

Cable lugs and tools Addition catalogue 2015/2016

Let's connect.

Connectivity and electrical installation



Cable lugs and tools

Addition catalogue 6a

Cable lugs and tools

Cable lugs and insulated connectors

Crimping tools

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Cable lugs and insulated connectors

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Cable lugs and insulated connector

Technical data / general information

Temperature resistance

Copper-cable lugs and -connectors without insulation	up to max. 120 °C (according to DIN 46 234)
Copper-cable lugs and -connectors with pa-insulation	-55 °C to +120 °C
Copper-cable lugs and -connectors with PC-insulation	-40 °C to +120 °C
Butt-connectors with shrink insulation	-10 °C to +105 °C
Terminals with PVC (polyvinyl chloride) insulation	-10 °C to +70 °C
Terminals with PC (polycarbonate=makrolon) insulation	-40 °C to +100 °C
Terminals with PA (polyamide)-insulation	-55 °C to +100 °C
Brass terminals, tin plated, without insulation	-55 °C to +100 °C

Conductor cross section comparison

comparable ISO-cross section in (mm ²)	AWG/ MCM	
	AWG	cross section (mm ²)
0.14	26	0.128
0.2	24	0.205
0.34	22	0.325
0.5	20	0.519
0.75	18	0.823
1	-	-
1.5	16	1.31
2.5	14	2.08
4	12	3.31
6	10	5.27
10	8	8.35
16	6	13.3
25	4	21.2
35	2	33.6
-	1	42.4
50	0	53.4
70	00	67.5
95	000	85.0
-	0000	107.2
120	250 MCM	127
150	300 MCM	152
185	350 MCM	177
240	500 MCM	253
300	600 MCM	304

Silicone and halogen concentration of insulated connecting material

The following chart shows the concentration of silicone and halogen of insulated connection material delivered by us:

Article description	free of silicone	free of halogen
Terminals, ring type	yes	yes
Terminals, fork type	yes	yes
Pin cable lugs	yes	yes
Joint connector	yes	yes
Parallel-connectors	yes	yes
Joint connector heat shrink insulation	yes	yes
Closed end connectors	yes	yes
Cable-lug sleeves and cable-lug sleeves PVC - insulated	yes	no
Cable-lug sleeves and cable-lug sleeves PC - insulated	yes	yes
Cable-lug sleeves tin-bronze PA - insulated	yes	yes
Cable-lug sleeves , fully insulated	yes	yes
Piggy back disconnectors PVC - insulated	yes	no
Piggy back disconnectors PC - insulated	yes	yes
Flag female disconnectors	yes	yes
Round-plug sleeves PVC - insulated	yes	no
Circular plug PVC - insulated	yes	no
Circular plug PC - insulated	yes	yes
Round-plug sleeves and circular plug, fully insulated	yes	yes

Colour of insulation

cross section mm ²	colour
0.1 - 0.5	yellow
0.5 - 1	red
1.5 - 2.5	blue
4 - 6	yellow
10	red
16	blue
25	yellow
35	red
50	blue
70	yellow
95	red
120	blue
150	yellow

Electrical characteristics

Maximum allowable current load of cable lugs and connectors
in conjunction with insulated conductors (at ambient temperature +30 °C)

nominal cross section (mm²)	Single cor cable - rubber insulated - PVC insulated - TPE insulated - heat resistant	Multicore cables + cords, excl. home- and portable apparatus - rubber insulated - PVC insulated - TPE insulated - heat resistant	Multicore heavy duty rubber cables min. 0.6 / 1kV
	Cu (A)	Cu (A)	Cu (A)
0.75	15	12	-
1	19	15	-
1.5	24	18	23
2.5	32	26	30
4	42	34	41
6	54	44	53
10	73	61	74
16	98	82	99
25	129	108	131
35	158	135	162
50	198	168	202
70	245	207	250
95	292	250	301
120	344	292	-
150	391	335	-
185	448	382	-
240	528	453	-
300	608	523	-
sources of current ratings:	DIN VDE 0298-4, 2003-08 Table 11, colonne 2	DIN VDE 0298-4, 2003-08 Table 11, colonne 5	DIN VDE 0298-4, 2003-08 Table 15, colonne 4+2

Note:

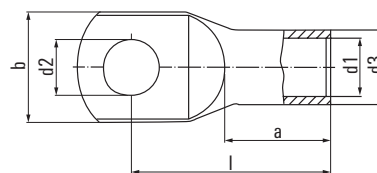
Design of these tables deviates from VDE 0298-4 design.
In case of doubt, appliance of the current issue of the DIN VDE 0298-4 is obligatory.

