufactured with forged copper. The two parts of the bimetallic cable lug are joined through a friction stir welding process. Incorporates neutral grease to avoid aluminium oxidation.

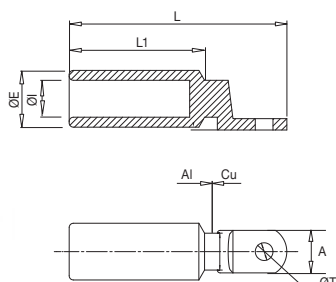
Comply with the NF C33-090-1 standard.
Electric and mechanical tests according to CEI 61238-1 standard.

Code	Ref.	Section (mm ²)	Dimensions (mm)						Kg x 100	Bag	Box
			ØE	ØI	L1	L	ØT	ØP			
110100	TBF-16	16	20,0	5,5	47,5	86,0	12,8	25,0	7,600	1	125
110110	TBF-25	25	20,0	6,5	47,5	86,0	12,8	25,0	7,200	1	125
110120	TBF-35	35	20,0	8,0	47,5	86,0	12,8	25,0	7,200	1	125
110130	TBF-50	50	20,0	9,0	47,5	86,0	12,8	25,0	7,000	1	125
110140	TBF-70	70	20,0	11,0	47,5	86,0	12,8	25,0	7,000	1	125
110150	TBF-95	95	20,0	12,5	47,5	86,0	12,8	25,0	6,300	1	125
110160	TBF-120	120	25,0	13,7	64,0	110,0	12,8	30,0	13,500	1	80
110170	TBF-150	150	25,0	15,5	64,0	110,0	12,8	30,0	12,200	1	80
110180	TBF-185	185	32,0	17,0	64,0	110,0	12,8	30,0	20,100	1	50
110190	TBF-240	240	32,0	19,5	64,0	110,0	12,8	30,0	22,600	1	50
110200	TBF-300	300	40,0	23,3	100,0	154,0	16,5	36,0	33,400	1	32
110210	TBF-400	400	40,0	26,0	100,0	154,0	16,5	36,0	30,200	1	32

Bimetallic Connectors

Connection

CONNECTION CATALOGUE 2023



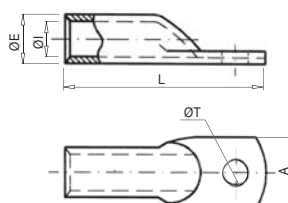
117 TBPE

bimetallic cable lug

The TBPE tube is made of aluminum alloy of purity equal or higher than 99.5% and the blade is made of electrolytic copper with a purity greater than 99.9%. Through a friction welding process, both materials are joined to form the bimetallic connector.

Incorporates neutral grease to avoid aluminium oxidation.

Code	Ref.	Section (mm ²)	Dimensions (mm)						Kg x 100	Bag	Box
			ØE	ØI	ØT	A	L1	L			
112190	TBPE-240	240	32	19,5	12,5	25	67	116	-	1	-
112200	TBPE-300	300	34	23,3	12,5	30	73	130	-	1	-
112210	TBPE-400	400	40	26	12,5	30	95,5	153,5	-	1	-



115 TBE

Tinned aluminium cable lug

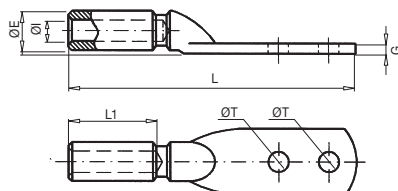
TBE cable lug manufactured from aluminium alloy tube of purity equal or higher than 99.5% with a tinplated finish to improve electrical contact. Incorporates neutral grease to avoid aluminium oxidation.

Code	Ref.	Section (mm ²)	Dimensions (mm)					Kg x 100	Bag	Box
			ØE	ØI	ØT	L	A			
115090	TBE-16	16	8,7	5,5	8,5	43,0	15,0	0,437	1	400
115100	TBE-25	25	11,0	6,5	8,5	52,0	16,0	0,860	1	300
115110	TBE-35	35	13,3	7,8	8,5	56,0	19,0	1,360	1	250
115120	TBE-50	50	15,2	9,7	13,0	68,0	22,0	1,880	1	200
115130	TBE-70	70	17,0	11,0	13,0	75,0	25,0	2,700	1	200
115140	TBE-95	95	19,3	12,5	13,0	81,0	28,0	3,880	1	150
115150	TBE-120	120	21,7	14,1	13,0	94,0	32,0	5,600	1	100
115160	TBE-150	150	25,0	15,5	13,0	104,0	35,0	8,200	1	75
115170	TBE-185	185	28,1	18,3	13,0	112,0	40,0	10,600	1	50
115180	TBE-240	240	32,0	19,5	15,0	125,0	44,0	17,200	1	50
115190	TBE-300	300	34,0	23,3	15,0	140,0	47,0	20,700	1	40

Bimetallic Connectors

Connection

CONNECTION CATALOGUE 2023



125 TBEM/S

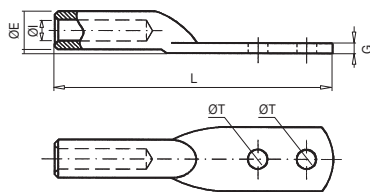
Tinned bimetallic cable lug

TBEM/S bimetallic cable lug manufactured from aluminium alloy tube of purity equal or higher than 99.5%. The complete cable lug surface is tinned by means of an electrolytic process. Incorporates neutral grease to avoid aluminium oxidation. It is designed for underground cable connections.

Underground cables

Code	Ref.	Section (mm ²)	Dimensions (mm)						Kg x 100	Bag	Box
			ØE	ØI	ØT	L1	G	L			
125100	TBEM/S-25	25	20,0	6,5	13,0	47,5	7,7	170	13,300	1	60
125110	TBEM/S-35	35	20,0	8,0	13,0	47,5	7,7	170	12,500	1	60
125120	TBEM/S-50	50	20,0	9,0	13,0	47,5	7,7	170	12,000	1	60
125130	TBEM/S-70	70	20,0	11,0	13,0	47,5	7,7	170	11,700	1	50
125140	TBEM/S-95	95	20,0	12,5	13,0	47,5	7,7	170	11,200	1	50
125150	TBEM/S-120	120	25,0	13,7	13,0	64,5	11,6	190	20,700	1	40
125160	TBEM/S-150	150	25,0	15,5	13,0	64,5	11,6	190	19,400	1	40
125180	TBEM/S-240	240	32,0	19,5	13,0	64,5	11,6	199	27,800	1	30

* Supplied without screws.



125 TBEM/A

Tinned bimetallic cable lug

TBEM/A bimetallic cable lug manufactured from aluminium alloy tube of purity equal or higher than 99.5%. The complete cable lug surface is tinned by means of an electrolytic process. Incorporates neutral grease to avoid aluminium oxidation. It is designed for overhead cable connection.

Overhead cables

Code	Ref.	Section (mm ²)	Dimensions (mm)					Kg x 100	Bag	Box
			ØE	ØI	ØT	G	L			
125190	TBEM/A-30	LA-30	20,0	7,6	13,0	7,7	170	12,200	1	80
125200	TBEM/A-56	LA-56	20,0	10,0	13,0	7,7	170	11,800	1	80
125210	TBEM/A-78	LA-78	20,0	12,0	13,0	7,7	170	10,600	1	80
125220	TBEM/A-100	LA-100	20,0	13,0	13,0	7,7	170	10,200	1	50
125230	TBEM/A-110	LA-110	25,0	14,5	13,0	11,6	190	19,800	1	40
125235	TBEM/A-125	LA-125	25,0	15,5	13,0	11,6	190	19,500	1	40
125240	TBEM/A-145	LA-145	25,0	16,5	13,0	11,6	190	19,300	1	40
125250	TBEM/A-180	LA-180	32,0	18,3	13,0	-	199	32,500	1	30

* Supplied without screws.



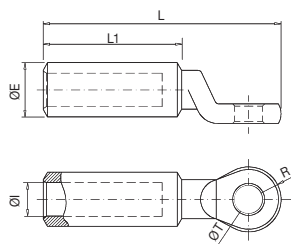
125 Screw kit

Code	Ref.	Content
125500	SCREW KIT M-12 x 40 INOX	2 screws, 4 nuts and 4 stainless steel washers.
125600	SCREW KIT M-12 x 50 INOX	

Bimetallic Connectors

Connection

CONNECTION CATALOGUE 2023



111 TDC/A

Bimetallic cable lug

TDC/A bimetallic cable lug manufactured from aluminium alloy bar of purity equal or higher than 99.5%. The complete cable lug surface is tinned by means of an electrolytic process. Incorporates neutral grease to avoid aluminium oxidation. It is especially designed for overhead cable connections.

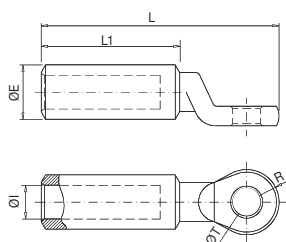
For overhead cable

Code	Ref.	Section (mm²)	Dimensions (mm)						Kg x 100	Bag	Box
			ØE	ØI	ØT	R	L1	L			
111200	TDC/A-30/12	LA-30	20,0	7,6	12,9	13,0	47,1	75,0	5,400	1	125
111205	TDC/A-54,6/12	LA-54,6		10,0	9,0				4,800	1	125
111207	TDC/A-56/8	LA-56			12,9				-	1	-
111210	TDC/A-56/12	LA56			12,9				4,800	1	125
111220	TDC/A-78/12	LA-78		12,0	12,9				4,520	1	125
111225	TDC/A-80/12	LA-80		12,5	12,9				4,480	1	125
111230	TDC/A-110/12	LA-110	25,0	14,5	12,9	15,0	48,0	75,0	9,300	1	80
111235	TDC/A-145/12	LA-145		16,5	12,9				-	1	-
111240	TDC/A-180/12	LA-180	32,0	18,3	12,9	18,0	70,7	109,0	15,900	1	50

Bimetallic Connectors

Connection

CONNECTION CATALOGUE 2023



111 TDC/S

Bimetallic cable lug

TDC/S bimetallic cable lug manufactured from aluminium alloy bar of purity equal or higher than 99.5%. The complete cable lug surface is tinned by means of an electrolytic process. Incorporates neutral grease to avoid aluminium oxidation.

According to UNE 211024-2 standard.
Have  AENOR certificate mark.*



For underground cable

Code	Ref.	Section (mm ²)	Dimensions (mm)						 x 100	 Bag	 Box
			ØE	ØI	ØT	R	L1	L			
111085	TDC/S-16/10 ¹	16	16,0	5,5	10,7	13,0	47,1	75,0	-	1	125
111090	TDC/S-16/12	16			12,9				5,300	1	125
111099	TDC/S-25/10 ¹	25		6,5	10,7				-	1	125
111100	TDC/S-25/12	25			12,9				5,000	1	125
111110	TDC/S-35/12 ¹	35		8,0	12,9				4,800	1	125
111118	TDC/S-50/8*	50	20,0	9,0	9,0	13,0	48,0	75,0	4,940	1	125
111119	TDC/S-50/10*	50			10,7				4,890	1	125
111120	TDC/S-50/12 * ¹	50		11,0	12,9				4,840	1	125
111130	TDC/S-70/12 ¹	70			10,7				4,300	1	125
111139	TDC/S-95/10*	95		12,5	10,7				4,250	1	125
111140	TDC/S-95/12 * ¹	95			12,9				4,240	1	125
111150	TDC/S-120/12 ¹	120	25,0	13,7	12,9	15,0	65,0	98,0	9,210	1	80
111159	TDC/S-150/10 *	150			10,7				8,740	1	80
111160	TDC/S-150/12 * ¹	150		15,5	10,7				8,640	1	80
111170	TDC/S-185/12 * ¹	185	32,0	17,0	12,9	18,0	65,0	104,0	15,000	1	50
111179	TDC/S-240/10 *	240			10,7				14,625	1	50
111180	TDC/S-240/12 * ¹	240		19,5	12,9				14,500	1	50
111184	TDC/S-300/10	300	40,0	23,3	10,7	20,0	100,0	145,0	30,750	1	32
111185	TDC/S-300/12	300			12,9				30,600	1	32
111186	TDC/S-300/16 ¹	300			16,7				28,400	1	32
111189	TDC/S-400/10	400		26,0	10,7				28,250	1	32
111190	TDC/S-400/12	400			12,9				-	1	32
111191	TDC/S-400/16 ¹	400		26,0	16,7				-	1	32

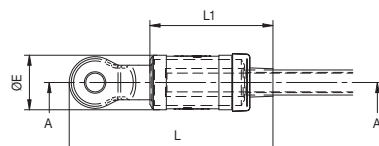
(*) Dimensions and tolerances according to UNE 211024.

(1) Dimensions according to DMA-C33-853/N.

Bimetallic Connectors

Connection

CONNECTION CATALOGUE 2023



112 TDC/S KIT

Insulated bimetallic terminals

The kit consists of:

- TDC/S terminal manufactured from aluminium alloy bar of 99.5% purity or higher with electrolytic tin plating treatment. Complies with the UNE 211024-2 standard and AENOR  certificated.
- Synthetic rubber insulating sleeve.
- Phase or neutral identification rings.
- Connection washers.

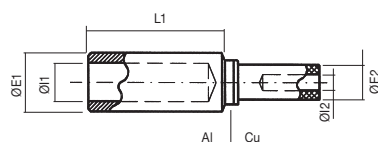


Code	Ref.	Section (mm ²)	Strip Length	Dimensions (mm)			 x 100	 Bag	 Box
				ØE	L	L1			
111118 K	TDC/S-50/8 K	50	45	26	100	51	8,000	1	40
111119 K	TDC/S-50/10 K						8,700	1	40
111120 K	TDC/S-50/12 K						8,300	1	40
111139 K	TDC/S-95/10 K	95	45				8,100	1	40
111140 K	TDC/S-95/12 K						7,800	1	40
111159 K	TDC/S-150/10 K	150	60	31	128	68	12,000	1	30
111160 K	TDC/S-150/12 K						12,700	1	30
111180 K	TDC/S-240/12 K	240	60	38	140	86	19,300	1	25

Bimetallic Connectors

Connection

CONNECTION CATALOGUE 2023



130 MBI

Bimetallic joint

MBI bimetallic joint manufactured from aluminium alloy of purity equal or higher than 99.5% and electrolytic copper tube. The two parts of the bimetallic connector are joined through a friction stir welding process. Incorporates neutral grease in the aluminium part hole to avoid its oxidation.

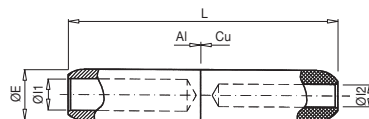
Code	Ref.	Section (mm ²)		Dimensions (mm)					Kg x 100	Bag	Box
		Al	Cu	ØE1	ØI1	L1	ØE2	ØI2			
130097	MBI-50/16	50	16	20,0	9,0	48,0	12,2	5,5	6,020	1	25
130100	MBI-50/25		25			48,0	12,2	7,0	6,500	1	25
130101	MBI-50/35		35			48,0	12,2	8,0	5,210	1	25
130107	MBI-95/16	95	16	20,0	12,5	48,0	12,2	5,5	6,200	1	25
130108	MBI-95/25		25			48,0	12,2	7,0	5,800	1	25
130109	MBI-95/35		35			48,0	12,2	8,0	4,440	1	25
130110	MBI-95/50		50			48,0	12,2	9,5	5,000	1	25
130111	MBI-95/70		70			48,0	21,0	11,0	11,900	1	25
130117	MBI-150/16	150	16	25,0	15,5	65,0	12,2	5,5	8,070	1	20
130118	MBI-150/25		25			65,0	12,2	7,0	7,760	1	20
130119	MBI-150/35		35			65,0	12,2	8,0	7,260	1	20
130120	MBI-150/50		50			65,0	12,2	9,5	8,500	1	20
130125	MBI-150/70		70			65,0	21,0	11,0	13,910	1	20
130130	MBI-150/95		95			65,0	21,0	13,0	14,300	1	20
130132	MBI-150/120		120			65,0	21,0	14,2	11,740	1	20
130142	MBI-240/16	240	16	32,0	19,5	65,0	12,2	5,5	11,640	1	10
130133	MBI-240/25		25			65,0	12,2	7,0	13,300	1	10
130134	MBI-240/35		35			65,0	12,2	8,0	10,830	1	10
130135	MBI-240/50		50			65,0	12,2	9,5	12,900	1	10
130136	MBI-240/70		70			65,0	12,2	11,0	17,480	1	10
130137	MBI-240/95		95			65,0	21,0	13,0	18,000	1	10
130138	MBI-240/120		120			65,0	21,0	14,2	15,310	1	10
130140	MBI-240/150		150			65,0	21,0	16,0	16,500	1	10
130141	MBI-240/185		185			65,0	26,0	18,0	21,170	1	10

Other sections under request.

Bimetallic Connectors

Connection

CONNECTION CATALOGUE 2023



135 RJAU

Bimetallic joint

RJAU bimetallic joint manufactured from aluminium alloy of purity equal or higher than 99.5% and electrolytic copper tube. The two parts of the bimetallic connector are joined through a friction stir welding process. Incorporates neutral grease in the aluminium part hole to avoid its oxidation.

According to NF C33-090-1 standard.

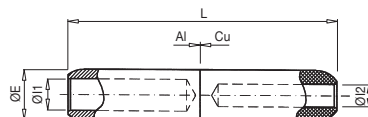
Code	Ref.	Section (mm ²)		Dimensions (mm)				Kg x 100	Bag	Box
		Al	Cu	ØE	ØI1	ØI2	L			
135100	RJ1AU-50/25	50	25	20	9	7	106,5	18,402	1	25
135101	RJ1AU-50/35		35			8		17,504	1	25
135157	RJ1AU-70/35	70	35	20	11	8	106,5	17,050	1	25
135105	RJ1AU-70/50		50			9,5		16,360	1	25
135110	RJ1AU-95/50	95	50	20	12,5	9,5	106,5	15,930	1	25
135111	RJ1AU-95/70		70			11		14,310	1	25
135114	RJ2AU-120/50	120	50	25	13,7	9,5	133	28,960	1	15
135115	RJ2AU-120/70		70			11		27,340	1	15
135116	RJ2AU-120/95		95			13		25,910	1	15
135124	RJ2AU-150/70	150	70	25	15,5	11	133	26,510	1	15
135130	RJ2AU-150/95		95			13		25,080	1	15
135121	RJ2AU-150/120		120			14,2		23,810	1	15
135167	RJ4AU-185/95		95	32	17,0	13	143,5	48,110	1	8
135154	RJ4AU-185/120	185	120			14,2		46,910	1	8
135168	RJ4AU-185/150		150			16		44,710	1	8

Other sections under request.

Bimetallic Connectors

Connection

CONNECTION CATALOGUE 2023



135 RJAU

Bimetallic joint

RJAU bimetallic joint manufactured from aluminium alloy of purity equal or higher than 99.5% and electrolytic copper tube. The two parts of the bimetallic connector are joined through a friction stir welding process. Incorporates neutral grease in the aluminium part hole to avoid its oxidation.

According to NF C33-090-1 standard.

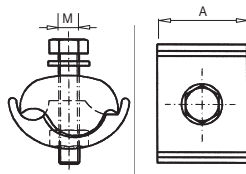
Code	Ref.	Section (mm ²)		Dimensions (mm)				Kg x 100	Bag	Box
		Al	Cu	ØE	Ø1	Ø2	L			
135137	RJ4AU-240/95	240	95	32	19,5	13	143,5	46,409	1	8
135138	RJ4AU-240/120		120			14,2		45,290	1	8
135140	RJ4AU-240/150		150			16		43,009	1	8
135144	RJ4AU-240/185		185			18		41,109	1	8
135177	RJ5AU-300/150	300	150	40	23,3	16	218	73,810	1	-
135178	RJ5AU-300/185		185			18		71,810	1	-
135179	RJ5AU-300/240		240			20		68,110	1	-
135188	RJ5AU-400/185	400	185	40	26,0	18	218	69,450	1	-
135189	RJ5AU-400/240		240			20		65,750	1	-
135190	RJ5AU-400/300		300			23		59,150	1	-
135191	RJ5AU-400/400		400			-		-	1	-

Other sections under request.

Compression and Mechanical Clamps

Connection

CONNECTION CATALOGUE 2023

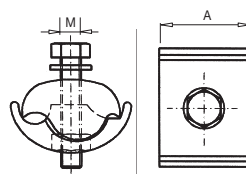


155 LB

Bolt-fastened compression clamp

LB clamps are manufactured from aluminium smelting. Stainless steel screws.

Code	Ref.	Main		Tap		Dimensions (mm)		Kg x 100	Bag	Box
		Max.	Min.	Max.	Min.	A	M			
155100	LB-1	50	6	35	6	29	6	4,060	10	40
155110	LB-2	120	50	35	6	35	8	10,950	10	20
155120	LB-3	185	50	70	10	44	10	18,250	10	10
155130	LB-4	70	25	70	25	32	8	9,400	10	20
155140	LB-5	150	95	95	25	41	10	16,600	5	10
155150	LB-6	150	70	150	70	40	10	16,550	5	10
155160	LB-7	240	95	240	50	50	12	27,300	5	5



156 LBE-ID

Bolt-fastened tinplated compression clamp

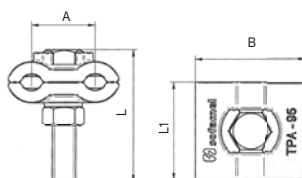
LBE-ID clamps are made from cast aluminium with a 20 µ tinplated finish. Stainless steel hardware.

Code	Ref.	Main		Tap		Dimensions (mm)		Kg x 100	Bag	Box
		Max.	Min.	Max.	Min.	A	M			
155001	LBE-2-ID	120	50	35	6	29	8	10,950	1	25
155002	LBE-3-ID	185	50	70	10	35	10	18,250	1	10
155003	LBE-4-ID	70	25	70	25	44	8	9,400	1	25

Compression and Mechanical Clamps

Connection

CONNECTION CATALOGUE 2023

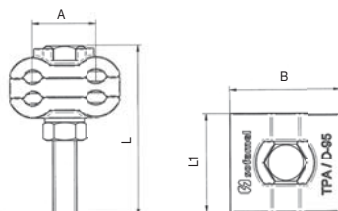


155 TPA

Bolt-fastened compression clamp

TPA clamps are made from aluminium alloy with a 20 µ tinplated finish. M12 stainless steel hardware.

Code	Ref.	Section	Dimensions (mm)				 x 100	 Bag	 Box
			A	B	L	L1			
156100	TPA-95	2 x 95	33	57	68	50	18,48	1	10



155 TPA/D

Bolt-fastened compression clamp

TPA/D clamps are made from aluminium alloy with a 20 µ tinplated finish. M12 stainless steel hardware.

Code	Ref.	Section	Dimensions (mm)				 x 100	 Bag	 Box
			A	B	L	L1			
156110	TPA/D-95	4 x 95	33	57	88	50	26,04	1	5

Compression and Mechanical Clamps

Connection

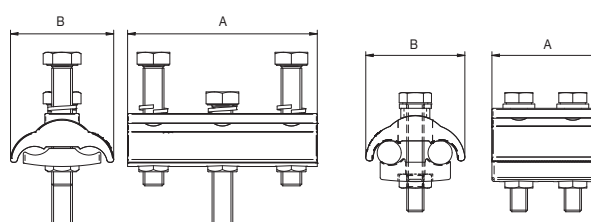
CONNECTION CATALOGUE 2023



157 PGC/B

Bolt-fastened tinned compression clamp

PGC/B bimetallic clamps are manufactured in cast aluminium with 20 µm tinned finish. Fasteners in stainless steel.



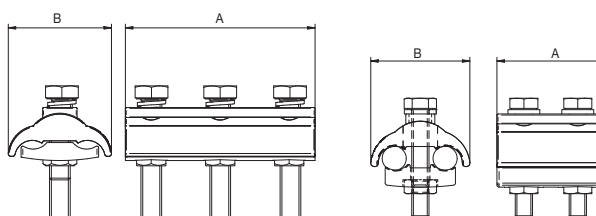
Code	Ref.	Main AL		Tap CU		Dimensions (mm)		Kg x 100	Bag	Box
		Min.	Max.	Min.	Max.	A	B			
155205	PGC/B2-8	25	150	10	95	80	50	14,0	1	0
155203	PGC/B3-10	35	300	25	240	110	60	55,4	1	0



157 PGC/A

Bolt-fastened compression clamp

PGC/A mechanical clamps are manufactured in cast aluminium. Fasteners in stainless steel.

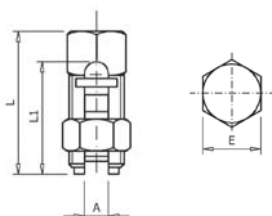


Code	Ref.	Main		Dimensions (mm)		Kg x 100	Bag	Box
		Min.	Max.	A	B			
155206	PGC/A2-8	16	150	80	50	13,5	1	0
155201	PGC/A3-10	35	300	110	60	54,8	1	0

Split-bolt Connectors

Connection

CONNECTION CATALOGUE 2023

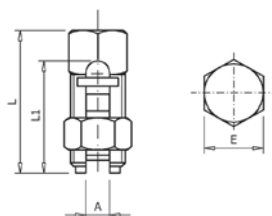


160 APB

Bimetallic split-bolt connector

APB split-bolt connector manufactured from brass with tinplated finish to improve electrical contact. Incorporates a buffer stop to differentiate cable connections.

Code	Ref.	Main		Tap		Dimensions (mm)				x 100	Bag	Box
		Max.	Min.	Max.	Min.	L	L1	E	A			
160100	APB-25/25	25	16	25	2,5	42,0	34,0	16,9	7,2	7,480	10	60
160110	APB-35/35	35	16	35	2,5	42,0	34,0	16,9	7,4	8,034	10	60
160120	APB-50/50	50	25	50	2,5	46,6	37,6	18,0	9,6	8,800	10	40
160130	APB-70/70	70	35	70	2,5	49,0	42,5	20,0	11,0	9,600	10	40
160140	APB-120/120	120	50	120	10	61,1	53,2	26,9	15,3	11,200	5	15



165 APC

Copper split-bolt connector

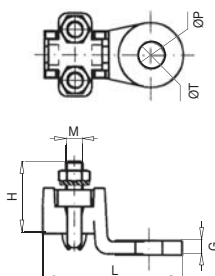
APC split-bolt connector manufactured from brass with a copperplated finish to improve electrical contact.

Code	Ref.	Main		Tap		Dimensions (mm)				x 100	Bag	Box
		Max.	Min.	Max.	Min.	L	L1	E	A			
165010	APC-6/6	6	4	6	1,5	24,0	19,0	10,0	3,6	1,670	25	200
165020	APC-10/6	10	6	10	2,5	27,4	21,8	12,0	4,5	2,790	25	150
165030	APC-16/16	16	10	16	2,5	34,0	22,7	13,0	5,6	3,820	25	100
165040	APC-25/25	25	16	25	2,5	41,8	33,1	17,0	7,2	6,840	10	50
165090	APC-35/35	35	16	35	2,5	41,8	33,8	17,0	7,4	6,640	10	40
165100	APC-50/50	50	25	50	2,5	46,4	38,0	18,0	9,6	7,780	10	40
165110	APC-70/70	70	35	70	2,5	49,4	42,2	20,0	10,8	8,500	10	30
165115	APC-95/95	95	50	95	10	53,7	46,4	24,0	12,1	9,300	10	20
165120	APC-120/120	120	50	120	10	60,5	53,5	26,7	15,3	10,100	5	15
165130	APC-185/185	185	70	185	70	69,1	61,0	30,0	17,6	11,000	5	10
165140	APC-240/240	240	70	240	70	75,6	68,0	35,4	21,5	12,500	5	10

Setscrew Connectors

Connection

CONNECTION CATALOGUE 2023

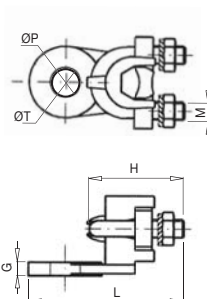


180 TR

Setscrew joint straight entry

TR screw terminal manufactured from brass with galvanized steel yokes and screws.

Code	Ref.	Ø Bar (mm)		Cable (mm²)		Dimensions (mm)						Kg x 100	Bag	Box
		Max.	Min.	Max.	Min.	H	L	M	ØP	ØT	G			
180100	TR-10/50	10	4	70	10	31	52	5	26,5	13	5	6,500	-	40
180110	TR-25/120	14	6	120	16	42	68	8	32,5	13	7	18,600	-	20
180120	TR-70/150	16	10	150	25	54	77	8	35,5	13	6	23,400	-	15
180130	TR-150/240	20	14	240	120	42	78	6	41,0	16	6	22,100	-	10
180140	TR-240/400	24	20	400	240	53	105	7	54,0	18	8	47,700	-	5



185 TRE

Setscrew joint 90° entry

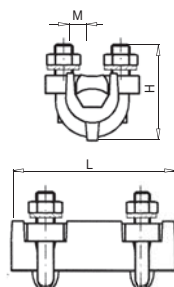
TRE screw terminal manufactured from brass with galvanized steel yokes and screws. Its particular orientation makes it suitable for installations where connection needs a specific placement.

Code	Ref.	Ø Bar (mm)		Cable (mm²)		Dimensions (mm)						Kg x 100	Bag	Box
		Max.	Min.	Max.	Min.	H	L	M	ØP	ØT	G			
185100	TRE-10/50	10	4	70	10	31	57	5	26,5	12,5	5,5	6,700	-	40
185110	TRE-25/120	14	6	120	16	42	68	8	32,5	12,5	6,0	18,500	-	20

Setscrew Connectors

Connection

CONNECTION CATALOGUE 2023

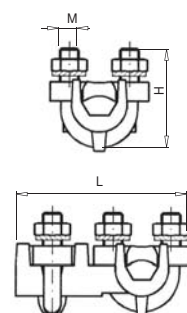
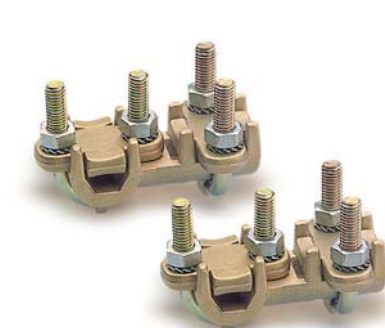


190 TRM

Setscrew joint

TRM setscrew joint manufactured from brass with galvanized steel yokes and screws.

Code	Ref.	Ø Bar (mm)		Cable (mm²)		Dimensions (mm)			x 100	Bag	Box
		Max.	Min.	Max.	Min.	H	L	M			
190100	TRM-10/50	10	4	50	10	31	47	5	8,600	-	35
190110	TRM-25/120	14	6	120	16	42	65	8	25,350	-	15
190120	TRM-70/150	16	10	150	25	55	70	8	33,800	-	10



195 TRT

Tap setscrew joint

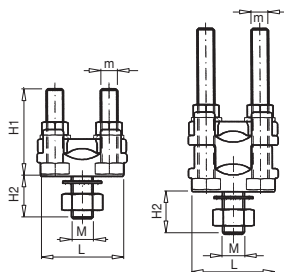
TRT setscrew joint manufactured from brass with galvanized steel yokes and screws.

Code	Ref.	Ø Bar (mm)		Cable (mm²)		Dimensions (mm)			x 100	Bag	Box
		Max.	Min.	Max.	Min.	H	L	M			
195100	TRT-10/50	10	4	50	10	31	52,0	5	8,800	-	35
195110	TRT-25/120	14	6	120	16	42	73,0	8	26,700	-	15
195120	TRT-70/150	16	10	150	25	52	82,5	8	34,700	-	10

Setscrew Connectors

Connection

CONNECTION CATALOGUE 2023



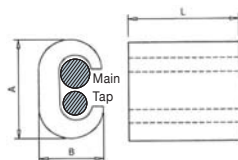
200 TRF

Turret bimetallic clamp

TRF and TRF/D bimetallic clamp manufactured from brass with tinplated finish to improve electrical contact. Suitable for electrical panel boards.

Code	Ref.	Ø Bar (mm)		Cable (mm ²)		Dimensions (mm)					Kg x 100	Bag	Box
		Max.	Min.	Max.	Min.	H1	H2	L	M	m			
200100	TRF-25/50	10	3	50	4	29	15,5	29	6	5	5,840	-	50
200110	TRF-50/80	12	4	95	6	34	1,08	33	8	6	9,900	-	30
200120	TRF-80/150	16	7	150	25	41	18,5	42	10	8	17,500	-	20
200130	TRF-150/240	20	10	240	50	48	20,0	52	12	10	32,800	-	10
200140	TRF/D-25/50	10	3	50	4	34	15,5	29	6	5	7,400	-	40
200150	TRF/D-50/80	12	4	95	6	65	16,5	33	8	6	15,700	-	20
200160	TRF/D-80/150	16	7	150	25	76	18,5	42	10	8	27,000	-	15
200170	TRF/D-150/240	20	10	240	50	88	20,0	52	12	10	57,000	-	6

sofamel

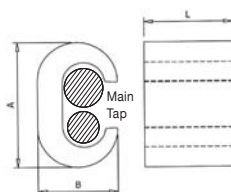


140 CRA

Aluminium compression clamp

CRA compression clamp manufactured from aluminium alloy of purity equal or higher than 99.5%. High versatility in different applications.

Code	Ref.	Main		Tap		Dimensions (mm)			Kg x 100	Bag	Box
		Max.	Min.	Max.	Min.	A	B	L			
140100	CRA-1	35	25	35	25	25,0	16,4	38,5	2,525	1	150
140110	CRA-2	70	50	50	50	35,0	22,0	65,0	6,880	1	100
140120	CRA-3	120	95	35	10	41,0	25,5	65,0	11,350	1	75
140122	CRA-3A	120	95	120	95	-	-	-	11,650	1	75
140130	CRA-4	185	150	95	70	51,9	31,5	65,0	12,150	1	50



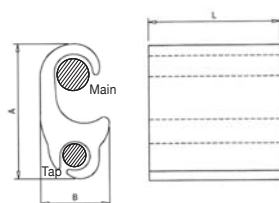
145 CRC

Copper compression clamp

CRC compression clamp manufactured from electrolytic copper. High versatility in different applications. According to EN 62561-1 standard.

Code	Ref.	Main		Tap		Dimensions (mm)			Kg x 100	Bag	Box
		Max.	Min.	Max.	Min.	A	B	L			
145120	CRC-3	25	10	6	4	18,6	11,7	17,5	1,918	50	300
145130	CRC-4	25	16	10	4	19,5	11,8	17,6	1,774	50	300
145140	CRC-5	25	16	25	16	20,5	12,0	17,7	1,790	50	250
145150	CRC-6	35	35	25	4	25,2	15,5	21,1	3,848	25	125
145160	CRC-7	35	35	35	16	26,7	15,2	21,3	3,612	25	125
145170	CRC-8	70	50	35	4	33,3	20,4	27,2	9,315	10	60
145180	CRC-9	70	50	70	35	34,2	20,5	27,2	8,545	10	60
145190	CRC-10	95	70	35	16	41,9	23,8	29,1	14,795	10	40
145200	CRC-11	95	70	70	35	41,0	25,1	29,4	14,002	10	40
145210	CRC-12	95	95	95	95	39,8	25,0	29,1	12,039	10	40
145220	CRC-13	120	120	120	25	44,1	27,2	30,0	15,579	10	40
145230	CRC-14	185	150	95	50	44,5	27,2	27,5	13,105	10	50
145240	CRC-15	150	150	150	70	45,1	27,9	30,2	10,685	5	30
145250	CRC-16*	185	120	185	95	53,7	33,2	35,2	25,700	5	25

* With rigid copper cable, it can also be the 240 mm² section (in the maximum of the principal)



151 CRS

Bimetallic compression clamp

CRS compression clamp manufactured from aluminium alloy of purity equal or higher than 99.5%. High versatility in different applications.

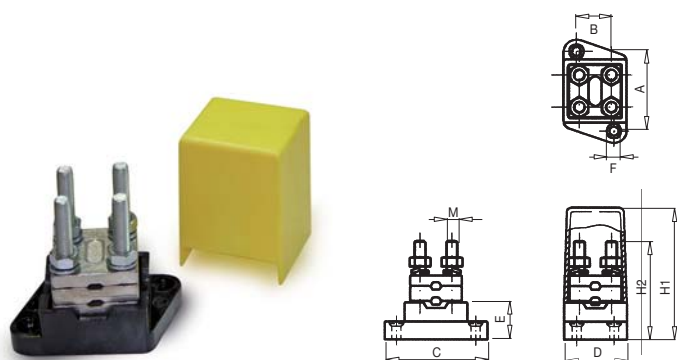
Code	Ref.	Main		Tap		Dimensions (mm)			 x 100	 Bag	 Box
		Max.	Min.	Max.	Min.	A	B	L			
151090	CRS-0	35	10	35	10	42,5	19,5	46,0	1,500	1	100
151100	CRS-1	35	16	10	2,5	24,8	14,0	18,0	0,840	1	200
151120	CRS-3	120	50	70	10	53,0	25,9	50,0	0,874	1	75
151170	CRS-8	120	95	120	70	50,0	22,1	50,0	0,747	1	75
151180	CRS-9	185	120	70	10	57,0	29,0	50,0	1,028	1	65
151190	CRS-10	240	120	150	70	56,0	28,7	100,0	1,998	1	40
151200	CRS-11	240	95	240	95	56,0	31,3	100,0	1,772	1	35
151210	CRS-12	300	240	70	10	56,6	31,7	50,0	1,088	1	60

sofamel

Studded Clamps

Connection

CONNECTION CATALOGUE 2023



220 BEB

Bimetallic clamp

BEB bimetallic clamp manufactured from brass with tinplated finish. The base is made of bakelite which grants a high temperature resistance.

Code	Ref.	Sections (mm²)		Dimensions (mm)									 x 100	 Bag	 Box
		Max.	Min.	A	B	C	D	E	F	H1	H2	M			
220100	BEB-63	70	70	42	22	56	34	20	4,0	63	53	6	16,200	-	12
220110	BEB-95	95	95	54	30	72	44	22	5,5	76	72	7	30,800	-	6
220120	BEB-150	150	150	66	40	84	54	25	5,5	87	82	7	45,600	-	3
220130	BEB-240	240	240	82	45	101	64	26	6,5	102	96	8	72,200	-	2

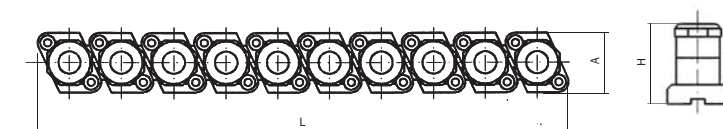


231 ADRI

Polyamide ten-pole strip block

ADRI strip block manufactured from 6.6 auto-extinguishing polyamide according to CE Directive. All terminals are supplied in ten-pole strips and are suitable for connections and panel boards applications.

CE

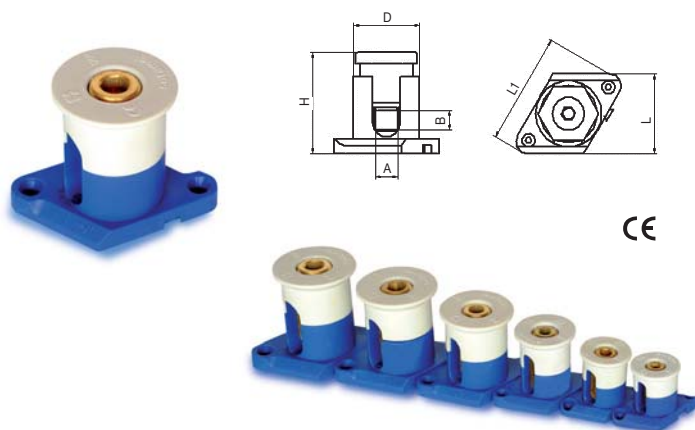


Code	Ref.	Section (mm ²)	Dimensions (mm)			Kg x 100	Bag	Box
			A	H	L1			
231100	ADRI-6	6	28,5	19,5	164	5,340	-	10
231110	ADRI-10	10	28,5	24,0	204	11,600	-	10
231120	ADRI-16	16	28,5	27,2	214	14,540	-	10
231130	ADRI-25	25	28,5	29,3	224	16,660	-	10
231140	ADRI-35	35	28,5	34,2	261	28,660	-	10

Studded Clamps

Connection

CONNECTION CATALOGUE 2023



233 BUS

Polyamide one-pole strip block



BUS strip block manufactured from 6.6 auto-extinguishing polyamide according to CE Directive. All terminals are linkable between them and are suitable for connections and panel boards applications.

Code	Ref.	Section (mm ²)	Dimensions (mm)						x 100	Bag	Box
			A	B	D	H	L	L1			
233130	BUS-10/16	10/16	6,5	10,0	25,0	40,0	33,0	48,0	2,600	-	50
233150	BUS-25/35	25/35	8,5	12,0	25,0	43,0	33,0	48,0	3,400	-	40
233160	BUS-50	50	10,0	14,5	31,5	52,0	40,0	58,0	5,300	-	25
233170	BUS-70	70	12,0	26,0	38,0	68,0	47,0	69,0	8,000	-	20
233180	BUS-95	95	13,0	30,0	45,0	56,0	51,0	83,0	11,300	-	15
233190	BUS-120	120	14,0	34,0	48,0	61,0	54,0	83,0	75,700	-	4
233200	BUS-150	150	21,0	34,0	52,0	80,0	73,5	122,0	14,100	-	15

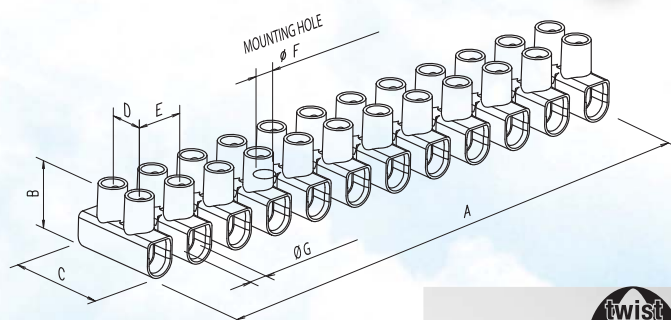
sofamel

Terminals strips

SKL

CONNECTION CATALOGUE 2023

- New polypropylene terminal strip **CE**
- Easy to divide
- Have **EN** AENOR certificate mark



315 SKL Terminal strip

SKL terminal strip manufactured from polypropylene with additives.
According to RoHS directive.



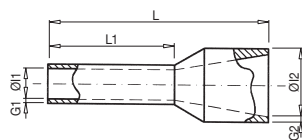
According to 60998-1/1993 and EN 60998-2-1 standards and all main certificates in Europe.

Code	Ref.	Colour	Section (mm²)	Metrics	Dimensions (mm)							Kg x 100	Bag	Box
					A	B	C	ØG	E	D	ØF			
315350	SKL-4	◇	4	M2,6	94,9	13,0	16,6	3,2	8,1	6,4	2,6	19,0	10	500
315360	SKL-6	◇	6	M3,0	116,5	14,9	18,9	3,6	10,0	7,3	3,4	26,5	10	250
315370	SKL-10	◇	10	M3,5	133,8	17,3	23,4	4,3	11,5	10,0	3,7	43,6	10	250
315380	SKL-16	◇	16	M4,0	174,5	20,7	25,0	5,5	15,0	11,0	4,9	76,8	10	100
315390	SKL-25	◇	25	M5,0	187,3	28,0	30,0	7,0	16,0	11,5	4,5	116,0	10	50
315400	SKL-35	◇	35	M5,0	211,0	29,6	36,4	8,0	18,0	15,0	4,5	174,6	10	50
315410	SKL-4N	◆	4	M2,6	94,9	13,0	16,6	3,2	8,1	6,4	2,6	19,0	10	500
315420	SKL-6N	◆	6	M3,0	116,5	14,9	18,9	3,6	10,0	7,3	3,4	26,5	10	250
315430	SKL-10N	◆	10	M3,5	133,8	17,3	23,4	4,3	11,5	10,0	3,7	43,6	10	250
315440	SKL-16N	◆	16	M4,0	174,7	20,7	25,0	5,5	15,0	11,0	4,9	76,8	10	100
315450	SKL-25N	◆	25	M5,0	187,3	28,0	30,0	7,0	16,0	11,5	4,5	116,0	10	50
315460	SKL-35N	◆	35	M5,0	211,0	29,6	36,4	8,0	18,0	15,0	4,5	174,6	10	50

Cord End Terminals

Connection

CONNECTION CATALOGUE 2023



Cord end terminal

APF cord end terminal manufactured from electrolytic copper capillary tube with a tinplated finish to improve electrical contact. The insulating part is made of polypropylene (PP).

245 APF - 246 APF - 250 APF

Section (mm ²)	L1	Code	Ref.	Colour		Code	Ref.	Colour		Code	Ref.	Colour		
				F				W				DIN		
0,50	8	245100	APF-0,50		WHITE	246100	APF-0,50 W		ORANGE	245100	APF-0,50		WHITE	
0,75	8	245110	APF-0,75		BLUE	246110	APF-0,75 W		WHITE	250110	APF-0,75 D		GREY	
1	8	245120	APF-1,00		RED	246120	APF-1,00 W		YELLOW	245120	APF-1,00		RED	
1,5	8	245130	APF-1,50		BLACK	246130	APF-1,50 W		RED	245130	APF-1,50		BLACK	
2,5	8	245140	APF-2,50		GREY	246140	APF-2,50 W		BLUE	246140	APF-2,50 W		BLUE	
4	10	245150	APF-4,00		ORANGE	246150	APF-4,00 W		GREY	246150	APF-4,00 W		GREY	
6	12	245160	APF-6,00		GREEN	246160	APF-6,00 W		BLACK	250160	APF-6,00 D		YELLOW	
10	12	245170	APF-10,00		BROWN	246170	APF-10,00 W		IVORY	250170	APF-10,00 D		RED	
16	12	245180	APF-16,00		IVORY	246180	APF-16,00 W		GREEN	250180	APF-16,00 D		BLUE	
25	16	245190	APF-25,00		BLACK	246190	APF-25,00 W		BROWN	250190	APF-25,00 D		YELLOW	
35	16	245200	APF-35,00		RED	246200	APF-35,00 W		BEIGE	245200	APF-35,00		RED	
50	20	245210	APF-50,00		BLUE	246210	APF-50,00 W		OLIVE	245210	APF-50,00		BLUE	

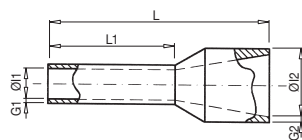
260 APF/L - 261 APF/L - 262 APF/L

0,50	10	260100	APF/L-0,50		WHITE	261100	APF/L-0,50 W		ORANGE	260100	APF/L-0,50		WHITE	
0,75	12	260110	APF/L-0,75		BLUE	261110	APF/L-0,75 W		WHITE	262110	APF/L-0,75 D		GREY	
1	12	260120	APF/L-1,00		RED	261120	APF/L-1,00 W		YELLOW	260120	APF/L-1,00		RED	
1,5	18	260130	APF/L-1,50		BLACK	261130	APF/L-1,50 W		RED	260130	APF/L-1,50		BLACK	
2,5	18	260140	APF/L-2,50		GREY	261140	APF/L-2,50 W		BLUE	261140	APF/L-2,50 W		BLUE	
4	18	260150	APF/L-4,00		ORANGE	261150	APF/L-4,00 W		GREY	261150	APF/L-4,00 W		GREY	
6	18	260160	APF/L-6,00		GREEN	261160	APF/L-6,00 W		BLACK	262160	APF/L-6,00 D		YELLOW	
10	18	260170	APF/L-10,00		BROWN	261170	APF/L-10,00 W		IVORY	262170	APF/L-10,00 D		RED	
16	18	260180	APF/L-16,00		IVORY	261180	APF/L-16,00 W		GREEN	262180	APF/L-16,00 D		BLUE	
25	22	260190	APF/L-25,00		BLACK	261190	APF/L-25,00 W		BROWN	262190	APF/L-25,00 D		YELLOW	
35	22	260200	APF/L-35,00		RED	261200	APF/L-35,00 W		BEIGE	260200	APF/L-35,00		RED	
50	25	260210	APF/L-50,00		BLUE	261210	APF/L-50,00 W		OLIVE	260210	APF/L-50,00		BLUE	

Cord End Terminals

Connection

CONNECTION CATALOGUE 2023



Cord end terminal

APF cord end terminal manufactured from electrolytic copper capillary tube with a tinplated finish to improve electrical contact. The insulating part is made of polypropylene (PP).

	Section (mm ²)	Dimensions (mm)						Kg x 1.000	Bag	Box
		L	L1	ØI1	G1	ØI2	G2			
	0,50	14,5	8	1,0	0,15	2,6	0,25	0,090	100	4000
	0,75	14,6	8	1,2	0,15	2,8	0,25	0,100	100	4000
	1	14,6	8	1,4	0,15	3,0	0,25	0,100	100	3500
	1,5	14,6	8	1,7	0,15	3,5	0,25	0,120	100	3000
	2,5	15,2	8	2,2	0,15	4,0	0,25	0,170	100	2500
	4	16,5	10	2,8	0,20	4,4	0,30	0,230	100	2000
	6	20,0	12	3,5	0,20	6,3	0,30	0,360	100	1000
	10	21,5	12	4,5	0,20	7,6	0,40	0,530	100	800
	16	22,2	12	5,8	0,20	8,8	0,40	0,740	100	500
	25	29,0	16	7,3	0,20	11,2	0,40	1,080	50	350
	35	30,0	16	8,3	0,20	12,5	0,50	1,250	50	250
	50	36,0	20	10,3	0,30	15,0	0,60	2,170	50	150

	0,50	16,0	10	1,0	0,15	2,6	0,25	0,090	100	3500
	0,75	18,4	12	1,2	0,15	2,8	0,25	0,120	100	3500
	1	18,4	12	1,4	0,15	3,0	0,25	0,130	100	3000
	1,5	24,4	18	1,7	0,15	3,5	0,25	0,200	100	2500
	2,5	25,0	18	2,2	0,15	4,0	0,25	0,260	100	2000
	4	25,5	18	2,8	0,20	4,4	0,30	0,360	100	1600
	6	26,0	18	3,5	0,20	6,3	0,30	0,690	100	800
	10	27,5	18	4,5	0,20	7,6	0,40	0,690	100	400
	16	28,2	18	5,8	0,20	8,8	0,40	0,980	100	300
	25	35,0	22	7,3	0,20	11,2	0,40	1,250	50	200
	35	39,0	22	8,3	0,20	12,5	0,50	1,550	50	200
	50	40,0	25	10,3	0,30	15,0	0,60	2,600	25	125

Cord End Terminals

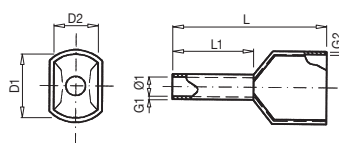
Connection

CONNECTION CATALOGUE 2023



Twin cord end terminal

APF/D cord end terminal manufactured from electrolytic copper capillary tube with a tinplated finish to improve electrical contact. The insulating part is made of polypropylene (PP). It is designed for electrical panel boards.



255 APF/D - 256 APF/D - 258 APF/D

Section (mm ²)	L1	Code	Ref.	Colour		Code	Ref.	Colour		Code	Ref.	Colour		
				F				W				DIN		
0,50	8	255100	APF/D-0,50 D		WHITE	256100	APF/D-0,50 W		ORANGE	255100	APF/D-0,50 D		WHITE	
0,75	8	258110	APF/D-0,75		BLUE	256110	APF/D-0,75 W		WHITE	255110	APF/D-0,75 D		GREY	
1	8	255120	APF/D-1,00 D		RED	256120	APF/D-1,00 W		YELLOW	255120	APF/D-1,00 D		RED	
1,5	8	255130	APF/D-1,50 D		BLACK	256130	APF/D-1,50 W		RED	255130	APF/D-1,50 D		BLACK	
2,5	10	258140	APF/D-2,50		GREY	255140	APF/D-2,50 D		BLUE	255140	APF/D-2,50 D		BLUE	
4	12	258150	APF/D-4,00		ORANGE	255150	APF/D-4,00 D		GREY	255150	APF/D-4,00 D		GREY	
6	14	258160	APF/D-6,00		GREEN	256160	APF/D-6,00 W		BLACK	255160	APF/D-6,00 D		YELLOW	
10	14	258170	APF/D-10,00		BROWN	256170	APF/D-10,00 W		IVORY	255170	APF/D-10,00 D		RED	
16	14	258180	APF/D-16,00		IVORY	256180	APF/D-16,00 W		GREEN	255180	APF/D-16,00 D		BLUE	

Cord End Terminals

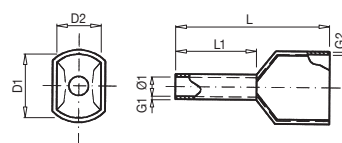
Connection

CONNECTION CATALOGUE 2023



Twin cord end terminal

APF/D cord end terminal manufactured from electrolytic copper capillary tube with a tinplated finish to improve electrical contact. The insulating part is made of polypropylene (PP). It is designed for electrical panel boards.



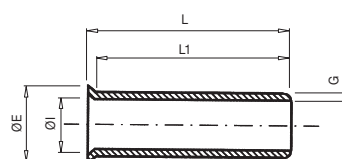
	Section (mm ²)	Dimensions (mm)							Kg x 1.000	Bag	Box
		ØI	D2	D1	L	L1	G1	G2			
	0,50	1,5	2,5	4,7	15,0	8,0	0,15	0,25	0,110	100	3500
	0,75	1,8	2,8	5,0	15,0	8,0	0,15	0,25	0,140	100	3000
	1	2,3	3,4	5,4	15,0	8,0	0,15	0,30	0,160	100	2500
	1,5	2,3	3,6	6,6	16,0	8,0	0,15	0,30	0,200	100	2000
	2,5	2,9	4,2	7,8	18,5	10,0	0,20	0,30	0,300	100	1000
	4	3,8	4,9	8,8	23,0	12,0	0,20	0,30	0,460	100	800
	6	4,9	6,9	10,0	26,0	14,0	0,20	0,40	0,640	100	500
	10	6,5	7,2	13,0	26,0	14,0	0,20	0,40	0,990	100	400
	16	8,3	9,6	18,4	30,0	14,0	0,30	0,40	1,450	100	200



265 PF

Non-insulated cord end terminal

PF cord end terminal manufactured from electrolytic copper capillary tube with a tinplated finish to improve electrical contact.

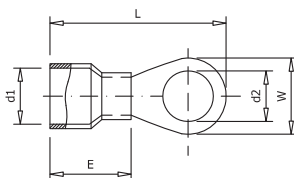


Code	Ref.	Section (mm ²)	Dimensions (mm)					Kg x 1.000	Bag	Box
			L	L1	ØI	ØE	G			
265100	PF-0,50/6	0,50	6,1	5,3	1,3	2,1	0,15	0,020	100	6000
265110	PF-0,75/6	0,75	6,1	5,3	1,7	2,5	0,15	0,050	100	6000
265120	PF-1,00/10	1,00	10,0	9,3	1,4	2,5	0,15	0,070	100	6000
265140	PF-1,50/10	1,50	10,0	9,0	1,7	2,8	0,15	0,080	100	6000
265160	PF-2,50/10	2,50	10,0	9,0	2,2	3,4	0,15	0,090	100	5000
265190	PF-4,00/12	4,00	12,0	11,0	2,8	4,0	0,20	0,180	100	4000
265200	PF-6,00/12	6,00	12,0	11,0	3,5	4,7	0,20	0,230	100	3300
265220	PF-10,00/18	10,00	18,0	17,0	4,5	5,8	0,20	0,460	100	2500
265240	PF-16,00/18	16,00	18,0	17,0	5,8	7,5	0,20	0,650	100	1000
265255	PF-25,00/22	25,00	22,5	21,0	7,7	9,5	0,20	0,810	100	800
265258	PF-35,00/25	35,00	25,5	24,0	8,7	11,0	0,20	1,170	100	500
265265	PF-50,00/25	50,00	25,5	24,0	10,9	13,5	0,20	1,720	50	250

Insulated Terminals

Connection

CONNECTION CATALOGUE 2023

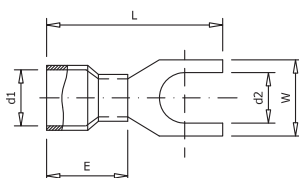


270 AT

Insulated ring terminal

AT terminal manufactured from electrolytic copper strap with PVC insulation.

Code	Ref.	Section (mm ²)	Metric	Dimensions (mm)					Kg x 1.000	Bag	Box
				d2	W	E	d1	L			
270100	AT-1,5/3	1,5	3	3,2	5,5	10,0	1,7	17,5	0,580	100	1600
270110	AT-1,5/4		4	4,3	6,6			19,4	0,620	100	1600
270120	AT-1,5/5		5	5,3	8,0			20,8	0,680	100	1600
270130	AT-1,5/6		6	6,4	10,0			23,0	0,850	100	1000
270140	AT-1,5/8		8	8,4	11,6			26,8	0,930	100	1000
270160	AT-2,5/3	2,5	3	3,2	6,6	10,0	2,3	17,8	0,708	100	1400
270170	AT-2,5/4		4	4,3	6,6			19,4	0,710	100	1400
270180	AT-2,5/5		5	5,3	8,5			21,8	0,829	100	1200
270190	AT-2,5/6		6	6,4	11,0			26,8	1,172	100	1000
270200	AT-2,5/8		8	8,4	11,8			26,8	1,000	100	1000
270220	AT-6/4	6,0	4	4,3	7,2	13,0	3,4	22,7	1,341	100	800
270230	AT-6/5		5	5,3	9,5			26,0	1,623	100	700
270240	AT-6/6		6	6,4	12,0			29,5	1,927	100	600
270250	AT-6/8		8	8,4	15,0			34,0	2,374	100	500



270 AU

Insulated fork terminal

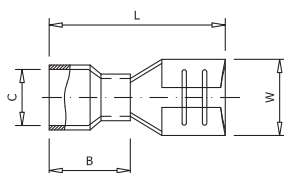
AU terminal manufactured from electrolytic copper strap with PVC insulation.