Above Table values have to be taken into consideration of further applicable converting / derating factors:

- other ambient temperatures: DIN VDE 0298-4
- pay attention to the maximum electric current of the used equipment
- pay attention to the maximum current load of the used cable under consideration of the laying procedure

Tubular cable lugs and connectors, copper euro-series

A



Tubular cable lugs 0.5 - 25 mm², euro-series

Technical data

Material: Cu according to DIN EN 13600
Surface: tin plated
Approvals:

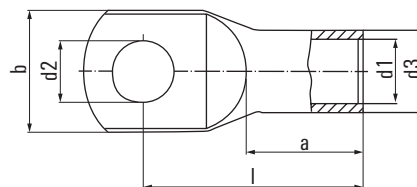


Ordering data

Cross-section mm ²	flat hole M	d1	d3	dimensions in mm d2	b	l	a	Qty. (pcs.)	Order No.	Tool recommendation
0.5 - 0.75	3	1.4	3	3.2	6.5	12.5	6	100	1495010000*	HTN 21
	4			4.3	8.5	14		100	1495020000*	
	5			5.3	10	15		100	1495030000*	
1.0 - 1.5	3	1.9	3.9	3.2	6.5	14	6	100	1495040000*	
	4			4.3	8.5	15		100	1495050000*	
	5			5.3	10	16		100	1495070000*	
	6			6.4	11	18		100	1495080000*	
2.5	4	2.4	4.4	4.3	8.5	15	6.5	100	1495090000*	
	5			5.3	10	16		100	1495100000*	
	6			6.4	11	18		100	1495110000*	
	8			8.4	13	20		100	1495120000*	
4	4	3	5	4.3	8.5	17	8	100	1495130000*	
	5			5.3	10	18		100	1495140000*	
	6			6.4	11	20		100	1495150000*	
	8			8.4	14	22		100	1495170000*	
6	4	3.5	6.5	4.3	10	19	9	100	1497150000	PZ RK 6/70
	5			5.3	10	20		100	1497170000	
	6			6.4	11	21.5		100	1497180000	
	8			8.4	15	24		100	1497190000	
	10			10.5	18	26		100	1497200000	
	12			13	19	27.5		100	1497210000	
10	4	4.5	7	4.3	12	20	10	100	1496900000	
	5			5.3	12	21		100	1496910000	
	6			6.4	12	22.5		100	1496920000	
	8			8.4	15	25		100	1496930000	
	10			10.5	18	27		100	1496940000	
	12			13	20	28.5		100	1496950000	
16	5	5.5	8.5	5.3	12	25		100	1496970000	PZ RK 10/120
	6			6.4	12	26.5		100	1496980000	
	8			8.4	15	29		100	1496990000	
	10			10.5	18	31		100	1497000000	
	12			13	19	32		100	1497010000	
25	5	7	10	5.3	15	33.5	15	100	1495830000	
	6			6.4	15	31.5		100	1496490000	
	8			8.4	16	33		100	1496500000	
	10			10.5	18	34.5		100	1496510000	
	12			13	20	36		100	1496520000	
	14			15	22	39		100	1496530000	

* UL not tested

Tubular cable lugs, copper, euro-series



Tubular cable lugs 35 – 300 mm², euro-series

Technical data

Material: Cu according to DIN EN 13600
Surface: tin plated
Approvals:



Ordering data

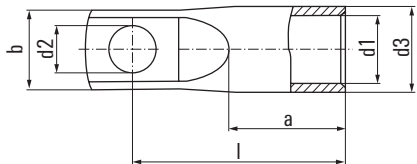
Cross section mm ²	flat hole M	d1	d3	dimensions in mm d2	b	l	a	weight 100 pcs./kg	Qty (pcs.)	Order No.	Tool recommendation
35	6	8.5	12	6.4	17	33	17	2.07	100	1496540000	PZ PK 10/120 + PZ RK 10/120 EPG 45 APG 80 + HPG 80, EPG 45 APG 55 + HPG 55
	8			8.4	17	34		2.18	100	1496550000	
	10			10.5	20	36.5		2.19	100	1496570000	
	12			13	22	37.5		2.33	100	1496580000	
50	6	10	14	6.4	20	37	19	3.01	100	1496590000	
	8			8.4	20	39		3.04	100	1496600000	
	10			10.5	20	40.5		3.13	100	1496610000	
	12			13	23	42		3.13	100	1496620000	
	14			15	23	44		3.51	100	1495750000	
	16			17	27	46		3.55	100	1496630000	
	20			21	30.5	52.5		3.89	100	1495840000	
70	6	12	16.5	6.4	24	40.5	21	4.11	25	1496640000	
	8			8.4	24	42.5		4.46	25	1496650000	
	10			10.5	24	43.5		4.64	25	1496670000	
	12			13	24	45		4.73	25	1495570000	
	14			15	25	46		4.91	25	1495770000	
	16			17	28	48.5		4.96	25	1495580000	
	20			21	29	52		5.29	25	1495590000	
95	6	13.5	18	6.4	26	43	23	4.95	25	1495820000	
	8			8.4	26	46		5.36	25	1495600000	
	10			10.5	26	47		5.51	25	1495610000	
	12			13	26	48		5.51	25	1495620000	
	14			15	26	51.5		5.89	25	1495780000	
	16			17	28	51		5.85	25	1495630000	
	20			21	30	55		6.13	25	1495640000	
120	8	15	20	8.4	29	49.5	26	6.88	25	1495790000	
	10			10.5	29	52		7.99	25	1495650000	
	12			13	29	51.5		7.84	25	1495670000	
	14			15	30	53		7.86	25	1495800000	
	16			17	30	55		8.07	25	1495680000	
	20			21	35	60		8.90	25	1495690000	
150	8	16.8	21.3	8.4	31	55.5	29	7.89	25	1495700000	
	10			10.5	31	56.5		8.37	25	1495710000	
	12			13	31	56		8.07	25	1495720000	
	14			15	31	57		8.30	25	1495810000	
	16			17	31	58		8.36	25	1495730000	
	20			21	35	63		8.75	25	1495740000	
185	8	19	24	8.4	35	58	30	10.37	25	1497290000*	
	10			10.5	35	59		10.61	25	1495430000	
	12			13	35	58.5		10.60	25	1495440000	
	14			15	35	61		10.72	25	1497250000	
	16			17	35	63		10.86	25	1495450000	
	20			21	35	66		11.33	25	1495470000	
240	8	21	26	8.4	38	67	35	12.40	25	1495480000*	
	10			10.5	38	67		12.97	25	1495490000	
	12			13	38	67		13.02	25	1495500000	
	14			15	38	69		13.36	25	1497270000	
	16			17	38	69.5		13.56	25	1495510000	
	20			21	38	71		13.80	25	1495520000	
300	10	24	30	10.5	44	79.5	42	20.45	20	1495530000*	
	12			13	44	82		21.18	20	1495540000	
	14			15	44	84		22.19	20	1497280000	
	16			17	44	85		21.94	20	1495550000	
	20			21	44	85		22.40	20	1497240000	

* UL not tested

Tubular cable lugs 35 – 300 mm²,
euro-series, with narrow flange

Technical data

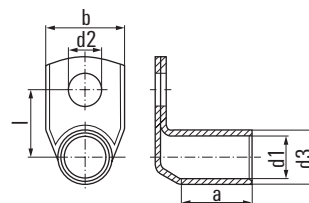
Material: Cu according to DIN EN 13600
Surface: tin plated
Approvals:



Ordering data

Cross section mm ²	flat hole M	dimensions in mm						weight 100 pcs./kg	Qty. (pcs.)	Order No.	Tool recommendation			
		d1	d3	d2	b	l	a				PZ PK 10/120 + PZ RK 10/120	EPG 45	APG 55 + HPG 55	APG 80 + HPG 80, EPG 45
35	6	8.5	12	6.4	15	33	17	1.93	25	1494790000	PZ PK 6/70 + PZ RK 6/70	EPG 45	APG 55 + HPG 55	APG 80 + HPG 80, EPG 45
	8			8.4	15	35		1.90	25	1494810000*				
50	6	10	14	6.4	15	37	19	2.69	25	1494820000				
	8			8.4	17	39		2.79	25	1494830000				
	10			10.5	17	41		2.99	25	1494840000				
70	6	11.8	16.5	6.4	17	41	21	3.99	25	1494850000				
	8			8.4	17	43		4.38	25	1494860000				
	10			10.5	17	45		4.40	25	1494870000				
	12			13	19	46		4.48	25	1494880000				
95	6	13.5	18	6.4	19	43	23	4.67	25	1494430000				
	8			8.4	19	45		4.90	25	1494890000				
	10			10.5	19	47		5.10	25	1494900000				
	12			13	19	48		5.20	25	1494910000				
120	6	14.7	20	6.4	20	49	26	6.43	10	1494410000				
	8			8.4	20	51		7.12	10	1494420000				
	10			10.5	20	53		6.70	10	1494920000				
	12			13	20	54		7.12	10	1494930000				
150	6	16.3	21.3	6.4	19	53	29	7.01	10	1494440000				
	8			8.4	19	55		7.31	10	1494940000				
	10			10.5	19	56		7.63	10	1494950000				
	12			13	22	59		7.63	10	1494970000				
185	10	18.7	24	10.5	26	60	30	10.47	10	1494980000				
	12			13	26	59.5		10.27	10	1494990000				
	16			17	26	64		10.81	10	1495000000				
240	10	21	26	10.5	30	65	35	12.80	5	1494340000				
	12			13	30	65		11.71	5	1494350000				
	16			17	30	68		12.11	5	1494370000				
300	10	23.5	30	10.5	30	76	42	19.66	5	1494380000*				
	12			13	30	79		20.08	5	1494390000*				
	16			17	30	81		20.60	5	1494400000*				
* UL not tested														

Tubular cable lugs with angle, copper, euro-series



Tubular cable lugs with 90° angle, 0.5 – 35 mm², euro-series

Technical data

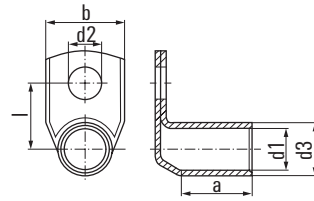
Material: Cu according to DIN EN 13600
Surface: tin plated
Approvals:



Ordering data

Cross-section mm²	flat hole M	d1	d3	d2	b	l	a	weight 100 pcs./kg	Qty. (pcs.)	Order No.	Tool recommendation
0.5 – 0.75	3	1.4	3	3.2	6.5	7.5	5	0.09	100	1495180000*	HTN 21
	4			4.3	8.5	8.5		0.10	100	1495190000*	
	5			5.3	10	9.5		0.10	100	1495200000*	
1.0 – 1.5	3	1.9	3.9	3.2	6.5	8	5	0.16	100	1495210000*	
	4			4.3	8.5	9		0.16	100	1495220000*	
	5			5.3	10	10		0.16	100	1495230000*	
	6			6.4	11	12		0.15	100	1495240000*	
2.5	4	2.4	4.4	4.3	8.5	9.2	5.5	0.18	100	1495250000*	
	5			5.3	10	10.2		0.18	100	1495270000*	
	6			6.4	11	12.2		0.22	100	1495280000*	
	8			8.4	14	14.2		0.23	100	1495290000*	
4	4	3	5	4.3	8.5	9.5	7	0.25	100	1495300000*	
	5			5.3	10	10.5		0.24	100	1495310000*	
	6			6.4	11	12.5		0.29	100	1495320000*	
	8			8.4	14	14.5		0.30	100	1495330000*	
6	4	3.5	6.5	4.3	10	10.3	8	0.52	100	1497220000	PZ RK 6/70
	5			5.3	11	11.2		0.56	100	1496120000	
	6			6.4	11	13.3		0.62	100	1496130000	
	8			8.4	15	15.3		0.64	100	1496140000	
	10			10.5	18	17.2		0.68	100	1496150000	
10	12			13	20	18.2		0.66	100	1496170000	
	5	4.5	7	5.3	12	11.5	9	0.54	100	1497020000	PZ RK 10/120
	6			6.4	12	12.5		0.59	100	1497030000	
	8			8.4	15	15.5		0.67	100	1497040000	
	10			10.5	18	17.5		0.70	100	1497050000	
	12			13	20	18.5		0.70	100	1497070000	
16	5	5.5	8.5	5.3	12	13	12	1.07	100	1497080000	
	6			6.4	12	14.3		1.15	100	1497090000	
	8			8.4	15	16.3		1.20	100	1497100000	
	10			10.5	18	18.3		1.23	100	1497110000	
	12			13	20	19.3		1.23	100	1497120000	
25	6	7	10	6.4	15	15.5	14	1.35	100	1495850000	
	8			8.4	16	17.5		1.43	100	1495870000	
	10			10.5	18	19.5		1.57	100	1495880000	
	12			13	20	20.5		1.51	100	1495890000	
	14			15	22	22.5		1.69	100	1495900000	
35	6	8.5	12	6.4	17	16.5	16	2.10	100	1495910000	
	8			8.4	17	18.5		2.31	100	1495920000	
	10			10.5	20	20.5		2.36	100	1495930000	
	12			13	22	21.5		2.37	100	1495940000	
	14			15	23	23.5		2.48	100	1494640000	
16				17	28	24.5		2.48	100	1494690000	