Code	Ref.	Section (mm ²)	Metric	Dimensions (mm)					Kg x 1.000	Bag	Box
				d2	W	E	d1	L			
275100	AU-1,5/3	1,5	3	3,2	5,7	10,0	1,7	21,0	0,660	100	1600
275110	AU-1,5/4		4	4,3	6,4			21,0	0,650	100	1600
275120	AU-1,5/5		5	5,3	8,1			21,0	0,680	100	1400
275130	AU-1,5/6		6	6,4	9,5			21,0	0,680	100	1400
275140	AU-1,5/8		8	-	-			-	1,000	100	1000
275160	AU-2,5/3	2,5	3	3,2	5,7	10,0	2,3	21,0	0,771	100	1400
275170	AU-2,5/4		4	4,3	6,4			21,0	0,748	100	1400
275180	AU-2,5/5		5	5,3	7,9			21,0	0,786	100	1200
275190	AU-2,5/6		6	6,4	9,3			21,0	0,781	100	1200
275200	AU-2,5/8		8	-	-			-	0,946	100	800
275220	AU-6/4	6,0	4	4,3	8,3	13,0	3,4	25,5	1,542	100	800
275230	AU-6/5		5	5,3	9,0			25,5	1,523	100	800
275240	AU-6/6		6	6,4	9,0			25,5	1,417	100	700
275250	AU-6/8		8	8,4	14,0			30,5	2,116	100	600

Insulated Terminals

Connection

CONNECTION CATALOGUE 2023

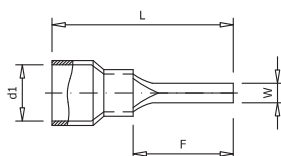


270 AFH

Insulated female connector

AFH connector manufactured from electrolytic copper strap with PVC insulation. Incorporates an inside fitting which provides a better security to stand possible mechanical vibrations.

Code	Ref.	Section (mm ²)	Dimensions (mm)				Kg x 1.000	Bag	Box
			W	L	B	C			
280100	AFH-1,5/2,8	1,5	3,2	19,0	10,5	1,7	0,604	100	1600
280120	AFH-1,5/4,8		5,0	19,4	10,5	1,7	0,754	100	1400
280130	AFH-1,5/6,3		6,6	20,8	10,5	1,7	0,874	100	1200
280140	AFH-2,5/4,8	2,5	5,0	19,4	10,5	2,3	0,942	100	1400
280150	AFH-2,5/6,3		6,6	20,8	10,5	2,3	1,022	100	1000
280160	AFH-6/6,3	6,0	6,6	23,3	13,0	3,4	1,534	100	700
280170	AFH-6/9,5		10,0	28,6	13,0	3,4	2,534	100	500

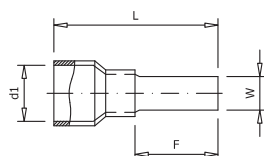


270 AP

Insulated pin terminal

AP terminal manufactured from electrolytic copper strap with PVC insulation.

Code	Ref.	Section (mm ²)	Dimensions (mm)				Kg x 1.000	Bag	Box
			W	F	L	d1			
285100	AP-1,5	1,5	1,9	10,0	20,0	1,7	0,670	100	2000
285130	APL-1,5		1,9	12,0	21,8	1,7	0,720	100	2000
285110	AP-2,5	2,5	1,9	10,0	20,0	2,3	0,752	100	1800
285140	APL-2,5		1,9	12,0	21,8	2,3	0,806	100	1800
285120	AP-6	6,0	2,8	13,0	27,0	3,4	1,639	100	800

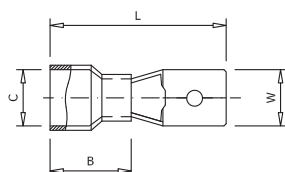


270 APP

Insulated blade terminal

APP terminal manufactured from electrolytic copper strap with PVC insulation.

Code	Ref.	Section (mm ²)	Dimensions (mm)				Kg x 1.000	Bag	Box
			W	F	L	d1			
290100	APP-1,5	1,5	2,8	9,0	18,8	1,7	0,580	100	1600
290130	APPL-1,5		2,2	18,0	27,8	1,7	0,660	100	1400
290110	APP-2,5	2,5	2,8	9,0	18,8	2,3	0,670	100	1600
290140	APPL-2,5		2,2	18,0	27,8	2,3	0,766	100	1400
290120	APP-6	6,0	2,8	10,0	23,0	3,4	1,221	100	900
290150	APPL-6		4,5	18,0	31,0	3,4	1,693	100	700

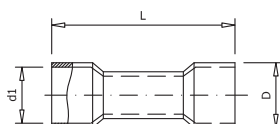


270 AFM

Insulated male connector

AFM connector manufactured from electrolytic copper strap with PVC insulation. Incorporates an inside fitting which provides a better security to stand possible mechanical vibrations.

Code	Ref.	Section (mm ²)	Dimensions (mm)				Kg x 1.000	Bag	Box
			W	L	B	C			
295100	AFM-1,5	1,5	6,35	21,8	10,5	1,7	0,794	100	1600
295110	AFM-2,5	2,5	6,35	21,8	10,5	2,3	0,882	100	1400
295120	AFM-6,0	6,0	6,35	24,0	13,0	3,4	1,494	100	800

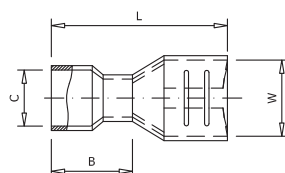


270 AML

Insulated butt-connector

AML butt-connector manufactured from electrolytic copper strap with PVC insulation. Incorporates an inside fitting which provides a better security to stand possible mechanical vibrations.

Code	Ref.	Section (mm ²)	Dimensions (mm)			Kg x 1.000	Bag	Box
			L	D	L			
300100	AML-1,5	1,5	24,2	4,0	1,7	0,840	100	1000
300110	AML-2,5	2,5	24,2	4,5	2,3	1,010	100	800
300120	AML-6	6,0	26,0	6,3	3,4	2,130	100	500

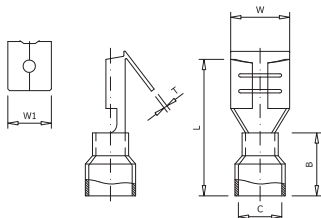


270 AFH/A

Fully insulated female connector

AFH/A connector manufactured from electrolytic copper strap with PVC insulation. Incorporates an inside fitting which provides a better security to stand possible mechanical vibrations.

Code	Ref.	Section (mm ²)	Dimensions (mm)				Kg x 1.000	Bag	Box
			W	L	B	C			
305100	AFH/A-1,5	1,5	6,6	21,8	10,5	1,7	1,094	100	800
305110	AFH/A-2,5	2,5		22,2	10,5	2,3	1,282	100	800
305120	AFH/A-6	6,0		24,2	12,5	3,4	1,764	100	500

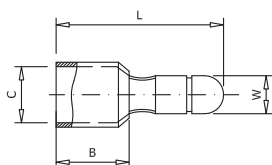


270 AFH/M

Insulated piggyback terminal

AFH/M terminal manufactured from electrolytic copper strap with PVC insulation. Incorporates an inside fitting which provides a better security to stand possible mechanical vibrations.

Code	Ref.	Section (mm ²)	Dimensions (mm)							Kg x 1.000	Bag	Box
			W	W1	L	B	C	T	Thickness			
305130	AFH/M-1,5	1,5	6,6	6,35	22,5	10,5	1,7	3,5	0,8	1,294	100	700
305140	AFH/M-2,5	2,5	6,6	6,35	22,5	10,5	2,3	4,3		1,442	100	700

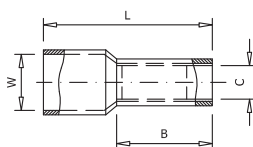


270 ACM

Insulated male bullet terminal

ACM terminal manufactured from electrolytic copper strap with PVC insulation. Incorporates an inside fitting which provides a better security to stand possible mechanical vibrations.

Code	Ref.	Section (mm ²)	Dimensions (mm)				Kg x 1.000	Bag	Box
			W	L	B	C			
305150	ACM-1,5	1,5	4,0	21,0	10,0	1,7	0,620	100	1600
305160	ACM-2,5	2,5				2,3	0,680	100	1600



270 ACH

Insulated socket connector

ACH connector manufactured from electrolytic copper strap with PVC insulation. Incorporates an inside fitting which provides a better security to stand possible mechanical vibrations.

Code	Ref.	Section (mm ²)	Dimensions (mm)				Kg x 1.000	Bag	Box
			W	L	B	C			
305170	ACH-1,5	1,5	3,9	23,8	10,0	2,7	1,010	100	1000
305180	ACH-2,5	2,5				3,2	0,980	100	1000

ABT/CT-150/150



ABT/CT-185/185-2
ABT/CT-240/240-2



ABT/CT-95/35
ABT/CT-95/95
ABT/CT-150/35
ABT/CT-240/120



ABT/CT-35/6
ABT/CT-95/10

136 ABT

Insulating piercing connector

ABT piercing connectors are made from 6.6 polyamide with fiberglass. Saw-shaped tabs are made from brass with a tinplated finish to improve electrical contact. Connection by piercing the main and tap cables.



Code	Ref.	Section (mm²)						
		Main		Tap		x 100	Bag	Box
136090	ABT/CT-35/6	10	35	1,5	6	6,150	1	-
136091	ABT/CT-95/10	10	95	1,5	10	6,180	1	-
136120	ABT/CT-95/35	16	95	2,5	35	14,840	1	-
136130	ABT/CT-150/35	35	150	6	35	15,810	1	-
136140	ABT/CT-95/95	25	95	25	95	15,890	1	-
136142	ABT/CT-150/150	35	150	35	150	34,630	1	-
136150	ABT/CT-185/185-2	35	185	35	185	54,460	1	-
136151	ABT/CT-240/120	120	240	25	120	26,500	1	-
136152	ABT/CT-240/240-2	95	240	95	240	59,330	1	-

137 PA-1000 and PA-1500

Line connection anchor

PA-1000 and PA-1500 line connection anchors are made from thermoplastic material with fibreglass and UV protection, both body and wedge. The fixing ring is made of stainless steel with protection thimble in plastic material.



Code	Ref.	Section (mm²)		Load daN	 x 100	 Bag	 Box
		Min.	Max.				
137099	PA-1000	29,5	35	1000	44,000	1	-
137100	PA-1500	54,6	80	1500	46,450	1	15

137 PA-2000

Line connection anchor

PA-2000 line connection anchors are made from body in aluminium alloy, a thermoplastic material wedge, and with fibreglass and UV protection. The fixing ring is made of stainless steel with protection thimble in plastic material.



Code	Ref.	Section (mm²)		Load daN	 x 100	 Bag	 Box
		Min.	Max.				
137105	PA-2000	54,6	80	2000	73,420	1	15

137 PA-25

Line connection anchor

PA-25 anchors are made from thermoplastic material with fibreglass, both body and wedge. The fixing ring is made of stainless steel.



Code	Ref.	Section (mm²)		Load daN	 x 100	 Bag	 Box
		Min.	Max.				
137120	PA-25	2x16	4x25	200	10,820	1	20

361 ES-1500

Suspension unit

The ES-1500 suspension unit is made up of an aluminium console and a plastic suspension clamp.



Code	Ref.	Section (mm²)		Load daN	 x 100	 Bag	 Box
		Min.	Max.				
361100	ES-1500	54,6	80	1500	27,080	1	-

361 PS-1500

Console

The PS-1500 suspension clamp is manufactured in thermoplastic material and is fitted with a sliding coupling to the console.



Code	Ref.	Section (mm ²)		Load daN	 x 100	 Bag	 Box
		Min.	Max.				
361110	PS-1500	54,6	80	1500	21,450	1	-

361 CS-1500

Console

CS-1500 consoles are manufactured in aluminium alloy with great mechanical strength with two holes for fastening.



Code	Ref.	Load daN	 x 100	 Bag	 Box
361120	CS-1500	1500	25,180	1	-

361 CA-1500

Console

CA-1500 consoles are manufactured in aluminium alloy with great mechanical strength with two holes for fastening.



Code	Ref.	Load daN	 x 100	 Bag	 Box
361130	CA-1500	1500	47,160	1	-



366 ARC

Plasticized support for lines

ARC supports are manufactured from plasticized stainless steel. No tool required for tightening. They are reusable. Especially designed for lines.

Code	Ref.	Capacity Ø mm	Wall distance (mm)	x 100	Bag	Box
366100	ARC-1	45	10	4,400	-	100
366110	ARC-2	45	60	5,900	-	100
366120	ARC-3	45	100	12,600	-	75
366130	ARC-25	52	10	4,900	-	100
366140	ARC-225	52	60	6,000	-	75
366150	ARC-2250	52	100	13,500	-	75
366160	ARC-35	68	10	5,400	-	150
366170	ARC-335	68	60	6,400	-	50
366180	ARC-3350	68	100	14,400	-	50



367 BIP

Plasticized support for line connections

BIP supports are manufactured from plasticized stainless steel. No tool required for tightening. They are reusable. Especially designed for line connections.

Code	Ref.	Capacity Ø mm	Wall distance (mm)	x 100	Bag	Box
367100	BIP-120 CF	10 to 22	10	10	-	100
367110	BIP-180 CF	10 to 42	10	10	-	100

For concrete or wooden posts

367120	BIP-120 CV	10 to 22	10	10	-	100
367130	BIP-180 CV	10 to 42	10	10	-	100

Nail plug included.



370 CCS

Flexible santoprene end cap

CCS flexible end caps are manufactured from Santoprene with UV protection. They are suitable for cable end protection avoiding deterioration and humidity.

Code	Ref.	Cable section (mm)	Length (mm)	x 100	Bag	Box
370100	CCS-6/35	6 to 35	30	0,200	-	100
370110	CCS-25/185	25 to 185	80	0,840	-	100



369 ES

Flexible PVC end cap

ES flexible end caps are manufactured from PVC with UV protection. They are suitable for cable end protection avoiding deterioration and humidity.

Code	Ref.	Ø mm	Length (mm)	 x 100	 Bag	 Box
369100	ES-7	7	50	0,250	-	100
369110	ES-9	9	50	0,400	-	100
369120	ES-10	10	60	0,800	-	100
369130	ES-11	11	60	0,800	-	100
369140	ES-12	12	60	0,800	-	100
369150	ES-13	13	60	0,800	-	100
369160	ES-14	14	60	0,800	-	100
369170	ES-17	17	65	1,200	-	100
369180	ES-20	20	70	1,800	-	100
369190	ES-25	25	70	1,800	-	100
369200	ES-30	30	80	3,500	-	100
369210	ES-36	36	80	3,500	-	100
369220	ES-40	40	100	5,600	-	100
369230	ES-52	52	120	9,500	-	100



368 MULTI

Plasticized tie

MULTI supports are manufactured from plasticized steel. No tool required for tightening. They are reusable.

Code	Ref.	Capacity Ø mm	Length x Width (mm)	 x 100	 Bag	 Box
368100	MULTI-50	8 to 17	110x10	0,800	100	-
368110	MULTI-100	18 to 25	125x10	0,900	100	-
368120	MULTI-150	26 to 35	150x20	1,800	50	-
368130	MULTI-200	36 to 42	175x20	2,000	50	-
368140	MULTI-300	43 to 52	225x20	1,380	50	-
368150	MULTI-400	53 to 62	250x20	1,520	50	-

362 Pigtail hooks and eyebolts

Pigtail hooks and eyebolts are manufactured from high-resistance cold-rolled steel, protected against corrosion.



Code	Ref.	Dimensions (mm)	Pillar	Protection	Bag	Box
362100	GDPA-32R	M 10x320	200	Zn+plasticized	1	-
362110	GDPA-40R	M 10x400	280	Zn+plasticized	1	-



Code	Ref.	Dimensions (mm)	Pillar	Protection	Bag	Box
362120	GGA-18R	M 12x180	160	Galvanized	1	-
362130	GGA-24R	M 12x240	220	Galvanized	1	-



Code	Ref.	Dimensions (mm)	Pillar	Protection	Bag	Box
362140	GDPL-32R	M 16x320	190	Zn+plasticized	1	-
362150	GDPL-40R	M 16x400	270	Zn+plasticized	1	-



Code	Ref.	Dimensions (mm)	Pillar	Protection	Bag	Box
362160	GGL-18R	M 16x180	160	Galvanized	1	-
362170	GGL-24R	M 16x240	220	Galvanized	1	-
362180	GGL-30R	M 16x300	280	Galvanized	1	-



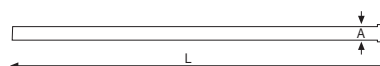
Code	Ref.	Dimensions (mm)	Pillar	Protection	Bag	Box
362190	ORL-18R	M 16x180	160	Galvanized	1	-
362200	ORL-20R	M 16x200	180	Galvanized	1	-
362210	ORL-24R	M 16x240	220	Galvanized	1	-
362220	ORL-28R	M 16x280	260	Galvanized	1	-



335 BR

Polyamide 6 cable tie

BR cable ties are manufactured from 6.6 polyamide. Available in black or natural.



Code	Ref.	Dimensions (mm)		Colour		
		L	A		Bag	Box
335100	BRB-80.24	80	2,4	Natural	100	-
335110	BRB-100.25	100	2,5		100	-
335120	BRB-140.25	140			100	-
335130	BRB-160.25	160			100	-
335140	BRB-200.25	200			100	-
335150	BRB-150.36	150			100	-
335160	BRB-200.36	200	3,6		100	-
335170	BRB-250.36	250			100	-
335180	BRB-300.36	300			100	-
335190	BRB-370.36	370			100	-
335200	BRB-190.48	190			4,8	100
335210	BRB-250.48	250	100			-
335220	BRB-280.48	280	100			-
335230	BRB-370.48	370	100			-
335240	BRB-390.48	390	100			-
335250	BRB-200.76	200	7,6		100	-
335260	BRB-250.76	250			100	-
335270	BRB-300.76	300			100	-
335280	BRB-380.76	380			100	-
335290	BRN-80.24	80		2,4	Black	100
335300	BRN-100.25	100	2,5	100		-
335310	BRN-140.25	140		100		-
335320	BRN-160.25	160		100		-
335330	BRN-200.25	200		100		-
335340	BRN-150.36	150		3,6		100
335350	BRN-200.36	200	100			-
335360	BRN-250.36	250	100			-
335370	BRN-300.36	300	100			-
335380	BRN-370.36	370	100			-
335390	BRN-200.48	200	4,8	100		-
335400	BRN-250.48	250		100		-
335410	BRN-280.45	280		100		-
335420	BRN-370.48	370		100		-
335430	BRN-390.48	390		100		-
335440	BRN-200.76	200	7,6	100		-
335450	BRN-250.76	250		100		-
335460	BRN-300.76	300		100		-
335470	BRN-380.76	380		100		-



101

102

103

340 SAP

Self-adhesive mount

SAP mounts are manufactured from polyamide. Ideal to fix to a surface, no tool required for installation.

Code	Ref.	Length x Width (mm)	Colour	Bag	Box
340100	SAP-101	21x21	Natural	100	-
340110	SAP-101-N	21x21	Black	100	-
340120	SAP-102	28x28	Natural	100	-
340130	SAP-102-N	28x28	Black	100	-
340140	SAP-103	28x28	Natural	100	-
340150	SAP-103-N	28x28	Black	100	-



ST-1

ST-2

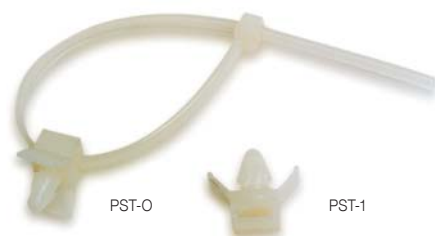
ST-0

340 ST

Screw type mount

ST mounts are manufactured from polyamide. Ideal to fix material to a surface which needs more resistance.

Code	Ref.	Length x Width (mm)	Colour	Bag	Box
345100	ST-0	19x9,5	Natural	100	-
345110	ST-0-N	19x9,5	Black	100	-
345120	ST-1	15x10	Natural	100	-
345130	ST-1-N	15x10	Black	100	-
345140	ST-2	23x16	Natural	100	-
345150	ST-2-N	23x16	Black	100	-



340 PST

Mounts by pressure

PST mounts are manufactured from polyamide and are perfect to fix to a surface, no tool required for installation.

Code	Ref.	Width (mm)	Colour	 Bag	 Box
350100	PST-0	4	Natural	100	-
350110	PST-1	8	Natural	100	-



355 EC

Nail plugs

EC nail plugs are manufactured from polyamide and designed for cable ties' fixing. Easy surface fixing by percussion.

Code	Ref.	Width (mm)	Colour	 Bag	 Box
355100	EC-8	9	Black	100	-

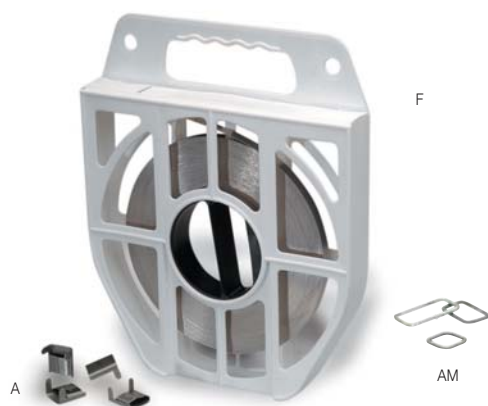


355 CD

Nail plugs

CD nail plugs are manufactured from polyamide for wall fixing.

Code	Ref.	Ø mm	Length (mm)	 Bag	 Box
355110	CD-8	8	40	100	-
355120	CD-10	10	50	100	-
355130	CD-12	12	60	100	-
355140	CD-14	14	70	100	-
355150	CD-16	16	75	100	-



371 F / A / AM

Strap and fittings

Z12 CN 1707 Stainless steel strap incorporates a dispenser which facilitates its transportation.

Code	Ref.	Width x Thickness (mm)	Length (m)	 x 1	 Bag	 Box
371100	F-104	10 x 0,4	50	1,600	-	1
371110	F-107	10 x 0,7	50	2,700	-	1
371120	F-204	20 x 0,4	50	3,400	-	1
371130	F-207	20 x 0,7	50	5,800	-	1

Code	Ref.	Width (mm)	 x 1	 Bag	 Box
371140	A-100	10	0,500	100	-
371150	A-200	20	0,900	100	-

Code	Ref.	Capacity (mm)	 x 1	 Bag	 Box
371160	AM-25	25 x 25	1,400	100	-
371170	AM-40	25 x 40	1,900	100	-
371180	AM-60	25 x 60	2,450	100	-



371 OPL

Strapping tool

Tool for stainless steel cable strapping easy to use.

Code	Ref.	 x 100	 Bag	 Box
406100	OPL	145	-	1



371 OPC

Strap cutter

Cutter tool for stainless steel strap.

Code	Ref.	 x 100	 Bag	 Box
406110	OPC	70	-	1



376 TPF

Thin-walled universal heat shrink tube

TPF tube with excellent electrical and mechanical properties. Without adhesive.

Code	Ref.	Contraction Ø mm	Colour	Length (m)	Thickness (mm)	Bag	Box
376100	TPF-2,4/1,2 N	2,4 to 1,2	Black	10	0,50	-	1
376110	TPF-2,4/1,2 A		Blue	10	0,50	-	1
376120	TPF-2,4/1,2 G		Grey	10	0,50	-	1
376130	TPF-2,4/1,2 M	3,2 to 1,6	Brown	10	0,50	-	1
376140	TPF-3,2/1,6 N		Black	10	0,50	-	1
376150	TPF-3,2/1,6 A		Blue	10	0,50	-	1
376160	TPF-3,2/1,6 G		Grey	10	0,50	-	1
376170	TPF-3,2/1,6 M	4,8 to 2,4	Brown	10	0,50	-	1
376180	TPF-4,8/2,4 N		Black	8	0,50	-	1
376190	TPF-4,8/2,4 A		Blue	8	0,50	-	1
376200	TPF-4,8/2,4 G		Grey	8	0,50	-	1
376210	TPF-4,8/2,4 M	6,4 to 3,2	Brown	8	0,50	-	1
376220	TPF-6,4/3,2 N		Black	6	0,60	-	1
376230	TPF-6,4/3,2 A		Blue	6	0,60	-	1
376240	TPF-6,4/3,2 G		Grey	6	0,60	-	1
376250	TPF-6,4/3,2 M	9,5 to 4,8	Brown	6	0,60	-	1
376260	TPF-9,5/4,8 N		Black	5	0,60	-	1
376270	TPF-9,5/4,8 A		Blue	5	0,60	-	1
376280	TPF-9,5/4,8 G		Grey	5	0,60	-	1
376290	TPF-9,5/4,8 M	12,7 to 6,4	Brown	5	0,60	-	1
376300	TPF-12,7/6,4 N		Black	5	0,60	-	1
376310	TPF-12,7/6,4 A		Blue	5	0,60	-	1
376320	TPF-12,7/6,4 G		Grey	5	0,64	-	1
376330	TPF-12,7/6,4 M	19,1 to 9,5	Brown	5	0,64	-	1
376340	TPF-19,1/9,5 N		Black	4	0,80	-	1
376350	TPF-19,1/9,5 A		Blue	4	0,80	-	1
376360	TPF-19,1/9,5 G		Grey	4	0,80	-	1
376370	TPF-19/9,5 M	25,4 to 12,7	Brown	4	0,80	-	1
376380	TPF-25,4/12,7 N		Black	3	0,90	-	1

Other colours under request.



376 Heat shrink tubing kit

Kit of heat-shrink tubes identification of terminals in 4 colors.

Code	Ref.	Contraction Ø mm	Length (m)	Thickness (mm)
376500	TPF-38/100	38,0 to 19,0	100	1,00



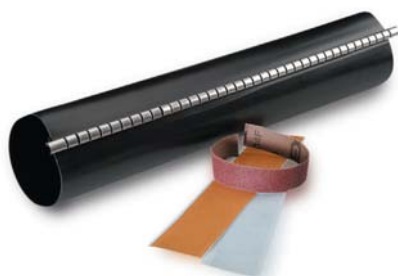
377 TPMA

Medium-walled heat shrink tube with adhesive

TPMA tubes possess an excellent isolation, watertight seal, and abrasion and impact resistance. They are used in low voltage electrical applications and provide an excellent mechanical protection.

Non-flame retardant type. Not self-extinguishing.

Code	Ref.	Contraction Ø mm	Colour	Length (m)	Thickness (mm)	 Bag	 Box
377100	TPMA-12/3	12 to 3	Black	1	2	1	75
377110	TPMA-22/6	22 to 6			2,5	1	75
377120	TPMA-34/7	34 to 7			2,5	1	60
377130	TPMA-40/12	40 to 12			2,5	1	40
377140	TPMA-55/16	55 to 16			2,7	1	25
377150	TPMA-75/22	75 to 22			2,7	1	15
377160	TPMA-95/25	95 to 25			3	1	10
377170	TPMA-115/34	115 to 34			3	1	5
377180	TPMA-140/42	140 to 42			3	1	5



378 MRA

Heat shrink blanket derivation with adhesive

Heat shrink blanket with adhesive and stainless steel chain. MRA sleeve is used for low voltage cable shunt.

Non-flame retardant type. Not self-extinguishing.

Code	Ref.	Contraction Ø mm	Main	Tap	Length (m)	Thickness (mm)	 Bag	 Box
378100	MRA-4312/250	43 to 8	150	50	250	2,30	1	-
			150	25				
			95	95				
378110	MRA-7218/250	75 to 15	240	95	250	2,30	1	-
			240	50				
			150	150				
			150	95				
378120	MRA-7218/300	75 to 15	240	150	300	2,30	1	-
			240	240				
378200	MRA-7218/500-E	75 to 15	240	150	500	2,30	1	-



T10 Earthing rods

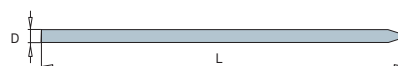
100 or 300 microns

Earthing rod manufactured from calibrated steel with of 100 or 300 microns electrolytic copperplated treatment.

*According to UNE 202006 standard.
Have  AENOR certificated mark.



CE



Earthing rod 100 μ - Ø 14,2 mm

Code	Ref.	Dimensions		 Bag	 Box	 Pallet
		L	D			
T101415	Earthing rod 100 μ - Ø 14,2 Long 1,5 m	1,5 m	14,2 mm	10	100	400
T101420	Earthing rod 100 μ - Ø 14,2 Long 2,0 m	2,0 m	14,2 mm	10	100	400

Earthing rod 100 μ - Ø 18,2 mm

Code	Ref.	Dimensions		 Bag	 Box	 Pallet
		L	D			
T101820	Earthing rod 100 μ - Ø 18,2 Long 2,0 m	2,0 m	18,2 mm	5	100	400

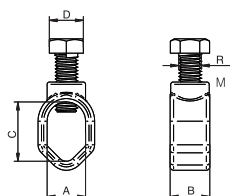
Earthing rod 300 μ - Ø 14,6 mm

Code	Ref.	Dimensions		 Bag	 Box	 Pallet
		L	D			
T301420	Earthing rod 300 μ - Ø 14,6 Long 2,0 m	2,0 m	14,6 mm	10	100	400

Earthing Rods and Accessories

Connection

CONNECTION CATALOGUE 2023



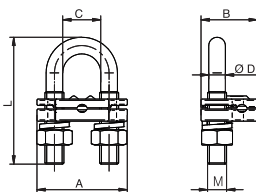
T50 TGT142C

Reinforced earthing rod clamp

Ground-wire staples manufactured in brass with zinc steel screw.

Closed ground-wire staple in C.

Code	Ref.			Dimensions (mm)					 x 100	 Bag	 Package
				A	B	C	D	M			
TGT142C	Closed earthing rod	M-10	15	17	17,5	26	15	M10	7,200	10	50



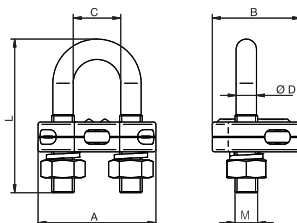
T50 TGT142

Earthing rod clamp

Earthing rod clamp manufactured from brass with galvanized steel ring.

For Ø 14,2 mm and 14,6 mm earthing rods.

Code	Ref.	Cable Section		Dimensions (mm)						 x 100	 Bag	 Box
		Min.	Max.	A	B	C	ØD	L	M			
TGT142	Earthing rod clamp GT 142	16	50	38	23,7	16	7	53	M8	8,300	10	40



T50 TGT142 RF

Reinforced earthing rod clamp

Earthing rod clamp manufactured from brass from galvanized steel ring.

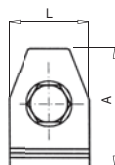
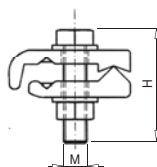
The cable tie walls thickness improves the safety and durability of the cable connection. For Ø 18,6 mm max. earthing rods.

Code	Ref.	Cable Section		Dimensions (mm)						 x 100	 Bag	 Box
		Min.	Max.	A	B	C	ØD	L	M			
TGT142 RF	Reinforced earthing rod clamp	35	150	52	39	21	9	65	M10	19,200	5	15

Earthing Rods and Accessories

Connection

CONNECTION CATALOGUE 2023



170 GTR

Earthing clamp

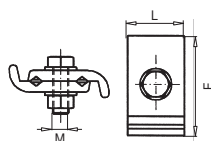
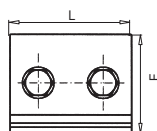
GTR earthing clamp manufactured from brass with stainless steel screws. With high robustness, they are designed for earthing connections.

Code	Ref.	Main		Tap		Dimensions (mm)				x 100	Bag	Box
		Max.	Min.	Max.	Min.	A	L	H	M			
170100	GTR-50/150	16	10	150	50	61	40	67	12	33,000	-	15



TRP-1

TRP-2



170 TRP

Copper parallel earthing clamp

TRP clamp manufactured from brass with stainless steel screws.

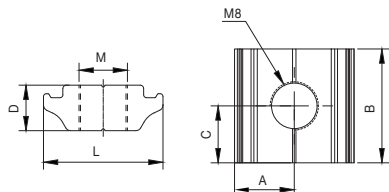
They are available with one or two screws and in two different lengths depending on the required application. With high robustness, they are designed for overhead line cables.

Code	Ref.	Main		Tap		Dimensions (mm)			x 100	Bag	Box
		Max.	Min.	Max.	Min.	E	L	M			
175100	TRP-1-25/150	150	25	150	25	68	30	12	29,000	-	15
175110	TRP-2-25/150	150	25	150	25	68	62	12	58,000	-	6
175120	TRP-2-25/150-R	150	25	150	25	68	90	12	81,000	-	5

Earthing Rods and Accessories

Connection

CONNECTION CATALOGUE 2023



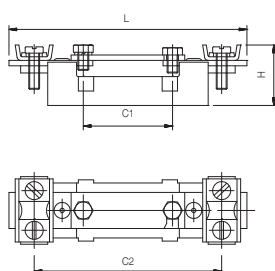
501 SCF/GC

Earthing clip SCF/GC

Earthing clamp for photovoltaic structure, Al+stainless steel.

It is valid for solar structures type G1. For the rest of the structures, the profile must be drilled and M8 must be used.

Code	Ref.	Dimensions (mm)						 x 100	 Bag	 Box
		A	B	c	D	L	M			
501070	SCF/GC	10,5	20	10	8	21	M8	-	10	500



240 PTR

Neutral earthing switch

The neutral PTR earthing switch is manufactured from polyester.

It admits a maximum cable capacity of 70 mm².

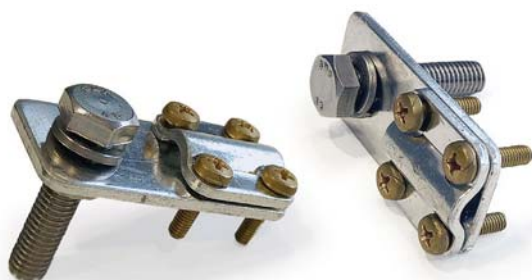
Code	Ref.	Dimensions (mm)				 x 100	 Box	 Pallet
		L	H	C1	C2			
240100	PTR	117,5	23	25	103	-	1	10

sofamel

Earthing Rods and Accessories

Connection

CONNECTION CATALOGUE 2023



171 TMV-8

Multiple terminal for copper rod 8 mm Ø

Equipped with M8x35 stainless steel screw, nut and pressure washer.
Made of tinned copper, tin thickness 15 µ.
Ideal for earthing equipment inside transformer substations.

Code	Ref.	Description	 x 100	 Bag	 Box
171100	TMV-8	Multiple terminal for copper rod 8 mm Ø	-	1	-



171 CDCC-50

Tap-off connectors, for 50 mm² cable crossovers

Made of tinned copper, tin thickness 15 µ.
Ideal for earthing equipment inside transformer substations.

Code	Ref.	Description	 x 100	 Bag	 Box
171110	CDCC-50	Tap-off connectors, for 50 mm² cable crossovers	-	1	-



171 GDC

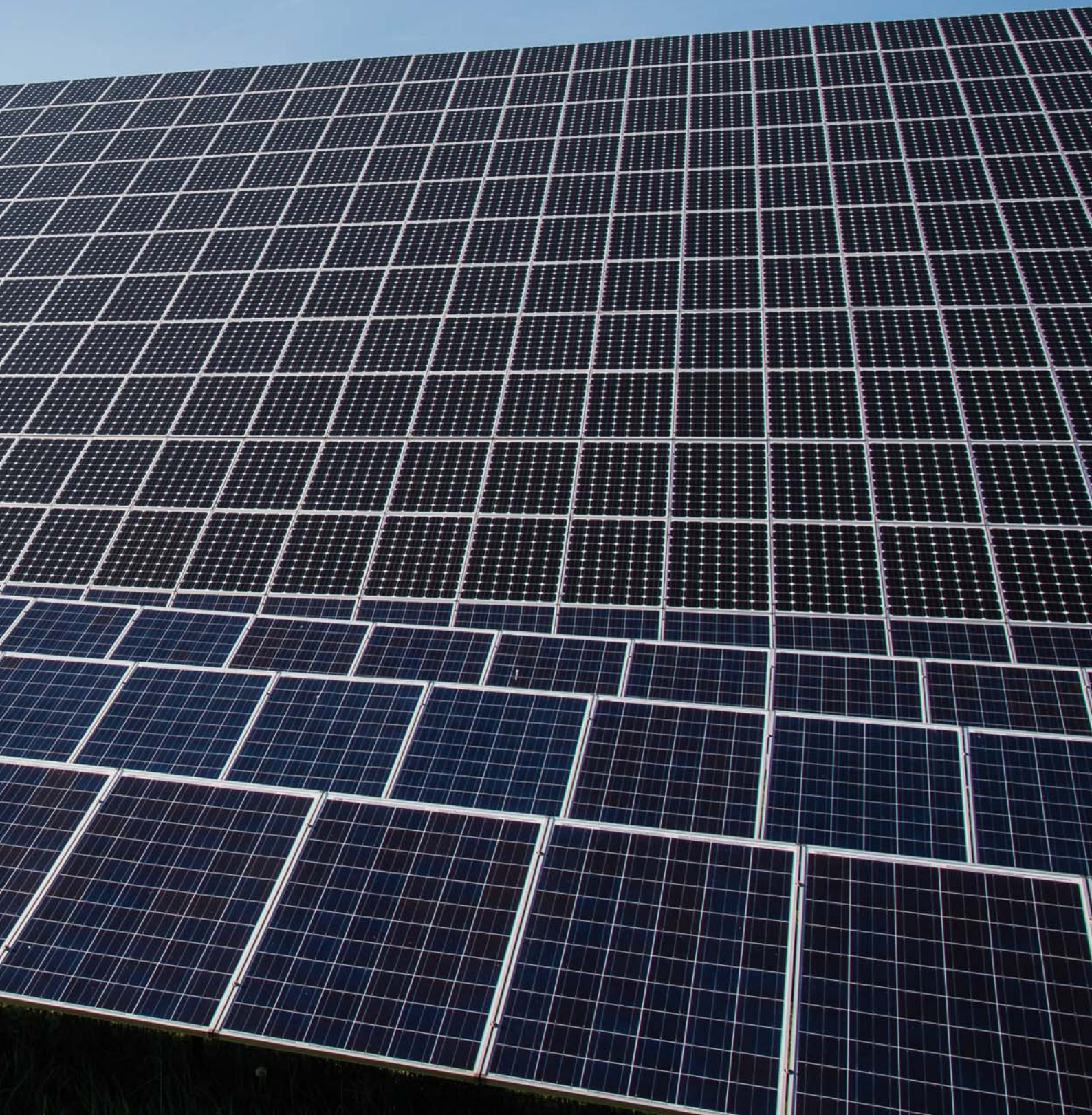
Earthing clamp

Simple fastening to fix the cable to the wall or to the metal structure. Made of tinned copper, tin thickness 15 µ.
Includes plug and screw.

Code	Ref.	Description	 x 100	 Bag	 Box
171120	GDC-25	Earthing clamp Cu. 16-25 mm² 15µ	-	1	-
171121	GDC-50	Earthing clamp Cu. 35-50 mm² 15µ	-	1	-
171122	GDC-95	Earthing clamp Cu. 75-95 mm² 15µ	-	1	-



Connections for Photovoltaic Installations





2

Fuses



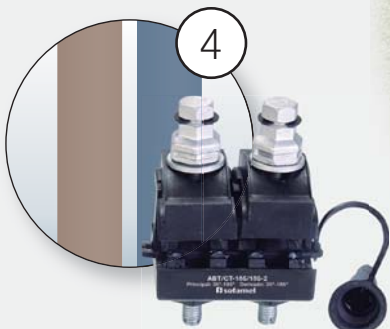
1

Connectors for the wiring



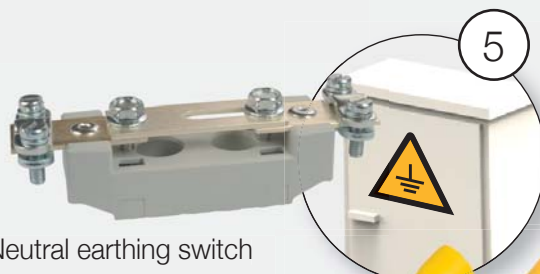
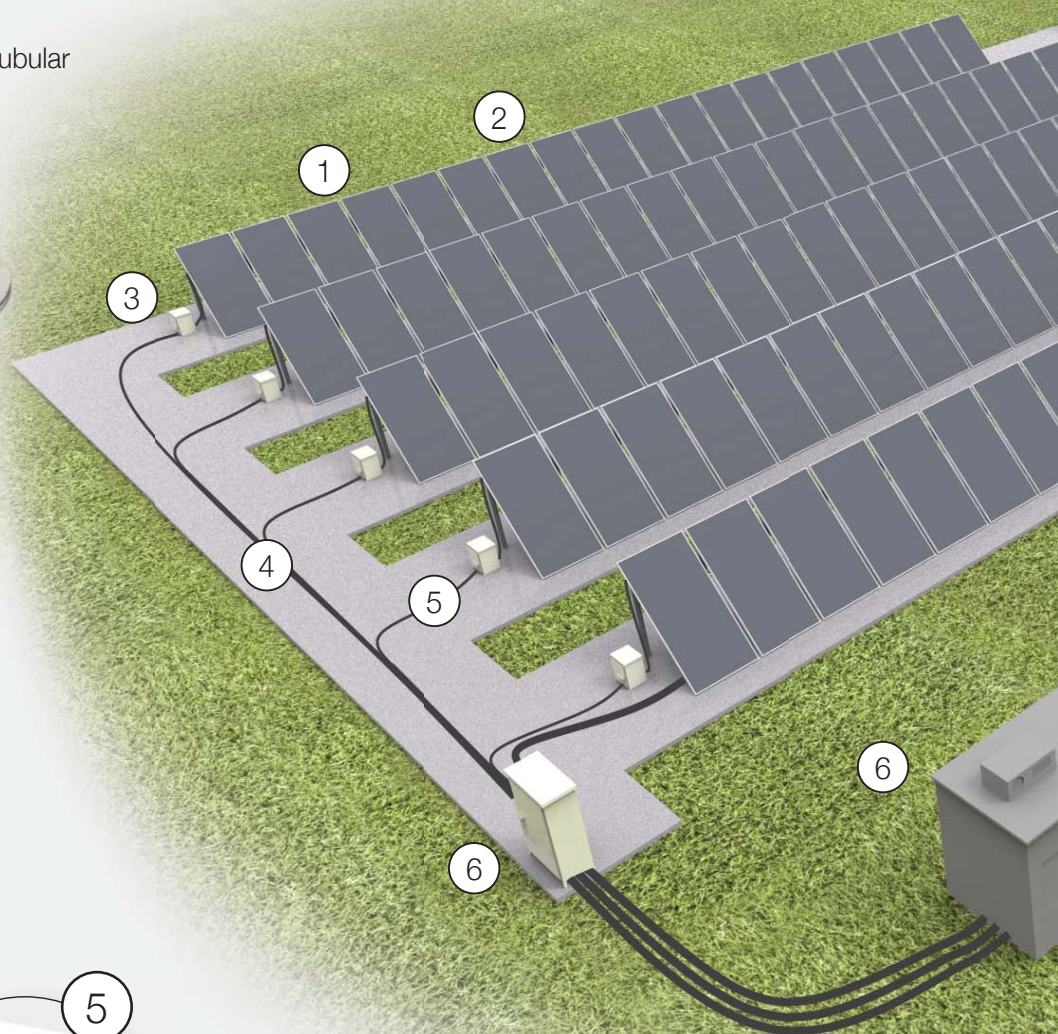
3

Copper tubular terminals



4

Insulating piercing connectors for Cu or Al cable

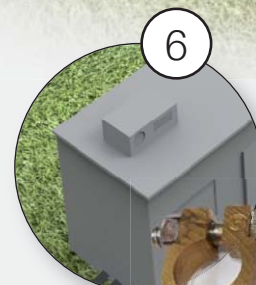


5

Neutral earthing switch



Pre-insulated terminals

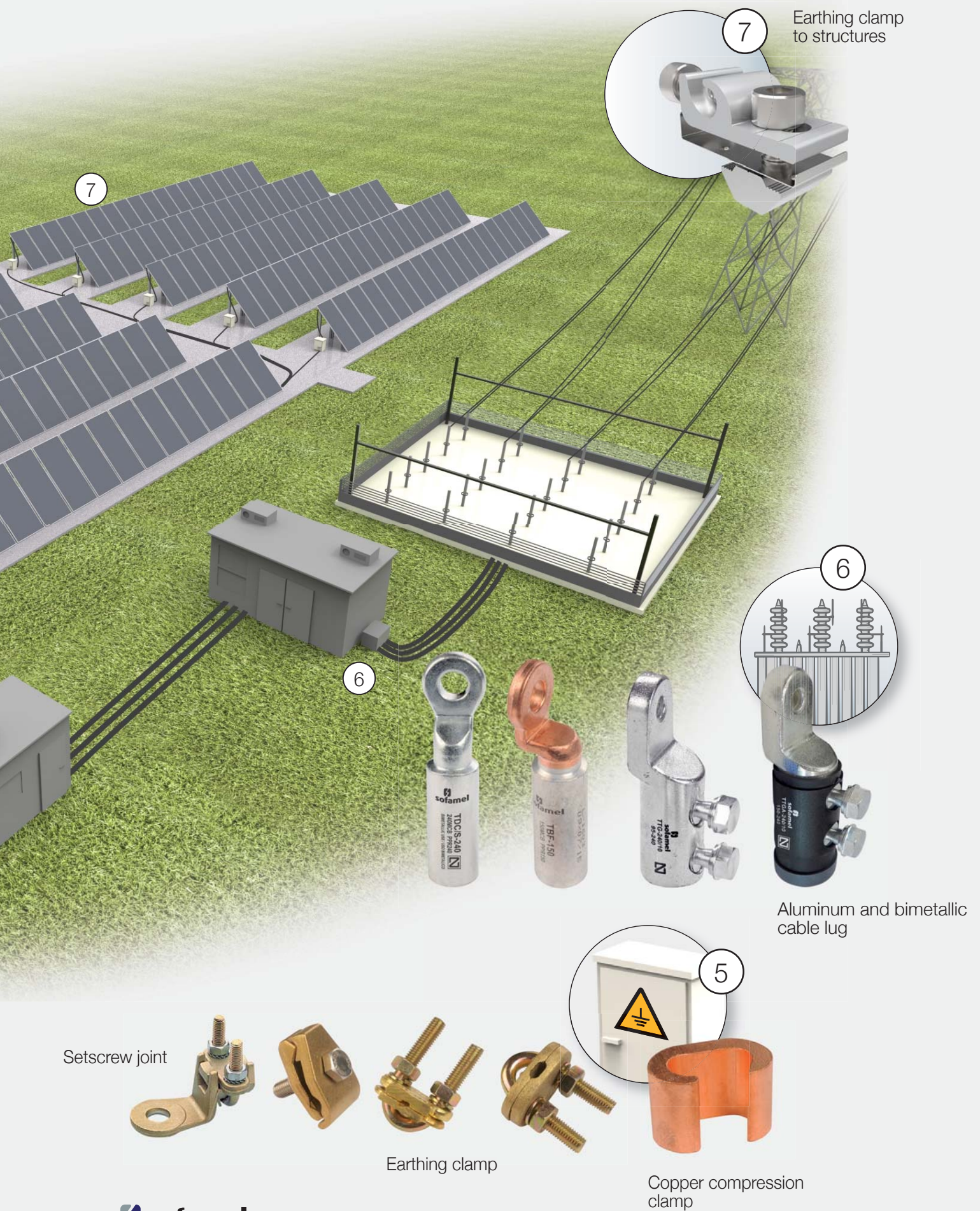


6

Battery terminals



Photovoltaic power plants



Connectors for the wiring



Fuses

Tap-off connectors



Copper tubular terminals



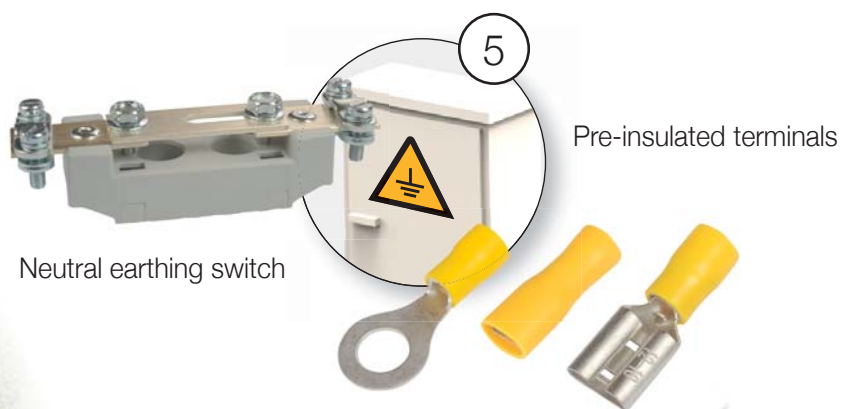


7



7

Earthing clamp to structures



5

Neutral earthing switch

Pre-insulated terminals



6

Copper compression clamp



Setscrew joint



Earthing clamp





11401 SCF/C

MC4 type connectors for 1000 V and 1500 V

MC4 type connectors, male and female: ensure a good connection and water tightness between the wiring terminations and the various elements that make up a photovoltaic installation.

SCF/C-1000V for cross-sections of between 2.5 and 6 mm²

SCF/C-1500V-A for cross-sections of between 2.5 and 6 mm²

SCF/C-1500V-B for 10 mm² cross-sections

A cable crimper is required for correct installation

Code	Ref.	Cable Section (mm ²)	 x 100	 Bag	 Box
501010	SCF/C-1000V	2.5-6	-	-	-
501020	SCF/C-1500V-A	2.5-6	-	-	-
501030	SCF/C-1500V-B	10	-	-	-



11401 SCF/D-TL

Tap-off connectors with flexible hose

MC4 type flexible connectors for connecting strings in parallel.

SCF/D-2TL-1500V for connecting 2 to 1 and 1500 V isolation

Code	Ref.	Unions	 x 100	 Bag	 Box
505030	SCF/D-2TL-1500V	2 to 1	-	-	-



11402 SCF/FUSE

MC4 Type fuse holder for 1000 V and 1500 V

Integrated, watertight 20 A fuse in MC4 connector.

Possibility of changing fuse (from 15/20/30 A).

SCF/FUSE-1000V female-male

SCF/FUSE-1500V female-male

Code	Ref.	Amps (A)	 x 100	 Bag	 Box
501043	SCF/FUSE-1000V 15A	15	-	-	-
501044	SCF/FUSE-1000V 20A	20	-	-	-
501046	SCF/FUSE/L-1500V 15A	15	-	-	-
501047	SCF/FUSE/L-1500V 20A	20	-	-	-

11401 SCF/CT-1000V

MC4 type connectors behind the scenes

The MC4 connectors, male and female, are designed for the photovoltaic solar system between the solar panel and the inverter or the connection box.

They are a simple and safe way to connect two solar cables with sections between 2.5mm², 4mm² and 6mm².

They are dustproof, waterproof, anti-aging, UV resistant.



Code	Ref.	Unions	 x 100	 Bag	 Box
501000	SCF/CT-1000V	2 to 1	-	-	-



11401 SCF/D-T

Tap-off connectors

MC4 type rigid connectors for connecting strings in parallel.

SCF/D-2T-1500V for connecting 2 to 1 and 1500 V isolation

SCF/D-3T-1500V for connecting 3 to 1 and 1500 V isolation

Code	Ref.	Unions	x 100	Bag	Box
502070	SCF/D-2T-1500V	2 to 1	-	-	-
502080	SCF/D-3T-1500V	3 to 1	-	-	-



11404 MC4 SCF-LI

Installation key

Tool specially designed to facilitate the connection/disconnection process of MC4 connectors.

Code	Ref.	x 100	Bag	Box
385000	MC4 SCF-LI	-	-	-



11404 LX-MC4

Llave en cruz instalación porta fusibles MC4

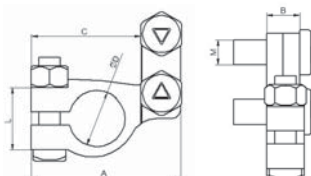
Pair of wrenches for the installation of 1500V MC4 fuse holder connectors, MC4 type.

Specific tool for assembling and disassembling male/female photovoltaic connectors and fuse holders, as well as for their adjustment.

Code	Ref.	x 100	Bag	Box
385010	LX-MC4	-	-	-

11404 SCF/BB

Battery terminals



Set of 2 brass terminals for connecting the cable to the battery: includes one positive and one negative terminal.

Possibility of using cable from other sections, with lugs.



Code	Ref.	Cable Section		Dimensions (mm)							x 100 (The pair)	Bag	Box
		Min.	Max.	A	B	C	ØD -	ØD +	L	M			
501060	SCF/BB	16	50	45	10	33	17	18	19	7,5	156	-	-

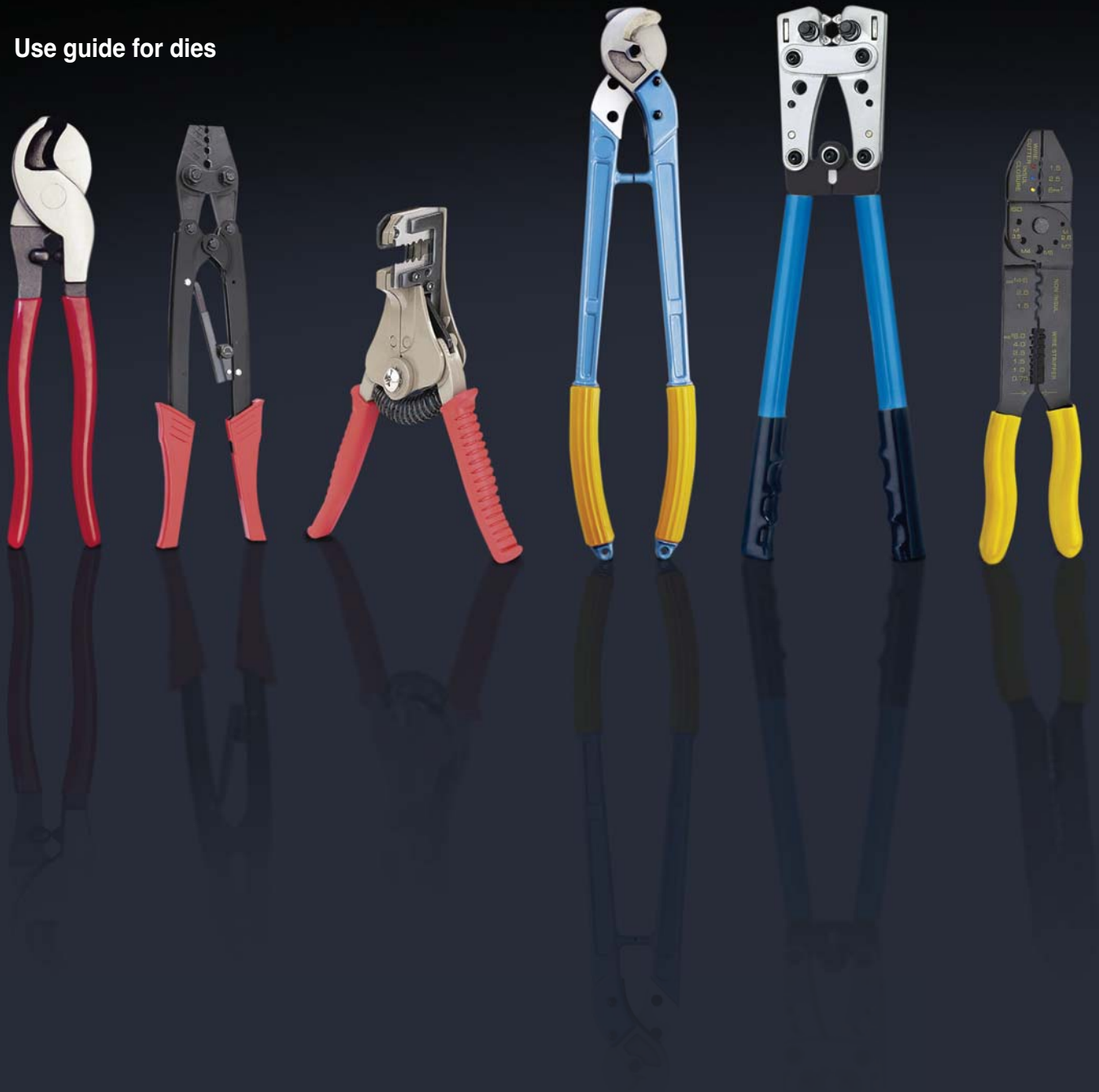
Hand Tools

- Cable cutters
- Crimping tools for non insulated terminals
- Crimping tools for cord end terminals
- Crimping tools for insulated terminals
- Wire and cable strippers
- Cable ties
- Crimping tool for solar connectors

Hydraulic Tools

- Hydraulic hand-tools
- Hydraulic heads
- Hydraulic drives
- Adapters
- Dies

Use guide for dies



Tools

Wide range of tools to facilitate the work





*For copper
and aluminium cables*

Ratchet cutter



380 SF-13

For copper and aluminium cables up to Ø40 mm.
Ratchet cutter.

Code	Ref.	Length	Weight
380105	SF-13	285 mm	1,05 Kg



380 SF-50

For copper and aluminium cables up to Ø45 mm.
Ratchet cutter.

Code	Ref.	Length	Weight
380180	SF-50	330 mm	0,75 Kg



*For copper
and aluminium cables*



380 SF-21

For copper and aluminium cables up to 16 mm².

Code	Ref.	Length	Weight
380120	SF-21	160 mm	0,19 Kg



380 SF-30

For copper and aluminium cables up to 35 mm².

Code	Ref.	Length	Weight
380130	SF-30	210 mm	0,36 Kg



380 SF-31

For copper and aluminium cables up to 50 mm².

Code	Ref.	Length	Weight
380140	SF-31	235 mm	0,50 Kg



380 SF-20

For copper and aluminium cables up to Ø38 mm.

Code	Ref.	Length	Weight
380150	SF-20	600 mm	1,54 Kg



For copper
and aluminium cables

Ratchet cutter

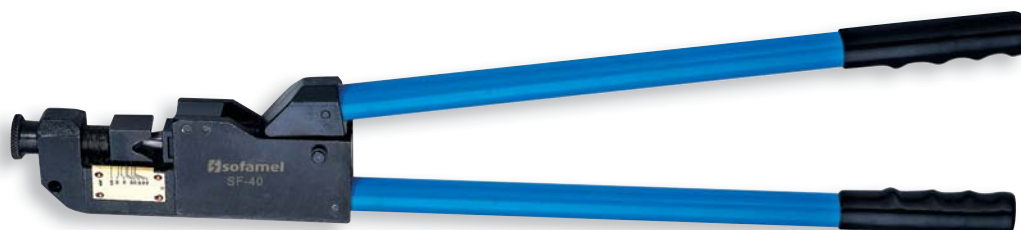


380 SF-24 / 380 SF-25

For copper and aluminium cables. Not able for steel core. It cuts using ratchet mechanism.

Code	Ref.	Length	Weight	Capacity
380122	SF-24	360 mm	0,7 Kg	Ø32
380123	SF-25	415 mm	1,2 Kg	Ø48

*Adjustment by section
screw*



385 SF-40

For copper terminals and thin-wall tubular aluminum from 16 to 120 mm².
Adjustment by section screw.
Aluminium alloy handles.



Code	Ref.	Length	Weight
385150	SF-40	610 mm	3,10 Kg

*Adjustment by revolver
system*



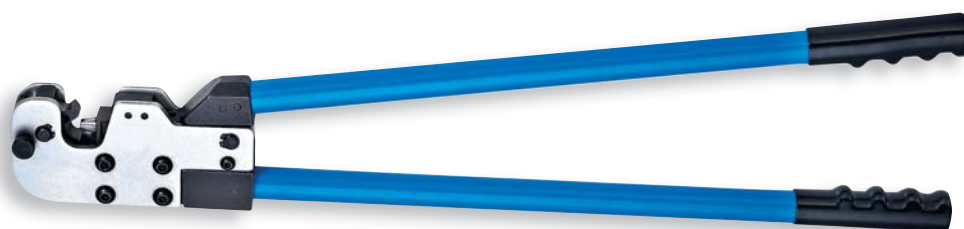
385 SF-36

For copper terminals and thin-wall tubular aluminum from 16 to 95 mm².
Section adjustment by revolver system.
Aluminium alloy handles.



Code	Ref.	Length	Weight
385120	SF-36	630 mm	3,60 Kg

*Adjustment by section
screw*



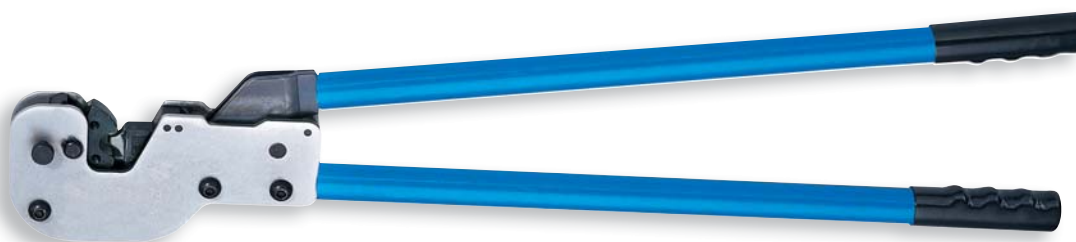
385 SF-51

For tubular copper terminals from 10 to 95 mm².
Section adjustment by screw.



Code	Ref.	Length	Weight
385220	SF-51	635 mm	3,20 Kg

*Adjustment by revolver
system*



385 SF-52

For copper terminals and thin-wall tubular aluminum
from 16 to 150 mm².
Section adjustment by revolver system.



Code	Ref.	Length	Weight
385230	SF-52	765 mm	5,20 Kg

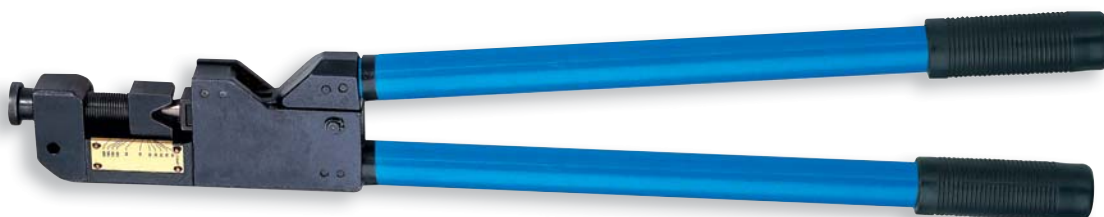
Adjustment by section screw



385 SF-7

For copper terminals and thin-wall tubular aluminum from 10 to 95 mm².
Section adjustment by screw.

Code	Ref.	Length	Weight
385140	SF-7	570 mm	3,10 Kg

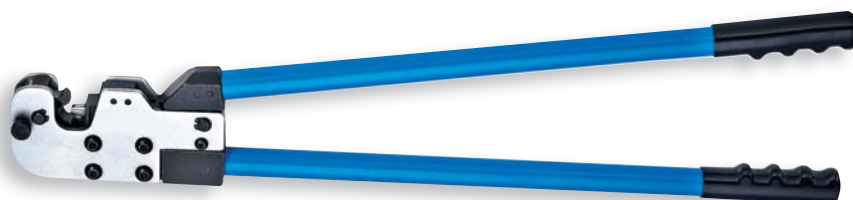


385 SF-12

For copper terminals and thin-wall tubular aluminum from 16 to 240 mm².
Section adjustment by screw.
Extending telescopic handles.

Code	Ref.	Length	Weight
385160	SF-12	980 mm	4,70 Kg

Adjustment by revolver system



385 SF-2N

For copper terminals and thin-wall tubular aluminum from 10 to 35 mm².
Section adjustment by revolver system.

Code	Ref.	Length	Weight
385100	SF-2N	570 mm	2,20 Kg

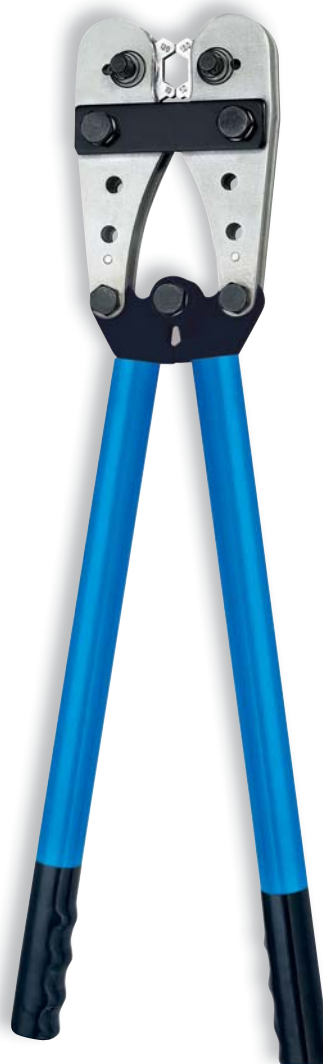
Adjustment by revolver system



385 SF-17

For tubular copper terminals from 6 to 50 mm².
Section adjustment by revolver system.
Hexagonal compression.

Code	Ref.	Length	Weight
385190	SF-17	390 mm	1,30 Kg

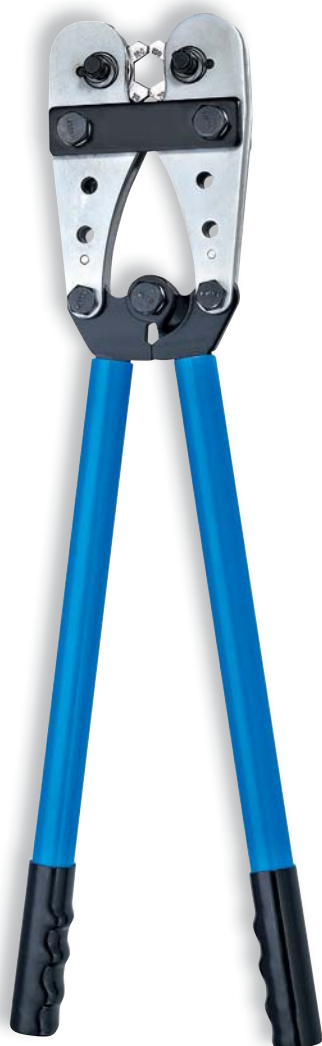


385 SF-37

For tubular copper terminals from 6 to 120 mm².
Section adjustment by revolver system.
Hexagonal compression.

Code	Ref.	Length	Weight
385200	SF-37	620 mm	4,00 Kg

Adjustment by revolver system



385 SF-18

For copper terminals and thin-wall tubular aluminum from 25 to 150 mm².
Section adjustment by revolver system.
Hexagonal compression.

Code	Ref.	Length	Weight
385210	SF-18	620 mm	4,00 Kg



385 SF-53

For tubular copper terminals from 70 to 240 mm².
Section adjustment by revolver system.
Hexagonal compression.
Telescopic handles.

Code	Ref.	Length	Weight
385240	SF-53	980 mm	5,60 Kg

Hand Tools

Tools

Crimping tools for non insulated terminals

TOOLS CATALOGUE 2023

*Punching
compression*



385 SF-8

For cable lugs from 1,5 to 16 mm².
Punching compression.

Code	Ref.	Length	Weight
385170	SF-8	270 mm	0,52 Kg

*Punching
compression*

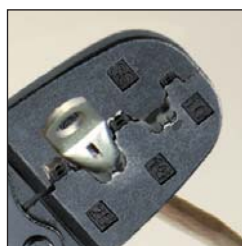


385 SF-41

For cable lugs from 6 to 25 mm².
Punching compression.

Code	Ref.	Length	Weight
385180	SF-41	354 mm	0,78 Kg

*Punching
compression*



385 SF-55

For cable lugs of 10, 16, 25, 35
and 50mm².
With ratchet device.
Punching compression.

Code	Ref.	Length	Weight
390180	SF-55	275 mm	0,56 Kg

*Hexagonal
compression*



385 SF-23

For cable lugs from 6 to 25 mm².
Hexagonal compression.

Code	Ref.	Length	Weight
385185	SF-23	354 mm	0,78 Kg

*Compression system
by squared diaphragm*



*Compression system
by spring*



*Compression system
by spring*



390 SF-42

For cord end terminals from 0,5 to 6 mm².
Compression system by squared diaphragm.

Code	Ref.	Length	Weight
390125	SF-42	175 mm	0,36 Kg

390 SF-9

For cord end terminals from 0,5 to 2,5 mm².
Compression system by spring.

Code	Ref.	Length	Weight
390110	SF-9	145 mm	0,11 Kg

390 SF-54

For cord end terminals from 1,5 to 6 mm².
Compression system by spring.

Code	Ref.	Length	Weight
390150	SF-54	140 mm	0,11 Kg

Compression system by spring



390 SF-6

For cord end terminals from 0,50 to 16 mm².
Compression system by spring.

Code	Ref.	Length	Weight
390100	SF-6	220 mm	0,25 Kg



390 SF-56

For cord end terminals from 10 to 35 mm².
Compression system by spring.

Code	Ref.	Length	Weight
390160	SF-56	220 mm	0,25 Kg

Compression using ratchet mechanism



390 SF-10

For cord end terminals from 0,75 to 10 mm².
Compression using ratchet mechanism.



Code	Ref.	Length	Weight
390120	SF-10	258 mm	0,65 Kg

Compression using ratchet mechanism



390 SF-35

For cord end terminals from 16 to 35 mm².
Compression using ratchet mechanism.



Code	Ref.	Length	Weight
390140	SF-35	250 mm	0,55 Kg

Compression using ratchet mechanism



390 SF-57

For twin cord end terminals from 0,5 to 6,0 mm².
Compression using ratchet mechanism.



Code	Ref.	Length	Weight
390170	SF-57	250 mm	0,51 Kg

Compression using ratchet mechanism



395 SF-16

For insulated terminals from 1,5 to 6 mm².
Compression using ratchet mechanism.



Code	Ref.	Length	Weight
395110	SF-16	250 mm	0,55 Kg



395 SF-5

Multipurpose tool 5 in 1:

Wire cutter.

Crimping insulated terminals from 1,5 to 6,0 mm².

Crimping non insulated terminals from 1,5 to 6,0 mm².

Crimping wire stripper from 0,75 to 6,0 mm².

Iron screw cutter from M2.6 to M5.



Code	Ref.	Length	Weight
395100	SF-5	172 mm	0,21 Kg



395 SF-58

Multipurpose tool that includes 6 sets of dies:

Cord end terminals from 0,5 to 10 mm².

Cord end terminals from 6 to 25 mm².

Cord end terminals from 25 to 35 mm².

Twin cord end terminals from 0,5 to 6,0 mm².

Twin cord end terminals from 6 to 16 mm².

Insulated terminals from 1,5 to 6,0 mm².

2 sets of dies can be stored in handles to make work easier.

Supplied with carrying bag to store the tool and the dies.



Code	Ref.	Length	Weight
395120	SF-58	243 mm	0,75 Kg

Hand Tools

Tools

Wire and cable strippers

TOOLS CATALOGUE 2023



400 SF-22

For stripping wire from 0,5 to 6 mm².
Incorporates a buffer stop.

Code	Ref.	Length	Weight
400100	SF-22	170 mm	0,34 Kg



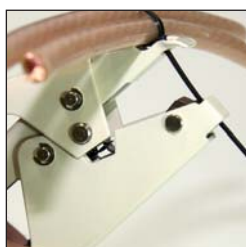
400 SF-38

Rotary stripper for cables from 4 to 25 mm².

Code	Ref.	Length	Weight
400110	SF-38	136 mm	0,15 Kg

Cable ties

Crimping tool for solar connectors



395 SF-39

Cable ties tensor tool from 3,6 to 9 mm width.

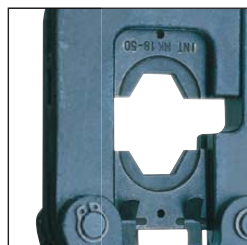
Code	Ref.	Length	Weight
405100	SF-39	193 mm	0,33 Kg



385 SF-MC4

Crimping tool for solar connectors to 2,5-6 mm² cables for photovoltaic installations.

Code	Ref.	Length	Weight
520100	SF-MC4	220 mm	0,49 Kg



i31 HPS-50

- Hydraulic hand-tool.
- 180° rotary head with quick opening.
- Incorporates audible safety valve that limits the maximum working force to 50KN.
- Small size allows working in reduced spaces.
- Include tool holder briefcase.



Code	Ref.	Crimping force	Tool dimensions	Briefcase dimensions	Tool weight	Briefcase weight
411130	HPS-50	50 KN	400x160x54 mm	440x190x80 mm	2,5 Kg	1,0 Kg

Available dies



U5-K Copper and aluminium cable lugs/butt-connectors and pin terminals by hexagonal compression
Up to 240 mm² copper
Up to 150 mm² aluminium



U5-DC Copper compression clamps by elliptical compression
Up to 70 mm²





i31 HPN-130-C

- Hydraulic hand-tool with C type head.
- 180° rotary head with quick opening.
- Incorporates audible safety valve that limit the maximum working force to 130KN.
- Two speeds: one fast to approach and one slow to crimp.
- Include tool holder briefcase.



Code	Ref.	Crimping force	Tool dimensions	Briefcase dimensions	Tool weight	Briefcase weight
411110	HPN-130-C	130 KN	536x220x85 mm	830x280x110 mm	5,4 Kg	2,1 Kg

Available dies



U13-K Copper and aluminium cable lugs and butt-connectors by hexagonal compression
Up to 400 mm² copper
Up to 240 mm² aluminium



U13-S/PZ Copper cable lugs and butt-connectors and pin terminals by punching compression
Up to 300 mm² copper



U13-DC/DA Copper and aluminium Compression clamps by circular compression
Copper: Main up to 185 mm² and tap up to 95 mm²
Aluminium: Main up to 300 mm² and tap up to 70 mm²





i31 HPN-130-H

- Hydraulic hand-tool with H type head.
- 180° rotary head with quick opening.
- Incorporates audible safety valve that limits the maximum working force to 130KN.
- Two speeds: one fast to approach and one slow to crimp.
- Include tool holder briefcase.



Includes AD 13-C adapter to convert "H" head to "C" head.

Code	Ref.	Crimping force	Tool dimensions	Briefcase dimensions	Tool weight	Briefcase weight
411120	HPN-130-H	130 KN	540x160x75 mm	830x280x110 mm	5,6 Kg	2,1 Kg

Available dies



U13-K Copper and aluminium cable lugs and butt-connectors by hexagonal compression
Up to 400 mm² copper
Up to 240 mm² aluminium



U13-S/PZ Copper cable lugs and butt-connectors and pin terminals by punching compression
Up to 300 mm² copper



U13-DC/DA Copper and aluminium Compression clamps by circular compression
Copper: Main up to 185 mm² and tap up to 95 mm²
Aluminium: Main up to 300 mm² and tap up to 70 mm²



MCB/PPR Bimetallic cable lugs and aluminium low voltage joints by deep punching compression
Up to 240 mm²



MC1S/PPR Aluminium multi voltage joints by deep punching compression
Up to 240 mm²



MC2S/PPR Aluminium medium voltage joints by deep punching compression
Up to 240 mm²



Suitable for cutting aluminum, copper, steel cables and steel or aluminum cables up to Ø 25 mm

Mod. HS25

- Light and compact structure.
- Cutting head with snap closure and blade guide, rotates 360°.
- Quick feed with double hydraulic cylinder.
- Automatic pressure safety valve.
- Manual return in any position.

Set Equipment:

- Manual hydraulic cutting tool.
- Plastic case.



Code	Ref.	Tool dimensions	Briefcase dimensions	Tool weight	Set weight
411140	HS25	165x393x54 mm	440x190x80 mm	2,9 Kg	4,0 Kg



GMPS25
Fixed cutting blade
Weight: 200 g



SMPS25
Moveable cutting blade
Weight: 40 g



Suitable for cutting steel, ACSR, aluminum and copper cables up to Ø 45 mm

Mod. HSI45

- Light and compact structure.
- Cutting head with snap closure and blade guide, rotates 270°.
- Quick feed with double hydraulic cylinder.
- Single hand use by innerside handle.
- Automatic pressure safety valve.
- Manual return in any position.

Set Equipment:

- Manual hydraulic cutting tool.
- Plastic case.



Code	Ref.	Tool dimensions	Briefcase dimensions	Tool weight	Set weight
411145	HSI45	184x601x69 mm	700x260x105 mm	5,7 Kg	7,4 Kg



GMPS45
Fixed cutting blade
Weight: 120 g



SMPS45
Moveable cutting blade
Weight: 100 g



Suitable for cutting aluminum and copper cables up to Ø 85 mm

Mod. HSI85

- Light and compact structure.
- Cutting head with snap closure and blade guide, rotates 270°.
- Quick feed with double hydraulic cylinder.
- Automatic pressure safety valve.
- Manual return in any position.

Set Equipment:

- Manual hydraulic cutting tool.
- Plastic case.



Code	Ref.	Tool dimensions	Briefcase dimensions	Tool weight	Set weight
411150	HSI85	203x697x64 mm	700x230x75 mm	7,3 Kg	13,1 Kg



GMPS85
Fixed cutting blade
Weight: 600 g



SMPS85
Moveable cutting blade
Weight: 400 g



Mod. AP60-1

- Portable electrohydraulic tool with rechargeable battery.
- 360° rotary head with quick opening.
- Incorporates safety valve that limits the maximum pressure by means of an audible discharge.
- Includes tool holder briefcase.



Code	Ref.	Crimping force	Battery type	Battery changer	Set dimensions	Set weight
411100	AP60-1	60 KN	18V-3,0 Ah LI-ION-Battery-RA50	LG8	580x470x115 mm	7,7 Kg

Available dies



**U5-K Copper and aluminium cable lugs/
butt-connectors and pin terminals**
by hexagonal compression
Up to 240 mm² copper
Up to 150 mm² aluminium



**U5-DC Copper compression clamps by elliptical
compression**
Up to 70 mm²



Mod. AP130-C

- Portable electrohydraulic tool with rechargeable battery and C type head.
- 360° rotary head with quick opening.
- Two speeds: one fast to approach and one slow to crimp.
- Incorporates safety valve that limits the maximum pressure by means of an audible discharge.
- Quick return by discharge trigger.
- Includes tool holder briefcase.



Code	Ref.	Crimping force	Battery type	Battery changer	Set dimensions	Set weight
411106	AP130-C	130 KN	18V-3,0 Ah LI-ION-Battery-RA50	LG8	580x470x115 mm	10,6 Kg

Available dies



U13-K Copper and aluminium cable lugs and butt-connectors by hexagonal compression
Up to 400 mm² copper
Up to 240 mm² aluminium



U13-S/PZ Copper cable lugs and butt-connectors and pin terminals by punching compression
Up to 300 mm² copper



U13-DC/DA Copper and aluminium Compression clamps by circular compression
Copper: Main up to 185 mm² and tap up to 95 mm²
Aluminium: Main up to 300 mm² and tap up to 70 mm²



Mod. AP130-H

- Portable electrohydraulic tool with rechargeable battery and C type head.
- 360° rotary head with quick opening.
- Two speeds: one fast to approach and one slow to crimp.
- Incorporates safety valve that limits the maximum pressure by means of an audible discharge. Quick return by discharge trigger.
- Includes tool holder briefcase.



Includes AD 13-C adapter to convert "H" head to "C" head.

Code	Ref.	Crimping force	Battery type	Battery changer	Set dimensions	Set weight
411102	AP130-H	130 KN	18V-3,0 Ah LI-ION-Battery-RA50	LG8	580x470x115 mm	10,0 Kg

Available dies



U13-K Copper and aluminium cable lugs and butt-connectors by hexagonal compression
Up to 400 mm² copper
Up to 240 mm² aluminium



U13-S/PZ Copper cable lugs and butt-connectors and pin terminals by punching compression
Up to 300 mm² copper



U13-DC/DA Copper and aluminium Compression clamps by circular compression
Copper: Main up to 185 mm² and tap up to 95 mm²
Aluminium: Main up to 300 mm² and tap up to 70 mm²



MCB/PPR Bimetallic cable lugs and aluminium low voltage joints by deep punching compression
Up to 240 mm²



MC1S/PPR Aluminium multi voltage joints by deep punching compression
Up to 240 mm²



MC2S/PPR Aluminium medium voltage joints by deep punching compression
Up to 240 mm²



Mod. STILO-S

- Battery powered hydraulic cable cutter.
- Light and compact structure.
- Cutting head with 360° endless rotation allows easy operation also in confined spaces.
- Ergonomic 2-Component handle for fatigue-proof one handed working.
- Extreme fast working through a 3 x axial piston pump.
- Automatic return at the end of the cutting cycle.
- Emergency manual return.
- Ergonomic design provides easy operation for both left-and right-handed users.
- Mini USB-port: - Output of Cutting curves and fault messages
- Maintenance controle.
- Includes tool holder briefcase.



Code	Ref.	Cutting diameter	Suggested application	Cutting force	Operating Pressure
411155	STILO-S	max. Ø 40 mm	Copper and Aluminium	30 kN	550 bar (55 Mpa)

Tool dimensions	Tool weight	Set dimensions	Battery type	Battery changer	Cable	Software
440x124x81 mm	2,8 Kg	450x500x140 mm	18V/1,5 Ah LI-ION (RA12)	LG8	USB	CD

SET-SMI-S

Spare blades (2x blade + acc.)

Weight: 500 g

Cutting range table

Sector of use		Tensile strength N/mm²	Ø 30 mm	Ø 35 mm	Ø 40 mm	
Copper	Cable	< 410	•	•	•	
Aluminium	Cable	< 210	•	•	•	



Mod. AS45

- Light and compact structure.
- Cutting head with snap closure; rotates 360°.
- High speed feed with double hydraulic cylinder.
- Pressure release button with single handed operation (on both sides, for left and right handed operators).
- Fastening ring for shoulder strap.
- Ergonomic grip for weight balance and easy and safe operation.
- Plastic housing, grip and pressure release button, insulating and shock resistant.
- Powerful led for working space illumination.



GMPS45
Fixed cutting blade
Weight: 120 g



SMPS45
Moveable cutting blade
Weight: 100 g



Code	Ref.	Cutting diameter	Tool dimensions	Tool weight
411160	AS45	max. Ø 45 mm	331x434x75 mm	5,4 Kg

Set dimensions	Set weight	Battery type	Battery changer	Shoulder strap
580x470x115 mm	8,8 Kg	18V/3,0 Ah LI-ION (RA50)	LG8	TG2

Cutting range table

Sector of use		Tensile strength N/mm ²	<Ø 28 mm	Ø 29 mm	Ø 30 mm	Ø 31 mm	Ø 32 mm	Ø 33 mm	Ø 34 mm	Ø 35 mm	Ø 36 mm	Ø 37 mm	Ø 38 mm	Ø 39 mm	Ø 40 mm	Ø 41 mm	Ø 42 mm	Ø 43 mm	Ø 44 mm	Ø 45 mm
Copper	Rope and cable	< 410	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aluminium	Rope and cable	< 200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Bar	< 340	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Alu/Steel	Bar	< 1800	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Sector of use		Tensile strength N/mm ²	Ø 9 mm	Ø 11 mm	Ø 12 mm	Ø 13 mm	Ø 14 mm	Ø 15 mm	Ø 16 mm	Ø 17 mm	Ø 18 mm	Ø 19 mm	Ø 20 mm	Ø 21 mm	Ø 22 mm	Ø 23 mm	Ø 24 mm	Ø 25 mm	Ø 26 mm	Ø 27 mm
Copper	Bar	< 250	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Bar	< 300	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aluminium	Bar	< 160	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Aldrey	Cable	< 340	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Steel	Rope (<200 wires)	< 180	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Bar	< 420	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Bar	< 600	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Rope	< 2200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•



Mod. AS85

- Light and compact structure.
- Cutting head with snap closure; rotates 360°.
- High speed feed with double hydraulic cylinder.
- Pressure release button with single handed operation (on both sides, for left and right handed operators).
- Fastening ring for shoulder strap.
- Ergonomic grip for weight balance and easy and safe operation.
- Plastic housing, grip and pressure release button, insulating and shock resistant.
- Powerful led for working space illumination.



GM85
Fixed cutting blade
Weight: 150 g



SM85
Moveable cutting blade
Weight: 250 g

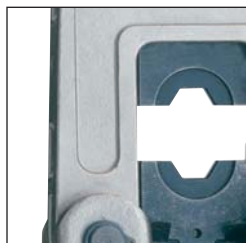


Code	Ref.	Cutting diameter	Tool dimensions	Tool weight
411165	AS85	max. Ø 85 mm	331x522x75 mm	7,2 Kg

Set dimensions	Set weight	Battery type	Battery changer	Shoulder strap
580x470x115 mm	10,7 Kg	18V/3,0 Ah LI-ION (RA50)	LG8	TG2

Cutting range table

Sector of use		Tensile strength N/mm ²	<Ø 30mm	Ø 35 mm	Ø 40 mm	Ø 45 mm	Ø 50 mm	Ø 55 mm	Ø 60 mm	Ø 65 mm	Ø 70 mm	Ø 75 mm	Ø 80 mm	Ø 85 mm
Copper	Cable	< 410	•	•	•	•	•	•	•	•	•	•	•	•
Aluminium	Cable	< 210	•	•	•	•	•	•	•	•	•	•	•	•



*Quick connector
to a hydraulic drive*

i33 PP-60-1

- Hydraulic head with quick connection to a hydraulic drive with a maximum pressure of 700 bar.
- Interchangeable dies.
- Tool holder briefcase included.



Code	Ref.	Crimping force	Work pressure	Head dimensions	Briefcase dimensions	Head weight	Briefcase weight
421190	PP-60-1	60 KN	700 bar	74x198x54 mm	320x260x75 mm	1,6 Kg	0,5 Kg

Available dies



**U5-K Copper and aluminium cable lugs/
butt-connectors and pin terminals**
by hexagonal compression
Up to 240 mm² copper
Up to 150 mm² aluminium



**U5-DC Copper compression clamps by elliptical
compression**
Up to 70 mm²



Quick connector to a hydraulic drive

i33 PP-130-C

- Hydraulic C type head with quick connection to a hydraulic drive with a maximum pressure of 700 bar.
- Interchangeable dies.
- Tool holder briefcase included.



Code	Ref.	Crimping force	Work pressure	Head dimensions	Briefcase dimensions	Head weight	Briefcase weight
421100	PP-130-C	130 KN	700 bar	128x254x78 mm	400x350x130 mm	4,1 Kg	1,5 Kg

Available dies



U13-K Copper and aluminium cable lugs and butt-connectors by hexagonal compression
Up to 400 mm² copper
Up to 240 mm² aluminium



U13-DC/DA Copper and aluminium Compression clamps by circular compression
Copper: Main up to 185 mm² and tap up to 95 mm²
Aluminium: Main up to 300 mm² and tap up to 70 mm²



U13-S/PZ Copper cable lugs and butt-connectors and pin terminals by punching compression
Up to 300 mm² copper



*Quick connector
to a hydraulic drive*

i33 PP-130-H

- Hydraulic H type head with quick connection to a hydraulic drive with a maximum pressure of 700 bar.
- Included adapter for hexagonal compression.
- Interchangeable dies.
- Tool holder briefcase included.



Includes AD 13-C adapter to convert "H" head to "C" head.

Code	Ref.	Crimping force	Work pressure	Head dimensions	Briefcase dimensions	Head weight	Briefcase weight
421110	PP-130-H	130 KN	700 bar	78x263x70 mm	410x360x165 mm	3,4 Kg	1,6 Kg

Available dies



U13-K Copper and aluminium cable lugs and butt-connectors by hexagonal compression

Up to 400 mm² copper
Up to 240 mm² aluminium



U13-S/PZ Copper cable lugs and butt-connectors and pin terminals by punching compression

Up to 300 mm² copper



U13-DC/DA Copper and aluminium Compression clamps by circular compression

Copper: Main up to 185 mm² and tap up to 95 mm²
Aluminium: Main up to 300 mm² and tap up to 70 mm²



MCB/PPR Bimetallic cable lugs and aluminium low voltage joints by deep punching compression

Up to 240 mm²



MC1S/PPR Aluminium multi voltage joints by deep punching compression

Up to 240 mm²



MC2S/PPR Aluminium medium voltage joints by deep punching compression

Up to 240 mm²



*Quick connector
to a hydraulic drive*

i33 PP-230

- Hydraulic head with quick connection to a hydraulic drive with a maximum pressure of 700 bar.
- Interchangeable dies.
- Tool holder briefcase included.
- To use PP-230 Head with the same dies as the 130 KN tools, it is required the adapter AD230-130.



Code	Ref.	Crimping force	Work pressure	Head dimensions	Briefcase dimensions	Head weight	Briefcase weight
421120	PP-230	230 KN	700 bar	121x286x88 mm	410x360x135 mm	5,5 Kg	1,7 Kg

Available dies



**U13-K Copper and aluminium cable
lugs and butt-connectors by hexagonal compression**
Up to 630 mm² copper
Up to 400 mm² aluminium



**U13-S/PZ Copper cable
lugs and butt-connectors and pin terminals
by punching compression**
Up to 300 mm² copper



**U13-DC/DA Copper and aluminium
Compression clamps by circular compression**
Copper: Main up to 185 mm² and tap up to 95 mm²
Aluminium: Main up to 300 mm² and tap up to 70 mm²



i32 FPI-70S-EC

- 3 meters high pressure flexible tube with automatic lockout.
- Double-advance automatic device.
- Designed to operate with 700 bar-pressure hydraulic heads.



Code	Ref.	Weight
416101	FPI-70S-EC	10,0 Kg



132 FPI-70S

- Same configuration as FPI-70S-EC.
- It incorporates a pressure gauge and hose with ball-and-rocket joint.
- More robust and aesthetical design.



Code	Ref.	Weight
416100	FPI-70S	10,0 Kg



i43 AD13-150, AD13-240 and AD230-630

Adapter for deep punchin die.

Code	Ref.	Section mm ²
471110	AD13-150	16-150
471120	AD13-240	185-240
471135	AD230-630	300-500



i43 AD13-C

Adapter which converts H type head into C-head.

Included the hydraulic tools HPS-130-H3 and API-130-H as well as in the head PP-130-H.

Code	Ref.
471100	AD13-C



i43 AD230-130

Adapter for deep punching die up to 240 mm² section.

Code	Ref.
471130	AD230-130

Dies

DIES FOR HEXAGONAL

Code	Ref.
437101	U5-K07
437110	U5-K08
437130	U5-K10
437150	U5-K11
437160	U5-K13
437170	U5-K14
437180	U5-K17
437190	U5-K18
437200	U5-K20
437003	U5-K21
437210	U5-K22
437220	U5-K25
441101	U13-K07
441110	U13-K08
441120	U13-K10
441130	U13-K11
441150	U13-K13
441170	U13-K14
441180	U13-K17
441190	U13-K18
441200	U13-K20
441205	U13-K21
441210	U13-K22
441220	U13-K25
441230	U13-K28
441250	U13-K32

Code	Ref.
441260	U13-K34
447100	MK6-C
447105	MK8-C
447110	MK10-C
447115	MK12-C
447120	MK14-C
447125	MK16-C
447130	MK18-C
447135	MK20-C
447140	MK22-C
447145	MK25-C
447150	MK28-C
447155	MK32-C
447159	MK34-230
447160	MK38-230
447162	MK23-40
447165	MK42-230
447170	MK44-230
447165	MK42-230
447170	MK44-230
447171	MK46B-230

DIES FOR PUNCHING

Code	Ref.
446100	U13-S10
446110	U13-S16

Code	Ref.
446120	U13-S25
446130	U13-S35
446140	U13-S50
446150	U13-S70
446160	U13-S95
446170	U13-S120
446180	U13-S150
446190	U13-S185
446200	U13-S240
446210	U13-S300
446230	U13-PZ120
446231	U13-PZ240
446240	U13-PZ300

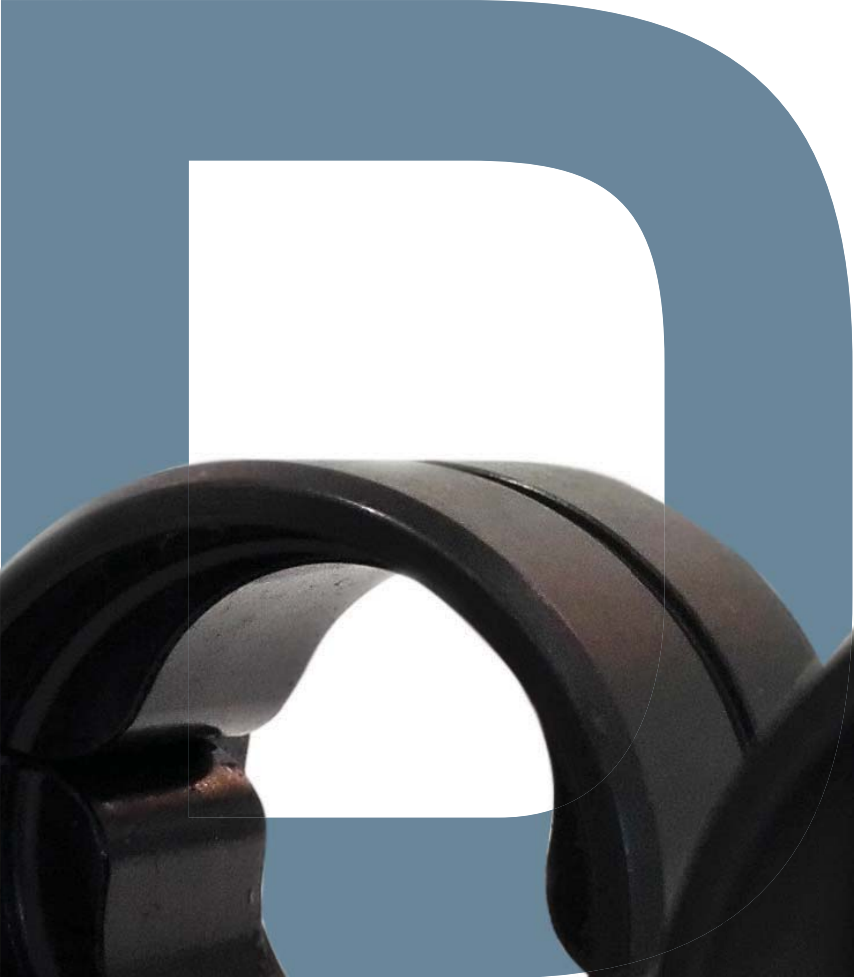
DIES FOR DEEP PUNCHING

Code	Ref.
456100	95MCB
456110	150MCB
456120	240MCB
446280	400MC3S
456221	630MC3S
456130	95 MC1S
456140	150MC1S
456141	240MC1S
456150	PPR95
456160	PPR150
456170	PPR240

Código	Ref.
456180	PPR400
456190	PPR630
456200	95MC2S
456210	150MC2S
456220	240MC2S0

DIES FOR COMPRESSION CLAMP

Code	Ref.
462080	U5-DC6
462090	U5-DC10
462100	U5-DC25
462110	U5-DC35
462120	U5-DC70
463090	U13-DC10
463100	U13-DC25
463110	U13-DC35
463120	U13-DC70
463140	U13-DC95
463170	U13-DC185
463180	U13-DA70
463190	U13-DA120
463200	U13-DA185
463210	U13-DC300AL



USE GUIDE FOR **DIES**



MANUFACTURER OF SAFETY AND CONNECTION MATERIAL

		TOOLS AND DIES												
		 HPS-50 AP60-1 PP60-1			 HPS-130-C HPS-130-H AP130-C AP130-H PP-130-H					 PP-230-H PP-230-630				
		Section of cable	Die	Num. press.	Cradle	Punch	Num. press.	Die	Num. press.	Adapter	Die	Num. press.		
 T	COPPER	10	U5-K07	1	U13-S10	U13-PZ120	1	U13-K07	1	AD230-130	U13-K07	1		
		16	U5-K08		U13-S16			U13-K08			U13-K08			
		25	U5-K10		U13-S25			U13-K10			U13-K10			
		35	U5-K11		U13-S35			U13-K11			U13-K11			
		50	U5-K13		U13-S50			U13-K13			U13-K13			
		70	U5-K14	U13-S70	U13-K14	U13-K14	U13-K14	2	U13-K17	U13-K17	U13-K17	2		
		95	U5-K17	U13-S95	U13-K18	U13-K18	U13-K18							
		120	U5-K18	U13-S120	U13-K20	U13-K20	U13-K20							
		150	U5-K20	U13-S150	U13-K22	U13-K22	U13-K22							
		185	U5-K22	U13-S185	U13-K25	U13-K25	U13-K25							
		240	U5-K25	U13-S240	U13-K28	U13-K28	U13-K28	3	U13-K32		U13-K32	3		
		300		U13-S300	U13-PZ300									
		400												
		500												
		630												
 TL	COPPER	10	U5-K07	1	U13-S10	U13-PZ120	1	U13-K07	1	AD230-130	U13-K07	1		
		16	U5-K08	2	U13-S16			U13-K08			U13-K08			
		25	U5-K10	U13-S25	U13-K10			U13-K10						
		35	U5-K11	U13-S35	U13-K11			U13-K11						
		50	U5-K13	U13-S50	U13-K13			U13-K13						
		70	U5-K14	3	U13-S70	U13-K14	U13-K14	U13-K14	2	U13-K17	U13-K17	U13-K17		2
		95	U5-K17		U13-S95	U13-K18	U13-K18	U13-K18						
		120	U5-K18		U13-S120	U13-K20	U13-K20	U13-K20						
		150	U5-K20	U13-S150	U13-K22	U13-K22	U13-K22	3	U13-K25	U13-K25	U13-K25	3		
		185	U5-K22	U13-S185	U13-K28	U13-K28	U13-K28							
		240	U5-K25	U13-S240	U13-K32	U13-K32	U13-K32							
		300		U13-S300	U13-PZ300									
		400												
		500												
		630												
 T45°	COPPER	10	U5-K07	1	U13-S10	U13-PZ120	1	U13-K07	1	AD230-130	U13-K07	1		
		16	U5-K08		U13-S16			U13-K08			U13-K08			
		25	U5-K10		U13-S25			U13-K10			U13-K10			
		35	U5-K11		U13-S35			U13-K11			U13-K11			
		50	U5-K13		U13-S50			U13-K13			U13-K13			
		70	U5-K14	2	U13-S70	U13-K14	U13-K14	U13-K14	1	U13-K17	U13-K17	U13-K17		1
		95	U5-K17		U13-S95	U13-K18	U13-K18	U13-K18						
		120	U5-K18		U13-S120	U13-K20	U13-K20	U13-K20						
		150	U5-K20	U13-S150	U13-K22	U13-K22	U13-K22	2	U13-K25	U13-K25	U13-K25	2		
		185	U5-K22	U13-S185	U13-K07	U13-K07	U13-K07							
		240	U5-K25	U13-S240	U13-K08	U13-K08	U13-K08							
		10	U5-K07	3	U13-S10	U13-K10	U13-K10	U13-K10	1	U13-K11	U13-K11	U13-K11		1
		16	U5-K08		U13-S16	U13-K11	U13-K11	U13-K11						
		25	U5-K10		U13-S25	U13-K12	U13-K12	U13-K12						
		35	U5-K11		U13-S35	U13-K13	U13-K13	U13-K13						
50	U5-K13	U13-S50	U13-K14		U13-K14	U13-K14								
70	U5-K14	2	U13-S70	U13-K15	U13-K15	U13-K15	1	U13-K16	U13-K16	U13-K16	1			
95	U5-K17		U13-S95	U13-K16	U13-K16	U13-K16								
120	U5-K18		U13-S120	U13-K17	U13-K17	U13-K17								
150	U5-K20	U13-S150	U13-K18	U13-K18	U13-K18	2	U13-K19	U13-K19	U13-K19	2				
185	U5-K22	U13-S185	U13-K19	U13-K19	U13-K19									
240	U5-K25	U13-S240	U13-K20	U13-K20	U13-K20									
 T90°	COPPER	16	U5-K08	1	U13-S16	U13-PZ120	1	U13-K08	1	AD230-130	U13-K08	1		
		25	U5-K10		U13-S25			U13-K09			U13-K09			
		35	U5-K11		U13-S35			U13-K10			U13-K10			
		50	U5-K13	U13-S50	U13-K11	U13-K11	U13-K11	1	U13-K12	U13-K12	U13-K12	1		
		70	U5-K14	U13-S70	U13-K13	U13-K13	U13-K13							
		95	U5-K17	U13-S95	U13-K14	U13-K14	U13-K14							
		120	U5-K18	U13-S120	U13-K15	U13-K15	U13-K15	2	U13-K16	U13-K16	U13-K16	2		
		150	U5-K20	U13-S150	U13-K17	U13-K17	U13-K17							
		185	U5-K22	U13-S185	U13-K18	U13-K18	U13-K18							
240	U5-K25	U13-S240	U13-K19	U13-K19	U13-K19									

		TOOLS AND DIES											
		 HPS-50 AP60-1 PP60-1			 HPS-130-C HPS-130-H AP130-C AP130-H PP-130-H					 PP-230-H PP-230-630			
		Section of cable	Die	 Num. press.	Cradle	Punch	 Num. press.	Die	 Num. press.	Adapter	Die	 Num. press.	
 TT	COPPER	10	U5-K07	1	U13-S10	U13-PZ120	1	U13-K07	1	AD230-130	U13-K07	1	
		16	U5-K08		U13-S16			U13-K08					
		25	U5-K10		U13-S25			U13-K10					
		35	U5-K11		U13-S35			U13-K11					
		50	U5-K13		U13-S50			U13-K13					
		70	U5-K14	2	U13-S70	U13-K14	U13-K14						
		95	U5-K17	3	U13-S95	U13-K17	U13-K17						
		120	U5-K18		U13-S120	U13-K18	U13-K18						
		150	U5-K21		U13-S150	U13-K21	U13-K21						
		185	U5-K22		U13-S185	U13-K22	U13-K22						
240	U5-K25	U13-S240	U13-K25		U13-K25								
300			U13-S300	U13-PZ300	U13-K28	U13-K28	4	U13-K28	4				
400					U13-K32		4	MK38-230	2				
 T-4H	COPPER	185	U5-K22	4	U13-S185	U13-PZ240	1	U13-K22	2	AD230-130	U13-K22	2	
		240	U5-K25		U13-S240			U13-K25			U13-K25		
		300			U13-S300	U13-PZ300		U13-K28	U13-K28		4	U13-K28	4
		400						U13-K32			4		
		500										MK32-230	2
		630										MK38-230	2
		800										MK44-230	3
 TDT	COPPER	50	U5-K13	3	U13-S50	U13-PZ120	1	U13-K13	2	AD230-130	U13-K13	2	
		70	U5-K14		U13-S70			U13-K14			U13-K14		
		95	U5-K17		U13-S95			U13-K17			U13-K17		
		120	U5-K18		U13-S120			U13-K18			U13-K18		
		150	U5-K20	4	U13-S150	U13-K20		U13-K20					
		185	U5-K22		U13-S185	U13-K22		U13-K22					
		240	U5-K25		U13-S240	U13-K25		U13-K25					
		300			U13-S300	U13-PZ300		U13-K28	U13-K28		4	U13-K28	4
		400				U13-K32			4		MK34-230	2	
500							MK23-40						
 TPE	COPPER	50	U5-K13	1	U13-S50	U13-PZ120	1	U13-K13	1	AD230-130	U13-K13	1	
		70	U5-K14		2			U13-S70			U13-K14		U13-K14
		95	U5-K17		U13-S95			U13-K17			U13-K17		
		120	U5-K18	3	U13-S120			U13-K18	U13-K18				
		150	U5-K20		U13-S150			U13-K20	U13-K20				
		185	U5-K22		U13-S185			U13-K22	U13-K22				
		240	U5-K25		4			U13-S240	U13-K25		U13-K25		
 CP	COPPER	10	U5-K07	1	U13-S10	U13-PZ120	1	U13-K07	1	AD230-130	U13-K07	1	
		16	U5-K08		U13-S16			U13-K08			U13-K08		
		25	U5-K10		U13-S25			U13-K10			U13-K10		
		35	U5-K11		U13-S35			U13-K11			U13-K11		
		50	U5-K13		U13-S50			U13-K13			U13-K13		
 CPP	COPPER	10	U5-P10	1				U13-P10	1	AD230-130	U13-P10	1	
		16	U5-P16		U13-P16			U13-P16					
		25	U5-P25		U13-P25			U13-P25					
		35	U5-P35		U13-P35			U13-P35					
		50	U5-P50		U13-P50			U13-P50					
		70	U5-P70		U13-P70			U13-P70					
		95	U5-P95		U13-P95			U13-P95					

		TOOLS AND DIES											
		 HPS-50 AP60-1 PP60-1			 HPS-130-C HPS-130-H AP130-C AP130-H PP-130-H					 PP-230-H PP-230-630			
		Section of cable	Die	 Num. press.	Cradle	Punch	 Num. press.	Die	 Num. press.	Adapter	Die	 Num. press.	
 M	COPPER	10	U5-K07	1	U13-S10	U13-PZ120	1	U13-K07	1	AD230-130	U13-K07	1	
		16	U5-K08		U13-S16			U13-K08			U13-K08		
		25	U5-K10		U13-S25			U13-K10			U13-K10		
		35	U5-K11		U13-S35			U13-K11			U13-K11		
		50	U5-K13	U13-S50	U13-K13			U13-K13					
		70	U5-K14	U13-S70	U13-K14			U13-K14					
		95	U5-K17	U13-S95	U13-K17			U13-K17					
		120	U5-K18	U13-S120	U13-K18			U13-K18					
		150	U5-K20	U13-S150	U13-K20			U13-K20					
		185	U5-K22	U13-S185	U13-K22			U13-K22					
		240	U5-K25	U13-S240	U13-K25	U13-K25							
		300		U13-S300	U13-PZ300	U13-K28	U13-K28						
		400				U13-K32	U13-K32						
		500											
630													
 RJU	COPPER	25						U13-K20D	2	AD230-130	U13-K20D	2	
		35						U13-K20D			U13-K20D		
		50						U13-K20D			U13-K20D		
		70						U13-K20D			U13-K20D		
		95						U13-K20D			U13-K20D		
		120						U13-K20D			U13-K20D		
		150						U13-K25M			U13-K25M		
		185						U13-K25M			U13-K25M		
240						U13-K32M	U13-K32M						
 TD	COPPER	10	MD10-50/MD10-CK	1					1	AD230-130	MD16-C	1	
		16	MD16-50/MD16-CK		MD16-C	MD16-C							
		25	MD25-50/MD25-CK		MD25-C	MD25-C							
		35	MD35-50/MD35-CK		MD35-C	MD35-C							
		50	MD50-50/MD50-CK	MD50-C	MD50-C								
		70	MD70-50/MD70-CK	MD-70-C	MD-70-C								
		95	MD95-50	MD95-C	MD95-C								
		120		MD120-C	MD120-C								
		150		MD150-C	MD150-C								
		185		MD185-C	MD185-C								
240		MD-240C	MD-240C										
 TCD	COPPER	6	MK5-50	1				MK6-C	1	AD230-130	MK6-C	1	
		10	MK6-50		MK8-C	MK8-C							
		16	MK8-50		MK10-C	MK10-C							
		25	MK10-50		MK12-C	MK12-C							
		35	MK12-50		MK14-C	MK14-C							
		50	MK14-50		MK16-C	MK16-C							
		70	MK16-50		MK18-C	MK18-C							
		95	MK18-50		MK20-C	MK20-C							
		120	MK20-50		MK22-C	MK22-C							
		150	MK22-50		MK25-C	MK25-C							
		185	MK25-50	MK28-C	MK28-C								
		240	MK28-50	MK32-C	MK32-C								
		300											
		300											
		400											
		500											
		625											

		TOOLS AND DIES																					
		 HPS-50 AP60-1 PP60-1			 HPS-130-C HPS-130-H AP130-C AP130-H PP-130-H					 PP-230-H PP-230-630													
		Section of cable	Die	 Num. press.	Adapter	Cradle	Punch	 Num. press.	Die	 Num. press.	Adapter	Die	Punch	 Num. press.									
 MCD	COPPER	6	MK5-CK	1																			
		10	MK6-CK																				
		16	MK8-CK																				
		25	MK10-CK																				
		35	MK12-CK																				
		50	MK14-CK																				
		70	MK16-CK																				
		95	MK18-CK	2																			
		120	MK20-CK																				
		150	MK22-CK																				
		185	MK25-CK																				
		240	MK28-CK																				
		300	MK32-CK																				
		300	MK32-CK																				
		400																					
		500																					
		625																					
800																							
1000																							
 MAL	ALUMINUM	25	U5-K11	3					U13-K11	3	AD230-130	U13-K11		3									
		35	U5-K13						U13-K13														
		50	U5-K14						U13-K14														
		70	U5-K17						U13-K17														
		95	U5-K18						U13-K18														
		120	U5-K21	U13-K21					4	U13-K25		4	U13-K25										
		150	U5-K22	U13-K28						U13-K28													
		185	U5-K25	U13-K32						U13-K32													
		240		U13-K34						U13-K34													
		300																					
 BT	ALUMINUM	25...95			AD13-150	95MCB	PPR95	2															
		120...150				150MCB	PPR150																
		185...240				U13-DC300AL	240MCB									PPR240							
		300...400																					
 RBT	ALUMINUM	50/25				95MCB	PPR95	2															
		95/50				95MCB	PPR95																
		150/50				150MCB	PPR150																
						95MCB	PPR95																
		150/95				150MCB	PPR150																
						95MCB	PPR95																
		240/95				U13-DC300AL	240MCB									PPR240							
		240/150				AD13-150	95MCB									PPR95							
U13-DC300AL	240MCB		PPR240																				
AD13-150	150MCB	PPR150																					
 RJA	ALUMINUM	25...95			AD13-150	95MC1S	PPR95	2															
		120...150				150MC1S	PPR150																
		185...240				U13-DC300AL	240MC1S									PPR240							
		300...400																					

		TOOLS AND DIES																								
		 HPS-50 AP60-1 PP60-1			 HPS-130-C HPS-130-H AP130-C AP130-H PP-130-H					 PP-230-H PP-230-630																
		Section of cable	Die	 Num. press.	Adap.	Cradle	Punch	 Num. press.	Die	 Num. press.	Adapter	Cradle	Punch	Die	 Num. press.											
 TBE / TBES	ALUMINUM	16	U5-K10	1-2					U13-K10	1-2	AD230-130			U13-K10	1-2											
		25	U5-K11	2-3					U13-K11					U13-K11												
		35	U5-K13	3-4					U13-K13					U13-K13												
		50	U5-K14						U13-K14					U13-K14												
		70	U5-K17						U13-K17					U13-K17												
		95	U5-K18						U13-K18					U13-K18												
		120	U5-K21						U13-K21	U13-K21																
		150	U5-K22						U13-K25	U13-K25				2-3	U13-K28	U13-K28										
		185	U5-K25	4					U13-K32	U13-K32																
		240							U13-K34	U13-K34																
		300																								
		300																								
300																										
 TBE/D		25	MK12B-50	2					MK12-C	2				MK12-230	2											
		35	MK14B-50						MK14-C					MK14-230												
		50	MK16B-50						MK16-C					MK16-230												
		70	MK18B-50						MK18-C					MK18-230												
		95	MK22B-50						MK22-C					MK22B-230												
		120	MK22B-50						MK22-C					MK22B-230												
		150	MK25B-50						MK25-C	MK25B-230				3	MK28B-230	MK28B-230										
		185	MK28B-50						MK28L-C	MK32B-230																
		240	MK32B-50V						MK32L-C	MK34B-230																
		300								MK34L-C					MK38B-230											
		400													MK44B-230											
		500																								
 TBEM/S TBEM/A	ALUM.	25...95			AD13-150	95MCB	PPR95	2																		
		120...150														150MCB	PPR150									
		240														U13-DC300AL	240MCB	PPR240								
		30																								
		56																								
		78																								
	10																									
	180																									
	AERIAL	30							U13-K20D	3	AD230-130				U13-K20D	3										
		56						U13-K20D	U13-K20D																	
		78						U13-K20D	U13-K20D																	
		10						U13-K25M	U13-K25M																	
180							U13-K32D	U13-K32D																		
 TDC/S	BIMETAL*	16...95			AD13-150	95MCB	PPR95	2																		
		120...150														150MCB	PPR150									
		240														J13-DC300AL	240MCB	PPR240								
		300...400																								
		500																								
 TDC/A	AERIAL	30																								
		54,6																								
		56																								
		78																								
		80																								
		110																								
 TBF	BIMETAL*	16...95			AD13-150	95MCB	PPR95	2																		
		120...150														150MCB	PPR150									
		185...240														J13-DC300AL	240MCB	PPR240								
		300...400																								
		500																								
 MBI	BIMETAL	50/16			AD13-150	95MCB	PPR95	2	U13-K08	4	AD230-130			U13-K08	4											
		50/25							U13-K10					U13-K10												
		50/35							U13-K11					U13-K11												
		95/16							U13-K08					U13-K08												
		95/25							U13-K10					U13-K10												

* Al. cable to Cu plate.

		TOOLS AND DIES													
		 HPS-50 AP60-1 PP60-1			 HPS-130-C HPS-130-H AP130-C AP130-H PP130-H					 PP-230-H PP-230-630					
		Section of cable	Die	 Num. press.	Adapter	Cradle	Punch	 Num. press.	Die	 Num. press.	Adapter	Die	 Num. press.		
 MBI	BIMETAL	95/35			AD13-150	95MC1S	PPR95	2	U13-K11	2	AD230-130	U13-K11	2		
		95/50							U13-K13			U13-K13			
		95/70							U13-K14			U13-K14			
		150/16							U13-K08			U13-K08			
		150/25							U13-K10			U13-K10			
		150/35				U13-K11	3		U13-K11			3			U13-K13
		150/50				U13-K13			U13-K13						
		150/70				U13-K14			U13-K14						
		150/95				U13-K17			U13-K17						
		150/120				U13-K18			U13-K18						
		240/16				U13-K08	5		U13-K08			5			U13-K10
		240/25				U13-K10			U13-K10						
		240/35				U13-K11			U13-K11						
		240/50				U13-K13			U13-K13						
		240/70				U13-K14			U13-K14						
240/95	U13-K17	U13-K17													
240/120	U13-K18	U13-K18													
240/150	U13-K20	U13-K20													
240/185	U13-K22	U13-K22													
 RJAU	BIMETAL	50/25			AD13-150	95MC1S		PPR95	2	U13-K20D	3		AD230-130	U13-K20D	3
		95/50					U13-K25M			U13-K25M					
		150/50					U13-K32D			U13-K32D					
		150/95				6	U13-K32D	U13-K32D							
		240/50													
		240/95													
240/150															
 CRC	COPPER	1							U13-DC10	1	AD230-130	U13-DC10	1		
		2							U13-DC10			U13-DC10			
		3							U13-DC25			U13-DC25			
		4							U13-DC25			U13-DC25			
		5							U13-DC25			U13-DC25			
		6							U13-DC35			U13-DC35			
		7							U13-DC35			U13-DC35			
		8							U13-DC35			U13-DC35			
		9							U13-DC70			U13-DC70			
		10							U13-DC70			U13-DC70			
		11							U13-DC95			U13-DC95			
		12							U13-DC95			U13-DC95			
		13							U13-DC95			U13-DC95			
		14							U13-DC185			U13-DC185			
		15							U13-DC185			U13-DC185			
 CRA	ALUMINUM	1							U13-DC35	2	AD230-130	U13-DC35	2		
		2							U13-DA70			U13-DA70			
		3							U13-DA120			U13-DA120			
		3A							U13-DA120			U13-DA120			
		4							U13-DC300AL			U13-DC300AL			
 CRS	ALUMINUM	0							U13-DA70	2	AD230-130	U13-DA70	2		
		1							U13-DC25	1		U13-DC25	1		
		3							U13-DC120	1-2		U13-DC120	1-2		
		8							U13-DA120			U13-DA120			
		9							U13-DC300AL	2-3	U13-DC300AL	2-3	U13-DC300AL		
		10							U13-DC300AL		U13-DC300AL				
		11							U13-DC300AL		U13-DC300AL				
		12							U13-DC300AL		U13-DC300AL				

Electrician Kits

KT-1000/37

KBT-1000/19

KTS-1000/56

1000V Insulated kits tools

Insulated screwdrivers

Insulated pliers

Adjustable spanner

Pliers wrench

Insulated knife

Insulated spanners

Insulated keys

Insulated extension for ratchet

Insulated ratchet

Set of insulated sockets

ELECTRICIAN KITS

1000V INSULATED TOOLS



Electrician Kits

1000V insulated tools

Tool kit

TOOLS CATALOGUE 2023



Code	Version	Dimensions
410220	KT-1000/37	300 x 430 x 200 mm
600161	MAF-430 case without tools	

410 KT-1000/37

■ **Contents:**
1000 V Insulated Tools
(according to EN 60900, IEC 900 VDE 0682-201)

Code	Description:
410005	Universal insulated pliers 175 mm
410015	Needle nose pliers 200 mm
410025	Cutting pliers 180 mm
410035	Insulated knife 180 mm
410046	Insulated flathead screwdriver 3 x 100 mm
410047	Insulated flathead screwdriver 4 x 100 mm
410048	Insulated flathead screwdriver 5.5 x 125 mm
410049	Insulated flathead screwdriver 8 x 175 mm
410050	Insulated "Phillips" screwdriver 0 x 60 mm
410051	Insulated "Phillips" screwdriver 1 x 80 mm
410052	Insulated "Phillips" screwdriver 2 x 175 mm
410053	Insulated "Phillips" screwdriver 3 x 200 mm
410056	Insulated 4 mm hex key
410057	Insulated 5 mm hex key
410058	Insulated 6 mm hex key
410059	Insulated 8 mm hex key
410060	Insulated 9 mm hex key
410061	Insulated 10 mm hex key
410065	Ratchet wrench 3/8"
410075	Insulated long extension 3/8" 300 mm
410086	Insulated 8 mm socket spanner 3/8"
410087	Insulated 9 mm socket spanner 3/8"
410088	Insulated 10 mm socket spanner 3/8"
410089	Insulated 13 mm socket spanner 3/8"
410090	Insulated 14 mm socket spanner 3/8"
410091	Insulated 16 mm socket spanner 3/8"
410092	Insulated 18 mm socket spanner 3/8"
410093	Insulated 19 mm socket spanner 3/8"
410094	Insulated 17 mm socket spanner 3/8"
410096	Insulated open-ended spanner 10 mm
410097	Insulated open-ended spanner 13 mm
410098	Insulated open-ended spanner 14 mm
410099	Insulated open-ended spanner 16 mm
410100	Insulated open-ended spanner 17 mm
410101	Insulated open-ended spanner 19 mm
410105	Cable cutting pliers 230 mm
600161	Small front-opening tool case MAF-430



Electrician Kits

1000V insulated tools

Tool kit

TOOLS CATALOGUE 2023



410 KBT-1000/19

- **Contents:**
1000 V Insulated Tools (according to EN 60900, IEC 900 VDE 0682-201) and voltage meters

Code	Description:
410005	Universal insulated pliers 175 mm
410015	Needle nose pliers 200 mm
410025	Cutting pliers 180 mm
410035	Insulated knife 180 mm
410046	Insulated flathead screwdriver 3 x 100 mm
410047	Insulated flathead screwdriver 4 x 100 mm
410048	Insulated flathead screwdriver 5.5 x 125 mm
410050	Insulated "Phillips" screwdriver 0 x 60 mm
410051	Insulated "Phillips" screwdriver 1 x 80 mm
410052	Insulated "Phillips" screwdriver 2 x 175 mm
410096	Insulated open-ended spanner 10 mm
410097	Insulated open-ended spanner 13 mm
410098	Insulated open-ended spanner 14 mm
410099	Insulated open-ended spanner 16 mm
410100	Insulated open-ended spanner 17 mm
410101	Insulated open-ended spanner 19 mm
410105	Cable cutting pliers 230 mm
635360	Multimeter CTL-1000
600162	Protective case with pouches for organising tools OHB-350

Code	Version	Dimensions
410200	KBT-1000/19	200 x 350 x 50 mm
600162	OHB-350 Briefcase without tools	





Electrician Kits

1000V insulated tools

Tool kit

TOOLS CATALOGUE 2023



410 KTS-1000/56

Code	Version	Dimensions
410210	KTS-1000/56	280 x 430 x 250 mm
600160	BKE-1680D M bag without tools	

■ Contents:

Code Description:

410005 Universal insulated pliers 175 mm
 410015 Needle nose pliers 200 mm
 410025 Cutting pliers 180 mm
 410035 Insulated knife 180 mm
 410046 Insulated flathead screwdriver 3 x 100 mm
 410047 Insulated flathead screwdriver 4 x 100 mm
 410048 Insulated flathead screwdriver 5.5 x 125 mm
 410049 Insulated flathead screwdriver 8 x 175 mm
 410051 Insulated "Phillips" screwdriver 1 x 80 mm
 410070 Insulated "Phillips" screwdriver 2 x 100 mm
 410071 Insulated "Phillips" screwdriver 3 x 150 mm
 410105 Cable cutting pliers 230 mm
 410072 Insulated 3 mm Allen key
 410073 Insulated 4 mm Allen key
 410074 Insulated 6 mm Allen key
 410081 Insulated adjustable spanner 250 mm
 410082 Insulated pliers wrench 250 mm
 410065 Ratchet wrench 3/8"
 410075 Insulated long extension 3/8" 300 mm
 410086 Insulated 8 mm socket spanner 3/8"
 410087 Insulated 9 mm socket spanner 3/8"
 410088 Insulated 10 mm socket spanner 3/8"
 410001 Insulated 12 mm socket spanner 3/8"
 410089 Insulated 13 mm socket spanner 3/8"
 410090 Insulated 14 mm socket spanner 3/8"
 410091 Insulated 16 mm socket spanner 3/8"
 410092 Insulated 18 mm socket spanner 3/8"
 410093 Insulated 19 mm socket spanner 3/8"
 410094 Insulated 17 mm socket spanner 3/8"

410003 Wrench 3/8" LV-22
 410004 Wrench 3/8" LV-23
 410201 Insulated open-ended spanner 8 mm
 410096 Insulated open-ended spanner 10 mm
 410202 Insulated open-ended spanner 11 mm
 410203 Insulated open-ended spanner 12 mm
 410097 Insulated open-ended spanner 13 mm
 410098 Insulated open-ended spanner 14 mm
 410099 Insulated open-ended spanner 16 mm
 410100 Insulated open-ended spanner 17 mm
 410101 Insulated open-ended spanner 19 mm
 565099 White helmet SP-181
 570120 Face shield SP-182
 600151 Holdall bag BA-0.6 x 10
 585001 Insulating blanket class 0 MA0-1010 1x1 m
 595114 6 Insulated clamps for blankets 50 mm 1 kV AC / 1.5 kV DC
 595200 5 Insulating cable caps class 0 6-16 mm²
 530160 Dielectric glove SG-50 T10
 540114 Leather over glove SG-C
 635360 Multimeter CTL-1000
 595010 Black insulating tape 10 m 0.15 mm PVC
 595030 Yellow/green insulating tape 20 m 0.15 mm PVC
 595040 Blue insulating tape 10 m 0.15 mm PVC
 595060 Grey insulating tape 10 m 0.15 mm PVC
 595070 Brown insulating tape 10 m 0.15 mm PVC
 595080 Red insulating tape 10 m 0.15 mm PVC
 600160 Bag for insulated tools and electrical kits BKE-1680D M



1000 V Insulated Tools

According to EN 60900, IEC 900 VDE 0682-201 and 1000 V electrical insulation



Insulated Kits Tools

1000V insulated tools

Screwdrivers

TOOLS CATALOGUE 2023



1000V / 22
IEC 60900

410 Insulated "Phillips" crosshead screwdriver

Code	Ref.	 mm	 mm
410050	PH0x60	3	60
410051	PH1x80	4.5	80
410052	PH2x175	6	175
410053	PH3x200	8	200



1000V / 22
IEC 60900

410 Insulated flathead screwdriver

Code	Ref.	 mm	 mm	 mm
410046	PL3x100	3	0.6	100
410047	PL4x100	4	0.8	100
410048	PL5.5x125	5.5	1	125
410049	PL8x175	8	1.6	175



1000V / 22
IEC 60900

410 Set of insulated flathead and "Phillips" crosshead screwdrivers

Contents:

Flathead Screwdrivers:

Insulated flathead screwdriver FL3 x 100 mm
Insulated flathead screwdriver FL4 x 100 mm
Insulated flathead screwdriver FL5.5 x 125 mm
Insulated flathead screwdriver FL8 x 175 mm

Crosshead screwdrivers:

Insulated "Phillips" screwdriver PH0 x 3 x 60 mm
Insulated "Phillips" screwdriver PH1 x 4.5 x 80 mm
Insulated "Phillips" screwdriver PH2 x 6 x 175 mm
Insulated "Phillips" screwdriver PH3 x 8 x 200 mm

Code	Ref.
410045	Set of insulated flathead and "Phillips" crosshead screwdrivers



1000V / 22
IEC 60900

410 Insulated universal pliers 175 mm

Code	Ref.	Length
410005	Plier AU-175	175 mm

- With gripping zones for flat and round materials, very versatile.
- For cutting soft and hard wire.
- Head with extra flat shape and laterally rounded.
- Made of tempered steel and chrome finish.



1000V / 22
IEC 60900

410 Insulated wire-cutting pliers 180 mm

Code	Ref.	Capacity	Length
410025	Plier AC-180	Ø 1.6 mm	180 mm

- To cut cable, nails, metal mesh and plates.
- Suitable for cutting copper and aluminum cables.



1000V / 22
IEC 60900

410 Insulated needle nose pliers

Code	Ref.	Length
410014	Plier PF-160	160 mm
410015	Plier PF-200	200 mm

- Stretched gripping surface.
- For holding cables, thin parts or small components size.
- To access narrow places that are difficult to access.



1000V / 22
IEC 60900

410 Insulated wire-cutting pliers 230 mm

Code	Ref.	Length
410105	Plier AC-230	230 mm

- Suitable for cutting copper and aluminum cables.
- Ergonomic bi-material handles for a comfortable grip.
- It allows repetitive operations to be carried out, without causing fatigue.

Insulated Kits Tools

1000V insulated tools

Adjustable spanner

TOOLS CATALOGUE 2023



1000V / 22
IEC 60900

410 Adjustable spanner 250 mm

Code	Ref.	Length
410081	LAJ-250	250 mm

- Excellent performance and long service life.
- It has a manual adjustment screw for a fast and precise adjustment of the width of the mouth.
- For fixing elements of all sizes, thanks to its mobile jaw.

Pliers wrench



1000V / 22
IEC 60900

410 Pliers wrench

Code	Ref.	Length
410082	APL-250	250 mm

- Large opening capacity, to hold rods/tubes.
- Easy access to nuts and connections.
- High resistance to torsion and bending.



1000V / 22
IEC 60900

410 Insulated knife - 180 mm

Code	Ref.	Length
410035	Knife CA-180	180 mm

- Blade specially adapted to cut the outer sheath of cables without damaging the inner conductors.
- With hook blade.
- Double edged blade.
- Comfortable dual component handle.



1000V / 22
IEC 60900

410 Insulated open-ended spanner

Code	Ref.	spanner	Length
410201	Spanner LF-8	8	80 mm
410096	Spanner LF-10	10	100 mm
410202	Spanner LF-11	11	110 mm
410203	Spanner LF-12	12	120 mm
410097	Spanner F-13	13	130 mm
410098	Spanner F-14	14	140 mm
410099	Spanner F-16	16	160 mm
410100	Spanner F-17	17	170 mm
410101	Spanner F-19	19	190 mm

- Angled head to facilitate tightening.
- Material: hardened steel.
- Insulation material: PP/TPR.
- Treatment of the insulating layer: dipping.



410 Set of insulated open-ended spanners

Code	Ref.
410095	Set of insulated open-ended spanners

Contents:

- 8 mm open-ended spanner - 80 mm long.
- 10 mm open-ended spanner - 100 mm long.
- 11 mm open-ended spanner - 110 mm long.
- 12 mm open-ended spanner - 120 mm long.
- 13 mm open-ended spanner - 130 mm long.
- 14 mm open-ended spanner - 140 mm long.
- 15 mm open-ended spanner - 150 mm long.
- 16 mm open-ended spanner - 160 mm long.
- 17 mm open-ended spanner - 170 mm long.
- 19 mm open-ended spanner - 190 mm long.



410 Insulated T shaped hex key

Code	Ref.	 Spanners	Dimensions
410056	Key T HEX - 4	4	90 x 200 mm
410057	Key T HEX - 5	5	
410058	Key T HEX - 6	6	
410059	Key T HEX - 8	8	
410060	Key T HEX - 9	9	
410061	Key T HEX - 10	10	

- Material: hardened steel.
- Insulation material: PP/TPR.
- Treatment of the insulating layer: dipping.



410 L-shaped hex key

Code	Ref.	Length
410073	L-shaped hex key	4 mm
410074		6 mm

- Material: hardened steel.
- Insulation material: PP/TPR.
- Treatment of the insulating layer: dipping.



410 Set of insulated T shaped hex keys

Code	Ref.
410055	Set of insulated T shaped hex keys

Contents:

- 4 mm T shaped hex key - 90 x 200 mm
- 5 mm T shaped hex key - 90 x 200 mm
- 6 mm T shaped hex key - 90 x 200 mm
- 8 mm T shaped hex key - 90 x 200 mm
- 9 mm T shaped hex key - 90 x 200 mm
- 10 mm T shaped hex key - 90 x 200 mm

Insulated Kits Tools

1000V insulated tools

Keys

TOOLS CATALOGUE 2023



410 Cross Key

Code	Ref.	Keys	Length
410300	Cross Key	6/8/10/12	150 mm
410301	Cross Key	7/9/11/13	
410302	Cross Key	8/10/12/14	
410303	Cross Key	8/10/13/17	
410304	Cross Key	10/12/13/17	
410305	Cross Key	10/13/14/17	
410306	Cross Key	10/13/17/19	
410307	Cross Key	13/14/16/17	
410308	Cross Key	13/16/17/19	

- multi-point tool
- 4 galvanically separated socket wrenches.
- Insert made of CrV steel.
- Handle made of insulating material - glass fiber reinforced polyamide.
- Tool manufactured in accordance with IEC 60900



410 Insulated socket wrench 3/8"

Code	Ref.	Dimensions
410065	Insulated key LC-3/8	3/8"

- Material: hardened steel.
- Insulation material: PP/TPR.
- Treatment of the insulating layer: injection.

Sockets



410 Set of insulated 3/8" sockets Hexagon/female sockets

Code	Ref.
410085	Set of insulated 3/8" sockets Hexagon/female sockets.

Contents:

- 8 mm insulated socket 3/8"
- 9 mm insulated socket 3/8"
- 10 mm insulated socket 3/8"
- 13 mm insulated socket 3/8"
- 14 mm insulated socket 3/8"
- 16 mm insulated socket 3/8"
- 17 mm insulated socket 3/8"
- 18 mm insulated socket 3/8"
- 19 mm insulated socket 3/8"

Insulated collar on each socket to prevent arcing.

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Order Number Index

Code	Ref.	Page	Code	Ref.	Page	Code	Ref.	Page
Connection								
001100	T-185/4H	016	005800	TCD-185/10	019	008430	T90-35/10	013
001110	T-240/4H	016	005810	TCD-185/12	019	008520	T90-50/10	013
001120	T-300/4H	016	005820	TCD-185/14	019	008530	T90-50/12	013
001130	T-400/4H	016	005830	TCD-185/16	019	008580	T90-70/10	013
001140	T-500/4H	016	005840	TCD-185/20	019	008590	T90-70/12	013
001150	T-630/4H	016	005860	TCD-240/12	019	008660	T90-95/14	013
001160	T-800/4H	016	005870	TCD-240/14	019	008670	T90-95/16	013
002530	TDT-50/12	016	005880	TCD-240/16	019	008720	T90-120/14	013
002590	TDT-70/12	016	005890	TCD-240/20	019	008730	T90-120/16	013
002650	TDT-95/12	016	005910	TCD-300/14	019	008770	T90-150/14	013
002710	TDT-120/12	016	005920	TCD-300/16	019	008780	T90-150/16	013
002760	TDT-150/12	016	005930	TCD-300/20	019	008830	T90-185/16	013
002810	TDT-185/12	016	005945	TCD-400/14	019	008880	T90-240/16	013
002860	TDT-240/16	016	005950	TCD-400/16	019	009120	TT-2,5/3*	020
002900	TDT-300/16	016	005960	TCD-400/20	019	009130	TT-2,5/4*	020
002940	TDT-400/16	016	005980	TCD-500/16	019	009140	TT-2,5/5*	020
002980	TDT-500/16	016	005981	TCD-500/20	019	009170	TT-4/4*	020
004130	MCD-6	017	005988	TCD-625/16	019	009180	TT-4/5*	020
004140	MCD-10	017	005990	TCD-625/20	019	009190	TT-4/6*	020
004150	MCD-16	017	005994	TCD-800/16	019	009220	TT-6/5*	020
004160	MCD-25	017	005995	TCD-800/20	019	009230	TT-6/6*	020
004170	MCD-35	017	005998	TCD-1000/16	019	009240	TT-6/8*	020
004190	MCD-50	017	005999	TCD-1000/20	019	009260	TT-10/5	020
004200	MCD-70	017	006270	TL-10/6	011	009270	TT-10/6	020
004210	MCD-95	017	006280	TL-10/8	011	009280	TT-10/8	020
004220	MCD-120	017	006320	TL-16/6	011	009290	TT-10/10	020
004230	MCD-150	017	006330	TL-16/8	011	009320	TT-16/6	020
004240	MCD-185	017	006370	TL-25/8	011	009330	TT-16/8	020
004250	MCD-240	017	006380	TL-25/10	011	009340	TT-16/10	020
004260	MCD-300	017	006420	TL-35/8	011	009360	TT-25/6	020
004270	MCD-400	017	006430	TL-35/10	011	009370	TT-25/8	020
004280	MCD-500	017	006520	TL-50/10	011	009380	TT-25/10	020
004290	MCD-625	017	006530	TL-50/12	011	009410	TT-35/6	020
004300	MCD-800	017	006580	TL-70/10	011	009420	TT-35/8	020
004310	MCD-1000	017	006590	TL-70/12	011	009430	TT-35/10	020
005220	TCD-6/5	018	006650	TL-95/12	011	009510	TT-50/8	020
005230	TCD-6/6	018	006660	TL-95/14	011	009520	TT-50/10	020
005240	TCD-6/8	018	006670	TL-95/16	011	009530	TT-50/12	020
005260	TCD-10/5	018	006710	TL-120/12	011	009570	TT-70/8	020
005270	TCD-10/6	018	006720	TL-120/14	011	009580	TT-70/10	020
005280	TCD-10/8	018	006730	TL-120/16	011	009590	TT-70/12	020
005320	TCD-16/6	018	006760	TL-150/12	011	009630	TT-95/8	021
005330	TCD-16/8	018	006770	TL-150/14	011	009640	TT-95/10	021
005340	TCD-16/10	018	006780	TL-150/16	011	009650	TT-95/12	021
005350	TCD-16/12	018	006810	TL-185/12	011	009660	TT-95/14	021
005360	TCD-25/6	018	006820	TL-185/14	011	009670	TT-95/16	021
005370	TCD-25/8	018	006830	TL-185/16	011	009700	TT-120/10	021
005380	TCD-25/10	018	006860	TL-240/12	011	009710	TT-120/12	021
005390	TCD-25/12	018	006870	TL-240/14	011	009720	TT-120/14	021
005410	TCD-35/6	018	006880	TL-240/16	011	009730	TT-120/16	021
005420	TCD-35/8	018	006920	TL-300/16	011	009750	TT-150/10	021
005430	TCD-35/10	018	006950	TL-400/16	011	009760	TT-150/12	021
005440	TCD-35/12	018	006980	TL-500/16	011	009770	TT-150/14	021
005450	TCD-35/14	018	006985	TL-630/16	011	009780	TT-150/16	021
005510	TCD-50/8	018	007270	T45-10/6	012	009810	TT-185/12	021
005520	TCD-50/10	018	007280	T45-10/8	012	009820	TT-185/14	021
005530	TCD-50/12	018	007320	T45-16/6	012	009830	TT-185/16	021
005540	TCD-50/14	018	007330	T45-16/8	012	009860	TT-240/12	021
005550	TCD-50/16	018	007370	T45-25/8	012	009870	TT-240/14	021
005570	TCD-70/8	018	007380	T45-25/10	012	009880	TT-240/16	021
005580	TCD-70/10	018	007420	T45-35/8	012	009890	TT-240/20	021
005590	TCD-70/12	018	007430	T45-35/10	012	009910	TT-300/14	021
005600	TCD-70/14	018	007520	T45-50/10	012	009920	TT-300/16	021
005610	TCD-70/16	018	007530	T45-50/12	012	009930	TT-300/20	021
005630	TCD-95/8	018	007580	T45-70/10	012	009950	TT-400/16	021
005640	TCD-95/10	018	007590	T45-70/12	012	009960	TT-400/20	021
005650	TCD-95/12	018	007660	T45-95/14	012	010100	T-1,5/4	008
005660	TCD-95/14	018	007670	T45-95/16	012	010110	T-1,5/5	008
005670	TCD-95/16	018	007720	T45-120/14	012	010120	T-1,5/6	008
005700	TCD-120/10	019	007730	T45-120/16	012	010130	T-2,5/4	008
005710	TCD-120/12	019	007770	T45-150/14	012	010140	T-2,5/5	008
005720	TCD-120/14	019	007780	T45-150/16	012	010150	T-2,5/6	008
005730	TCD-120/16	019	007830	T45-185/16	012	010160	T-2,5/8	008
005740	TCD-120/20	019	007880	T45-240/16	012	010170	T-4/4	008
005750	TCD-150/10	019	008270	T90-10/6	013	010180	T-4/5	008
005760	TCD-150/12	019	008280	T90-10/8	013	010190	T-4/6	008
005770	TCD-150/14	019	008320	T90-16/6	013	010200	T-4/8	008
005780	TCD-150/16	019	008330	T90-16/8	013	010210	T-6/4	008
005790	TCD-150/20	019	008370	T90-25/8	013	010220	T-6/5	008
			008380	T90-25/10	013	010230	T-6/6	008
			008420	T90-35/8	013	010240	T-6/8	008

Order Number Index

Code	Ref.	Page	Code	Ref.	Page	Code	Ref.	Page
010260	T-10/5	008	017170	RJU0-35	010	032125	TPE-50/8	014
010270	T-10/6	008	017180	RJU1-50	010	032126	TPE-50/10	014
010280	T-10/8	008	017190	RJU1-70	010	032130	TPE-70/6	014
010290	T-10/10	008	017200	RJU1-95	010	032131	TPE-70/8	014
010310	T-16/5	008	017210	RJU2-120	010	032132	TPE-70/10	014
010320	T-16/6	008	017220	RJU2-150	010	032140	TPE-95/8	014
010330	T-16/8	008	017230	RJU4-185	010	032145	TPE-95/10	014
010340	T-16/10	008	017240	RJU4-240	010	032149	TPE-120/8	014
010350	T-16/12	008	020100	TD-1,5/3	022	032150	TPE-120/10	014
010360	T-25/6	008	020110	TD-1,5/4	022	032155	TPE-150/8	014
010370	T-25/8	008	020120	TD-1,5/5	022	032160	TPE-150/10	014
010380	T-25/10	008	020130	TD-2,5/3	022	032161	TPE-150/12	014
010390	T-25/12	008	020140	TD-2,5/4	022	032170	TPE-185/10	014
010410	T-35/6	008	020150	TD-2,5/5	022	032171	TPE-185/12	014
010420	T-35/8	008	020160	TD-2,5/6	022	032180	TPE-240/10	014
010430	T-35/10	008	020170	TD-2,5/8	022	032181	TPE-240/12	014
010440	T-35/12	008	020180	TD-6/4	022	080100	MAL-25	029
010450	T-35/14	008	020190	TD-6/5	022	080110	MAL-35	029
010500	T-50/6	008	020200	TD-6/6	022	080120	MAL-50	029
010510	T-50/8	008	020210	TD-6/8	022	080130	MAL-70	029
010520	T-50/10	008	020220	TD-6/10	022	080140	MAL-95	029
010530	T-50/12	008	020230	TD-10/5	022	080150	MAL-120	029
010540	T-50/14	008	020240	TD-10/6	022	080160	MAL-150	029
010550	T-50/16	008	020250	TD-10/8	022	080170	MAL-185	029
010570	T-70/8	009	020260	TD-10/10	022	080180	MAL-240	029
010580	T-70/10	009	020270	TD-10/12	022	080190	MAL-300	029
010590	T-70/12	009	020280	TD-16/5	022	085100	BT-25	033
010600	T-70/14	009	020290	TD-16/6	022	085110	BT-35	033
010610	T-70/16	009	020300	TD-16/8	022	085120	BT-50	033
010630	T-95/8	009	020310	TD-16/10	022	085130	BT-70	033
010640	T-95/10	009	020320	TD-16/12	022	085140	BT-95	033
010650	T-95/12	009	020330	TD-25/6	022	085150	BT-120	033
010660	T-95/14	009	020340	TD-25/8	022	085160	BT-150	033
010670	T-95/16	009	020350	TD-25/10	022	085170	BT-185	033
010690	T-120/8	009	020360	TD-25/12	022	085180	BT-240	033
010700	T-120/10	009	020370	TD-25/16	022	085190	BT-300	033
010710	T-120/12	009	020380	TD-35/6	022	085200	BT-400	033
010720	T-120/14	009	020390	TD-35/8	022	090100	RBT-50/25	033
010730	T-120/16	009	020400	TD-35/10	022	090110	RBT-95/50	033
010750	T-150/10	009	020410	TD-35/12	022	090120	RBT-150/50	033
010760	T-150/12	009	020420	TD-35/16	022	090130	RBT-150/95	033
010770	T-150/14	009	020430	TD-50/6	023	090140	RBT-240/95	033
010780	T-150/16	009	020440	TD-50/8	023	090150	RBT-240/150	033
010800	T-185/10	009	020450	TD-50/10	023	095100	RJ1A-25	032
010810	T-185/12	009	020460	TD-50/12	023	095110	RJ1A-35	032
010820	T-185/14	009	020470	TD-50/16	023	095120	RJ1A-50*	032
010830	T-185/16	009	020480	TD-70/6	023	095130	RJ1A-70	032
010850	T-240/10	009	020490	TD-70/8	023	095140	RJ1A-95*	032
010860	T-240/12	009	020500	TD-70/10	023	095150	RJ2A-120	032
010870	T-240/14	009	020510	TD-70/12	023	095160	RJ2A-150*	032
010880	T-240/16	009	020520	TD-70/16	023	095170	RJ4A-185	032
010900	T-300/12	009	020530	TD-95/8	023	095180	RJ4A-240*	032
010910	T-300/14	009	020540	TD-95/10	023	095190	RJ5A-300	032
010920	T-300/16	009	020550	TD-95/12	023	095200	RJ5A-400*	032
010940	T-400/12	009	020560	TD-95/16	023	100099	RJ1A-50/16	030
010950	T-400/16	009	020570	TD-120/8	023	100100	RJ1A-50/25	030
010960	T-400/20	009	020580	TD-120/10	023	100105	RJ1A-50/35	030
010980	T-500/16	009	020590	TD-120/12	023	100113	RJ1A-70/25	030
010985	T-500/20	009	020600	TD-120/16	023	100114	RJ1A-70/35	030
010988	T-630/16	009	020610	TD-150/10	023	100115	RJ1A-70/50	030
010990	T-630/20	009	020620	TD-150/12	023	100137	RJ1A-95/16	030
015100	M-1,5	010	020630	TD-150/16	023	100138	RJ1A-95/25	030
015110	M-2,5	010	020640	TD-185/10	023	100139	RJ1A-95/35	030
015120	M-4	010	020650	TD-185/12	023	100140	RJ1A-95/50	030
015130	M-6	010	020660	TD-185/16	023	100143	RJ1A-95/70	030
015140	M-10	010	020670	TD-240/10	023	100145	RJ2A-120/70	030
015150	M-16	010	020680	TD-240/12	023	100146	RJ2A-120/95	030
015160	M-25	010	020690	TD-240/16	023	100147	RJ2A-150/16	030
015170	M-35	010	025130	CP-10	014	100148	RJ2A-150/25	030
015190	M-50	010	025140	CP-16	014	100149	RJ2A-150/35	030
015200	M-70	010	025150	CP-25	014	100150	RJ2A-150/50	030
015210	M-95	010	025160	CP-35	014	100158	RJ2A-150/70	030
015220	M-120	010	025170	CP-50	014	100160	RJ2A-150/95	030
015230	M-150	010	025180	CPP-10	015	100161	RJ2A-150/120	030
015240	M-185	010	025190	CPP-16	015	100163	RJ4A-240/25	031
015250	M-240	010	025200	CPP-25	015	100164	RJ4A-240/35	031
015260	M-300	010	025210	CPP-35	015	100165	RJ4A-240/50	031
015270	M-400	010	025220	CPP-50	015	100168	RJ4A-240/70	031
015280	M-500	010	025230	CPP-70	015	100170	RJ4A-240/95	031
015290	M-630	010	025240	CPP-95	015	100175	RJ4A-240/120	031
017160	RJU0-25	010	032124	TPE-50/6	014	100180	RJ4A-240/150	031

Order Number Index

Code	Ref.	Page	Code	Ref.	Page	Code	Ref.	Page
100181	RJ4A-240/185	031	112190	TBPE-240	036	120150	TBES-120	036
100182	RJ5A-300/16	031	112200	TBPE-300	036	120160	TBES-150	036
100183	RJ5A-300/25	031	112210	TBPE-400	036	120170	TBES-185	036
100184	RJ5A-300/35	031	115351	TBE/D-25/8	034	120180	TBES-240	036
100185	RJ5A-300/50	031	115352	TBE/D-25/10	034	120190	TBES-300	036
100186	RJ5A-300/70	031	115353	TBE/D-25/12	034	125100	TBEM/S-25	037
100187	RJ5A-300/95	031	115354	TBE/D-35/8	034	125110	TBEM/S-35	037
100188	RJ5A-300/120	031	115355	TBE/D-35/10	034	125120	TBEM/S-50	037
100189	RJ5A-300/150	031	115356	TBE/D-35/12	034	125130	TBEM/S-70	037
100190	RJ5A-300/185	031	115357	TBE/D-50/8	034	125140	TBEM/S-95	037
100191	RJ5A-300/240	031	115358	TBE/D-50/10	034	125150	TBEM/S-120	037
100193	RJ5A-400/16	031	115359	TBE/D-50/12	034	125160	TBEM/S-150	037
100194	RJ5A-400/25	031	115360	TBE/D-70/8	034	125180	TBEM/S-240	037
100195	RJ5A-400/35	031	115361	TBE/D-70/10	034	125190	TBEM/A-30	037
100196	RJ5A-400/50	031	115319	TBE/D-70/12	034	125200	TBEM/A-56	037
100197	RJ5A-400/70	031	115362	TBE/D-95/8	034	125210	TBEM/A-78	037
100198	RJ5A-400/95	031	115363	TBE/D-95/10	034	125220	TBEM/A-100	037
100199	RJ5A-400/120	031	115364	TBE/D-95/12	034	125230	TBEM/A-110	037
100200	RJ5A-400/150	031	115365	TBE/D-95/16	034	125235	TBEM/A-125	037
100205	RJ5A-400/185	031	115366	TBE/D-120/10	034	125240	TBEM/A-145	037
100210	RJ5A-400/240	031	115367	TBE/D-120/12	034	125250	TBEM/A-180	037
100215	RJ5A-400/300	031	115368	TBE/D-120/16	034	125500	KIT SCREW INOX	037
101102	TTG-16/50/8	024	115369	TBE/D-150/10	034	125600	KIT SCREW INOX	037
101103	TTG-16/50/10	024	115370	TBE/D-150/12	034	130097	MBI-50/16	041
101104	TTG-16/50/12	024	115371	TBE/D-150/16	034	130100	MBI-50/25	041
101105	TTG-50/8*	024	115372	TBE/D-185/10	034	130101	MBI-50/35	041
101106	TTG-50/10*	024	115339	TBE/D-185/12	034	130107	MBI-95/16	041
101107	TTG-50/12*	024	115373	TBE/D-185/16	034	130108	MBI-95/25	041
101113	TTG-95/8*	024	115374	TBE/D-240/12	034	130109	MBI-95/35	041
101114	TTG-95/10*	024	115375	TBE/D-240/16	034	130110	MBI-95/50	041
101115	TTG-95/12*	024	115376	TBE/D-240/20	034	130111	MBI-95/70	041
101135	TTG-150/10*	024	115349	TBE/D-300/12	034	130117	MBI-150/16	041
101136	TTG-150/12*	024	115377	TBE/D-300/16	034	130118	MBI-150/25	041
101099	TTG-240/10*	024	115378	TBE/D-300/20	034	130119	MBI-150/35	041
101100	TTG-240/12*	024	115379	TBE/D-400/12	034	130120	MBI-150/50	041
101119	TTG-400/12	024	115380	TBE/D-400/16	034	130125	MBI-150/70	041
101120	TTG-400/16	024	115381	TBE/D-400/20	034	130130	MBI-150/95	041
101124	TTG-630/12/T3	024	115382	TBE/D-500/12	034	130132	MBI-150/120	041
101125	TTG-630/16/T3	024	115383	TBE/D-500/16	034	130133	MBI-240/25	041
101126	TTG-630/20/T3	024	115384	TBE/D-500/20	034	130134	MBI-240/35	041
101127	TTG-1000/20/T4	024	111090	TDC/S-16	039	130135	MBI-240/50	041
101175	MATP-95/240	028	111100	TDC/S-25	039	130136	MBI-240/70	041
101180	TTG/2-240/10	025	111110	TDC/S-35	039	130137	MBI-240/95	041
101185	TTG/2-240/12	025	111118	TDC/S-50/8	039	130138	MBI-240/120	041
101200	MTG-95/240	027	111119	TDC/S-50/10	039	130140	MBI-240/150	041
101201	MTG-240/400	027	111120	TDC/S-50	039	130141	MBI-240/185	041
101202	MTG-500/630	027	111130	TDC/S-70	039	130142	MBI-240/16	041
101203	MTG-800/1000	027	111139	TDC/S-95/10	039	135090	RJ1AU-50/16	042
101204	MTG-25/95	027	111140	TDC/S-95	039	135100	RJ1AU-50/25	042
101210	MBPT-95/50	032	111150	TDC/S-120	039	135101	RJ1AU-50/35	042
101230	MTG/R	027	111160	TDC/S-150	039	135105	RJ1AU-70/50	042
101250	MATP-50	028	111170	TDC/S-185	039	135109	RJ1AU-95/25	042
101255	MATP-95	028	111179	TDC/S-240/10	039	135110	RJ1AU-95/50	042
101260	MATP-150	028	111180	TDC/S-240	039	135111	RJ1AU-95/70	042
101265	MATP-240	028	111184	TDC/S-300/10	039	135113	RJ1AU-95/35	042
101270	MATP-25/95	028	111185	TDC/S-400/10	039	135114	RJ2AU-120/50	042
101380	BTF-400/630	025	111190	TDC/S-400	039	135115	RJ2AU-120/70	042
101385	BTF-800/1000	025	111200	TDC/A-30	038	135116	RJ2AU-120/95	042
101400	TTGA-50/8	026	111205	TDC/A-54,6	038	135117	RJ2AU-150/16	042
101405	TTGA-50/10	026	111210	TDC/A-56	038	135118	RJ2AU-150/25	042
101410	TTGA-50/12	026	111220	TDC/A-78	038	135119	RJ2AU-150/35	042
101415	TTGA-95/8	026	111225	TDC/A-80	038	135120	RJ2AU-150/50	042
101420	TTGA-95/10	026	111230	TDC/A-110	038	135121	RJ2AU-150/120	042
101425	TTGA-95/12	026	111240	TDC/A-180	038	135124	RJ2AU-150/70	042
101438	TTGA-150/10	026	115090	TBE-16	036	135130	RJ2AU-150/95	042
101439	TTGA-150/12	026	115100	TBE-25	036	135132	RJ4AU-240/25	043
101450	TTGA-240/10	026	115110	TBE-35	036	135133	RJ4AU-240/35	043
101455	TTGA-240/12	026	115120	TBE-50	036	135134	RJ4AU-240/50	043
110100	TBF-16	035	115130	TBE-70	036	135135	RJ4AU-240/70	043
110110	TBF-25	035	115140	TBE-95	036	135137	RJ4AU-240/95	043
110112	RJ1A-70/16	030	115150	TBE-120	036	135138	RJ4AU-240/120	043
110120	TBF-35	035	115160	TBE-150	036	135140	RJ4AU-240/150	043
110130	TBF-50	035	115170	TBE-185	036	135144	RJ4AU-240/185	043
110140	TBF-70	035	115180	TBE-240	036	135154	RJ4AU-185/120	042
110150	TBF-95	035	115190	TBE-300	036	135155	RJ1AU-70/16	042
110160	TBF-120	035	120090	TBES-16	036	135156	RJ1AU-70/25	042
110170	TBF-150	035	120100	TBES-25	036	135157	RJ1AU-70/35	042
110180	TBF-185	035	120110	TBES-35	036	135158	RJ1AU-95/16	042
110190	TBF-240	035	120120	TBES-50	036	135159	RJ2AU-120/16	042
110200	TBF-300	035	120130	TBES-70	036	135160	RJ2AU-120/25	042
110210	TBF-400	035	120140	TBES-95	036	135161	RJ2AU-120/35	042

Order Number Index

Code	Ref.	Page	Code	Ref.	Page	Code	Ref.	Page
135162	RJ4AU-185/16	042	155201	PGC/BA3-10	046	246120	APF-1,00 W	056
135163	RJ4AU-185/25	042	155203	PGC/B3-10	046	246130	APF-1,50 W	056
135164	RJ4AU-185/35	042	155205	PGC/B2-8	046	246140	APF-2,50 W	056
135165	RJ4AU-185/50	042	155206	PGC/A2-8	046	246150	APF-4,00 W	056
135166	RJ4AU-185/70	042	160100	APB-25/25	047	246160	APF-6,00 W	056
135167	RJ4AU-185/95	042	160110	APB-35/35	047	246170	APF-10,00 W	056
135168	RJ4AU-185/150	042	160120	APB-50/50	047	246180	APF-16,00 W	056
135169	RJ4AU-240/16	043	160130	APB-70/70	047	246190	APF-25,00 W	056
135170	RJ5AU-300/16	043	160140	APB-120/120	047	246200	APF-35,00 W	056
135171	RJ5AU-300/25	043	165010	APC-6/6	047	246210	APF-50,00 W	056
135172	RJ5AU-300/35	043	165020	APC-10/6	047	250110	APF-0,75 D	056
135173	RJ5AU-300/50	043	165030	APC-16/16	047	250160	APF-6,00 D	056
135174	RJ5AU-300/70	043	165040	APC-25/25	047	250170	APF-10,00 D	056
135175	RJ5AU-300/95	043	165090	APC-35/35	047	250180	APF-16,00 D	056
135176	RJ5AU-300/120	043	165100	APC-50/50	047	250190	APF-25,00 D	056
135177	RJ5AU-300/150	043	165110	APC-70/70	047	255100	APF/D-0,50 D	058
135178	RJ5AU-300/185	043	165115	APC-95/95	047	255110	APF/D-0,75 D	058
135179	RJ5AU-300/240	043	165120	APC-120/120	047	255120	APF/D-1,00 D	058
135180	RJ5AU-400/16	043	165130	APC-185/185	047	255130	APF/D-1,50 D	058
135181	RJ5AU-400/25	043	165140	APC-240/240	047	255140	APF/D-2,50 D	058
135182	RJ5AU-400/35	043	170100	GTR-50/150	079	255150	APF/D-4,00 D	058
135183	RJ5AU-400/50	043	171100	TMV-8	081	255160	APF/D-6,00 D	058
135184	RJ5AU-400/70	043	171110	CDCC-50	081	255170	APF/D-10,00 D	058
135185	RJ5AU-400/95	043	171120	GDC-25	081	255180	APF/D-16,00 D	058
135186	RJ5AU-400/120	043	171121	GDC-50	081	256100	APF/D-0,50 W	058
135187	RJ5AU-400/150	043	171122	GDC-95	081	256110	APF/D-0,75 W	058
135188	RJ5AU-400/185	043	175100	TRP-1-25/150	080	256120	APF/D-1,00 W	058
135189	RJ5AU-400/240	043	175110	TRP-2-25/150	080	256130	APF/D-1,50 W	058
135190	RJ5AU-400/300	043	175120	TRP-2-25/150-R	080	256160	APF/D-6,00 W	058
136090	ABT/CT-35/6	065	180100	TR-10/50	048	256170	APF/D-10,00 W	058
136091	ABT/CT-95/10	065	180110	TR-25/120	048	256180	APF/D-16,00 W	058
136120	ABT/CT-95/35	065	180120	TR-70/150	048	258110	APF/D-0,75	058
136130	ABT/CT-150/35	065	180130	TR-150/240	048	258140	APF/D-2,50	058
136140	ABT/CT-95/95	065	180140	TR-240/400	048	258150	APF/D-4,00	058
136142	ABT/CT-150/150	065	185100	TRE-10/50	048	258160	APF/D-6,00	058
136150	ABT/CT-185/185-2	065	185110	TRE-25/120	048	258170	APF/D-10,00	058
136151	ABT/CT-240/120	065	190100	TRM-10/50	049	258180	APF/D-16,00	058
136152	ABT/CT-240/240-2	065	190110	TRM-25/120	049	260100	APF/L-0,50	056
137100	PA-1500	066	190120	TRM-70/150	049	260110	APF/L-0,75	056
137099	PA-1000	066	195100	TRT-10/50	049	260120	APF/L-1,00	056
137105	PA-2000	066	195110	TRT-25/120	049	260130	APF/L-1,50	056
137120	PA-25	066	195120	TRT-70/150	049	260140	APF/L-2,50	056
140100	CRA-1	051	200100	TRF-25/50	050	260150	APF/L-4,00	056
140110	CRA-2	051	200110	TRF-50/80	050	260160	APF/L-6,00	056
140120	CRA-3	051	200120	TRF-80/150	050	260170	APF/L-10,00	056
140122	CRA-3A	051	200130	TRF-150/240	050	260180	APF/L-16,00	056
140130	CRA-4	051	200140	TRF/D-25/50	050	260190	APF/L-25,00	056
145120	CRC-3	051	200150	TRF/D-50/80	050	260200	APF/L-35,00	056
145130	CRC-4	051	200160	TRF/D-80/150	050	260200	APF/L-35,00	056
145140	CRC-5	051	200170	TRF/D-150/240	050	260210	APF/L-50,00	056
145150	CRC-6	051	220100	BEB-63	053	261100	APF/L-0,50 W	056
145160	CRC-7	051	220110	BEB-95	053	261110	APF/L-0,75 W	056
145170	CRC-8	051	220120	BEB-150	053	261120	APF/L-1,00 W	056
145180	CRC-9	051	220130	BEB-240	053	261130	APF/L-1,50 W	056
145190	CRC-10	051	231100	ADRI-6	053	261140	APF/L-2,50 W	056
145200	CRC-11	051	231110	ADRI-10	053	261150	APF/L-4,00 W	056
145210	CRC-12	051	231120	ADRI-16	053	261160	APF/L-6,00 W	056
145220	CRC-13	051	231130	ADRI-25	053	261170	APF/L-10,00 W	056
145230	CRC-14	051	231140	ADRI-35	053	261180	APF/L-16,00 W	056
145240	CRC-15	051	233130	BUS-10/16	054	261190	APF/L-25,00 W	056
145250	CRC-16	051	233150	BUS-25/35	054	261200	APF/L-35,00 W	056
151090	CRS-0	052	233160	BUS-50	054	261210	APF/L-50,00 W	056
151100	CRS-1	052	233170	BUS-70	054	262110	APF/L-0,75 D	056
151120	CRS-3	052	233180	BUS-95	054	262160	APF/L-6,00 D	056
151170	CRS-8	052	233190	BUS-120	054	262170	APF/L-10,00 D	056
151180	CRS-9	052	233200	BUS-150	054	262180	APF/L-16,00 D	056
151190	CRS-10	052	240100	PTR	080	262190	APF/L-25,00 D	056
151200	CRS-11	052	245100	APF-0,50	056	265100	PF-0,50/6	060
151210	CRS-12	052	245110	APF-0,75	056	265110	PF-0,75/6	060
155001	LBE-2-ID	044	245120	APF-1,00	056	265120	PF-1,00/10	060
155002	LBE-3-ID	044	245130	APF-1,50	056	265140	PF-1,50/10	060
155003	LBE-4-ID	044	245140	APF-2,50	056	265160	PF-2,50/10	060
155100	LB-1	044	245150	APF-4,00	056	265190	PF-4,00/12	060
155110	LB-2	044	245160	APF-6,00	056	265200	PF-6,00/12	060
155120	LB-3	044	245170	APF-10,00	056	265220	PF-10,00/18	060
155130	LB-4	044	245180	APF-16,00	056	265240	PF-16,00/18	060
155140	LB-5	044	245190	APF-25,00	056	265255	PF-25,00/22	060
155150	LB-6	044	245200	APF-35,00	056	265258	PF-35,00/25	060
155160	LB-7	044	245210	APF-50,00	056	265265	PF-50,00/25	060
156100	TPA-95	045	246100	APF-0,50 W	056	270100	AT-1,5/3	061
156110	TPA/D-95	045	246110	APF-0,75 W	056	270110	AT-1,5/4	061

Order Number Index

Code	Ref.	Page	Code	Ref.	Page	Code	Ref.	Page
270120	AT-1,5/5	061	335170	BRB-250.36	071	367130	BIP-180 CV	068
270130	AT-1,5/6	061	335180	BRB-300.36	071	368100	MULTI-50	069
270140	AT-1,5/8	061	335190	BRB-370.36	071	368110	MULTI-100	069
270150	AT-1,5/10	061	335200	BRB-190.48	071	368120	MULTI-150	069
270160	AT-2,5/3	061	335210	BRB-250.48	071	368130	MULTI-200	069
270170	AT-2,5/4	061	335220	BRB-280.48	071	368140	MULTI-300	069
270180	AT-2,5/5	061	335230	BRB-370.48	071	368150	MULTI-400	069
270190	AT-2,5/6	061	335240	BRB-390.48	071	369100	ES-7	069
270200	AT-2,5/8	061	335250	BRB-200.76	071	369110	ES-9	069
270210	AT-2,5/10	061	335260	BRB-250.76	071	369120	ES-10	069
270220	AT-6/4	061	335270	BRB-300.76	071	369130	ES-11	069
270230	AT-6/5	061	335280	BRB-380.76	071	369140	ES-12	069
270240	AT-6/6	061	335290	BRN-80.24	071	369150	ES-13	069
270250	AT-6/8	061	335300	BRN-100.25	071	369160	ES-14	069
270260	AT-6/10	061	335310	BRN-140.25	071	369170	ES-17	069
275100	AU-1,5/3	061	335320	BRN-160.25	071	369180	ES-20	069
275110	AU-1,5/4	061	335330	BRN-200.25	071	369190	ES-25	069
275120	AU-1,5/5	061	335340	BRN-150.36	071	369200	ES-30	069
275130	AU-1,5/6	061	335350	BRN-200.36	071	369210	ES-36	069
275140	AU-1,5/8	061	335360	BRN-250.36	071	369220	ES-40	069
275160	AU-2,5/3	061	335370	BRN-300.36	071	369230	ES-52	069
275170	AU-2,5/4	061	335380	BRN-370.36	071	370100	CCS-6/35	068
275180	AU-2,5/5	061	335390	BRN-190.48	071	370110	CCS-25/185	068
275190	AU-2,5/6	061	335400	BRN-250.48	071	371100	F-104	074
275200	AU-2,5/8	061	335410	BRN-280.48	071	371110	F-107	074
275220	AU-6/4	061	335420	BRN-370.48	071	371120	F-204	074
275230	AU-6/5	061	335430	BRN-390.48	071	371130	F-207	074
275240	AU-6/6	061	335440	BRN-200.76	071	371140	A-100	074
275250	AU-6/8	061	335450	BRN-250.76	071	371150	A-200	074
280100	AFH-1,5/2,8	062	335460	BRN-300.76	071	371160	AM-25	074
280120	AFH-1,5/4,8	062	335470	BRN-380.76	071	371170	AM-40	074
280130	AFH-1,5/6,3	062	340100	SAP-101	072	371180	AM-60	074
280140	AFH-2,5/4,8	062	340110	SAP-101-N	072	376500	TPF-38/100	075
280150	AFH-2,5/6,3	062	340120	SAP-102	072	376100	TPF-2,4/1,2 N	075
280160	AFH-6/6,3	062	340130	SAP-102-N	072	376110	TPF-2,4/1,2 A	075
280170	AFH-6/9,5	062	340140	SAP-103	072	376120	TPF-2,4/1,2 G	075
285100	AP-1,5	062	340150	SAP-103-N	072	376130	TPF-2,4/1,2 M	075
285110	AP-2,5	062	345100	ST-0	072	376140	TPF-3,2/1,6 N	075
285120	AP-6	062	345110	ST-0-N	072	376150	TPF-3,2/1,6 A	075
285130	APL-1,5	062	345120	ST-1	072	376160	TPF-3,2/1,6 G	075
285140	APL-2,5	062	345130	ST-1-N	072	376170	TPF-3,2/1,6 M	075
290100	APP-1,5	062	345140	ST-2	072	376180	TPF-4,8/2,4 N	075
290110	APP-2,5	062	345150	ST-2-N	072	376190	TPF-4,8/2,4 A	075
290120	APP-6	062	350100	PST-0	073	376200	TPF-4,8/2,4 G	075
290130	APPL-1,5	062	350110	PST-1	073	376210	TPF-4,8/2,4 M	075
290140	APPL-2,5	062	355100	EC-8	073	376220	TPF-6,4/3,2 M	075
290150	APPL-6	062	355110	CD-8	073	376230	TPF-6,4/3,2 A	075
295100	AFM-1,5	063	355120	CD-10	073	376240	TPF-6,4/3,2 G	075
295110	AFM-2,5	063	355130	CD-12	073	376250	TPF-6,4/3,2 M	075
295120	AFM-6,0	063	355140	CD-14	073	376260	TPF-9,5/4,8 N	075
300100	AML-1,5	063	355150	CD-16	073	376270	TPF-9,5/4,8 A	075
300110	AML-2,5	063	361100	ES-1500	066	376280	TPF-9,5/4,8 G	075
300120	AML-6	063	361110	PS-1500	067	376290	TPF-9,5/4,8 M	075
305100	AFH/A-1,5	063	361120	CS-1500	067	376300	TPF-12,7/6,4 N	075
305110	AFH/A-2,5	063	361130	CA-1500	067	376310	TPF-12,7/6,4 A	075
305120	AFH/A-6	063	361140	RA-25	067	376320	TPF-12,7/6,4 G	075
305130	AFH/M-1,5	064	362100	GDPA-32R	070	376330	TPF-12,7/6,4 M	075
305140	AFH/M-2,5	064	362110	GDPA-40R	070	376340	TPF-19,1/9,5 N	075
305150	ACM-1,5	064	362120	GGA-18R	070	376350	TPF-19,1/9,5 A	075
305160	ACM-2,5	064	362130	GGA-24R	070	376360	TPF-19,9/5 G	075
305170	ACH-1,5	064	362140	GDPL-32R	070	376370	TPF-19,9/5 M	075
305180	ACH-2,5	064	362150	GDPL-40R	070	376380	TPF-25,4/12,7 N	075
315350	SKL-4	055	362160	GGL-18R	070	377100	TPMA-12/3	076
315360	SKL-6	055	362170	GGL-24R	070	377110	TPMA-22/6	076
315370	SKL-10	055	362180	GGL-30R	070	377120	TPMA-34/7	076
315380	SKL-16	055	362190	ORL-18R	070	377130	TPMA-40/12	076
315390	SKL-25	055	362200	ORL-20R	070	377140	TPMA-55/16	076
315400	SKL-35	055	362210	ORL-24R	070	377150	TPMA-75/22	076
315410	SKL-4N	055	362220	ORL-28R	070	377160	TPMA-95/25	076
315420	SKL-6N	055	366100	ARC-1	068	377170	TPMA-115/34	076
315430	SKL-10N	055	366110	ARC-2	068	377180	TPMA-140/42	076
315440	SKL-16N	055	366120	ARC-3	068	378100	MRA-4312/250	076
315450	SKL-25N	055	366130	ARC-25	068	378110	MRA-7218/250	076
315460	SKL-35N	055	366140	ARC-225	068	378120	MRA-7218/300	076
335100	BRB-80.24	071	366150	ARC-2250	068	378200	MRA-7218/500-E	076
335110	BRB-100.25	071	366160	ARC-35	068	406100	OPL	074
335120	BRB-140.25	071	366170	ARC-335	068	406110	OPC	074
335130	BRB-160.25	071	366180	ARC-3350	068	505030	SCF/D-2TL-1500V	088
335140	BRB-200.25	071	367100	BIP-120 CF	068	505040	SCF/D-3TL-1500V	088
335150	BRB-150.36	071	367110	BIP-180 CF	068	501010	SCF/C-1000V	088
335160	BRB-200.36	071	367120	BIP-120 CV	068	501020	SCF/C-1500V-A	088

Order Number Index

Code	Ref.	Page	Code	Ref.	Page	Code	Ref.	Page
501030	SCF/C-1500V-B	088	410047	PL4x100	138	441190	U13-K18	124
501040	SCF/FUSE-1500V	088	410048	PL5.5x125	138	441200	U13-K20	124
502070	SCF/D-2T-1500V	089	410049	PL8x175	138	441205	U13-K21	124
502080	SCF/D-3T-1500V	089	410050	PH0x60	138	441210	U13-K22	124
501050	SCF/OPT	089	410051	PH1x80	138	441220	U13-K25	124
501060	SCF/BB	089	410052	PH2x175	138	441230	U13-K28	124
10016100	RJ2A-120/16	030	410053	PH3x200	138	441250	U13-K32	124
10016101	RJ2A-120/25	030	410055	Set T shaped	142	441260	U13-K34	124
10016102	RJ2A-120/35	030	410056	Key T HEX - 4	142	447100	MK6-C	124
10016103	RJ2A-120/50	030	410057	Key T HEX - 5	142	447105	MK8-C	124
10016200	RJ4A-185/16	030	410058	Key T HEX - 6	142	447110	MK10-C	124
10016201	RJ4A-185/25	030	410059	Key T HEX - 8	142	447115	MK12-C	124
10016202	RJ4A-185/35	030	410060	Key T HEX - 9	142	447120	MK14-C	124
10016203	RJ4A-185/50	030	410061	Key T HEX - 10	142	447125	MK16-C	124
10016204	RJ4A-185/70	030	410065	Ratchet LC-3/8	142	447130	MK18-C	124
10016205	RJ4A-185/95	030	410073	L-shaped	142	447135	MK20-C	124
10016206	RJ4A-185/120	030	410074	L-shaped	142	447140	MK22-C	124
10016207	RJ4A-185/150	030	410075	3/8" ratchet	142	447145	MK25-C	124
10016208	RJ4A-240/16	030	410081	LAJ-250	140	447150	MK28-C	124
111118 K	TDC/S-50/8 K	040	410082	APL-250	140	447155	MK32-C	124
111119 K	TDC/S-50/10 K	040	410085	Set 3/8" sockets	143	447159	MK34-230	124
111120 K	TDC/S-50/12 K	040	410095	Set spanners	141	447160	MK38-230	124
111139 K	TDC/S-95/10 K	040	410096	Spanner LF-10	141	447162	MH23-40	124
111140 K	TDC/S-95/12 K	040	410097	Spanner F-13	141	447165	MK42-230	124
111159 K	TDC/S-150/10 K	040	410098	Spanner F-14	141	447170	MK44-230	124
111160 K	TDC/S-150/12 K	040	410099	Spanner F-16	141	447171	MK46B-230	124
111180 K	TDC/S-240/12 K	040	410100	Spanner F-17	141	446100	U13-S10	124
T101415	Earthing rod	077	410101	Spanner F-19	141	446110	U13-S16	124
T101420	Earthing rod	077	410105	Plier AC-230	139	446120	U13-S25	124
T101820	Earthing rod	077	410200	KBT-1000/19	138	446130	U13-S35	124
T301420	Earthing rod	077	410201	Spanner LF-8	141	446140	U13-S50	124
TGT142	Earthing rod clamp	078	410202	Spanner LF-11	141	446150	U13-S70	124
TGT142 RF	Earthing rod clamp	079	410203	Spanner LF-12	141	446160	U13-S95	124
TGT142C	Closed earthing rod	078	410210	KTS-1000/56	137	446170	U13-S120	124
			410220	KT-1000/37	134	446180	U13-S150	124
			410300	Llave en cruz	143	446190	U13-S185	124
			410301	Llave en cruz	143	446200	U13-S240	124
			410302	Llave en cruz	143	446210	U13-S300	124
			410303	Llave en cruz	143	446230	U13-PZ120	124
			410304	Llave en cruz	143	446231	U13-PZ240	124
			410305	Llave en cruz	143	446240	U13-PZ300	124
			410306	Llave en cruz	143	456100	95MCB	124
			410307	Llave en cruz	143	456110	150MCB	124
			410308	Llave en cruz	143	456120	240MCB	124
			411100	AP60-1	113	446280	400MC3S	124
			411102	AP130-H	115	456221	630MC3S	124
			411106	AP130-C	114	456130	95 MC1S	124
			411110	HPN-130-C3	108	456140	150MC1S	124
			411120	HPN-130-H3	109	456141	240MC1S	124
			411130	HPS-50	107	456150	PPR95	124
			411140	HS25	110	456160	PPR150	124
			411145	HS145	111	456170	PPR240	124
			411150	HS185	112	456180	PPR400	124
			411155	STILO-S	116	456190	PPR630	124
			411160	AS45	117	456200	95MC2S	124
			411165	AS85	118	456210	150MC2S	124
			416100	FPI-70S	123	456220	240MC2S	124
			416101	FPI-70S-EC	123	462080	U5-DC6	124
			421100	PP-130-C	120	462090	U5-DC10	124
			421110	PP-130-H	121	462100	U5-DC25	124
			421120	PP-230	122	462110	U5-DC35	124
			421190	PP-60-1	119	462120	U5-DC70	124
			437101	U5-K07	124	463090	U13-DC10	124
			437110	U5-K08	124	463100	U13-DC25	124
			437130	U5-K10	124	463110	U13-DC35	124
			437150	U5-K11	124	463120	U13-DC70	124
			437160	U5-K13	124	463140	U13-DC95	124
			437170	U5-K14	124	463170	U13-DC185	124
			437180	U5-K17	124	463180	U13-DA70	124
			437190	U5-K18	124	463190	U13-DA120	124
			437200	U5-K20	124	463200	U13-DA185	124
			437003	U5-K21	124	463210	U13-DC300AL	124
			437210	U5-K22	124	471100	AD13-C	124
			437220	U5-K25	124	471110	AD13-150	124
			441101	U13-K07	124	471120	AD13-240	124
			441110	U13-K08	124	471130	AD230-130	124
			441120	U13-K10	124	600160	BKE-1680D M bag	137
			441130	U13-K11	124	600161	MAF-430 case	134
			441150	U13-K13	124	600162	OHB-350 Briefcase	135
			441170	U13-K14	124	520100	SF-MC4	106
			441180	U13-K17	124			
Tools								
380105	SF-13	092						
380120	SF-21	093						
380122	SF-24	094						
380123	SF-25	094						
380130	SF-30	093						
380140	SF-31	093						
380150	SF-20	094						
380180	SF-50	092						
385100	SF-2N	097						
385120	SF-36	095						
385140	SF-7	097						
385150	SF-40	095						
385160	SF-12	097						
385170	SF-8	100						
385180	SF-41	100						
385185	SF-23	100						
385190	SF-17	098						
385200	SF-37	098						
385210	SF-18	099						
385220	SF-51	096						
385230	SF-52	096						
385240	SF-53	099						
390100	SF-6	102						
390110	SF-9	101						
390120	SF-10	103						
390125	SF-42	101						
390140	SF-35	103						
390150	SF-54	101						
390160	SF-56	102						
390170	SF-57	104						
395100	SF-5	105						
395110	SF-16	104						
395120	SF-58	105						
400100	SF-22	106						
400110	SF-38	106						
405100	SF-39	106						
410005	Plier AU-175	139						
410015	Plier PF-200	139						
410025	Plier AC-180	139						
410035	Knife CA-180	141						
410045	Set "Phillips"	138						
410046	PL3x100	138						