* UL not tested



Tubular cable lugs with 90° angle, 50 – 300 mm², euro-series

Technical data

Material: Cu according to DIN EN 13600
Surface: tin plated
Approvals:

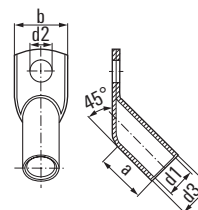


Ordering data

Cross-section mm ²	flat hole M	d1	d3	d2	b	l	a	weight 100 pcs./kg	Qty. (pcs.)	Order No.	Tool recommendation		
50	6	10	14	6.4	20	17.5	18	3.00	100	1495950000	PZ PK 6/70 + PZ RK 6/70	EPG 45	APG 80 + HPG 80, EPG 45 APG 55 + HPG 55
	8			8.4	20	19.5		3.22	100	1495970000			
	10			10.5	20	21.5		3.32	100	1495980000			
	12			13	23	22.5		3.28	100	1495990000			
	14			15	23	24.5		3.37	100	1494650000			
	16			17	27	28.5		3.63	100	1496000000			
	20			21	30	32.5		3.89	100	1494710000			
70	6	12	16.5	6.4	24	18.8	20	4.41	25	1496010000			
	8			8.4	24	20.8		4.86	25	1496020000			
	10			10.5	24	22.8		5.06	25	1496030000			
	12			13	24	23.8		4.94	25	1496040000			
	14			15	25	25.8		5.19	25	1494660000			
	16			17	28	26.8		5.11	25	1496050000			
95	8	13.5	18	8.4	26	21.5	22	5.33	25	1496080000			
	10			10.5	26	23.5		5.59	25	1496090000			
	12			13	26	24.5		5.66	25	1496100000			
	14			15	26	26.5		5.89	25	1494670000			
	16			17	28	27.5		6.00	25	1496110000			
120	8	15	20	8.4	29	22.5	25	7.63	25	1494680000			
	10			10.5	29	24.5		8.07	25	1494450000			
	12			13	29	25.5		7.99	25	1494470000			
	16			17	30	28.5		8.46	25	1494480000			
150	8	16.8	21.3	8.4	31	25.7	28	8.03	25	1494490000			
	10			10.5	31	25.7		8.07	25	1494500000			
	12			13	31	26.7		8.29	25	1494510000			
	16			17	31	29.7		8.50	25	1494520000			
	20			21	35	33.7		8.89	25	1494530000			
185	10	19	24	10.5	35	27	29	11.41	25	1494540000			
	12			13	35	28		12.04	25	1494550000			
	16			17	35	31		12.48	25	1494570000			
	20			21	35	35		12.70	25	1494580000			
240	10	21	26	10.5	38	28	34	13.32	25	1494590000			
	12			13	38	29		13.40	25	1494610000			
	16			17	38	32		13.76	25	1494620000			
	20			21	38	36		14.23	25	1494630000			
300	12	24	30	13	43	31	41	19.92	20	1497300000			
	16			17	43	34		20.90	20	1497310000			
	20			21	43	38		21.81	20	1497320000			

* UL not tested

Tubular cable lugs with angle, copper, euro-series

Tubular cable lugs with 45° angle,
10 – 240 mm², euro-series

Technical data

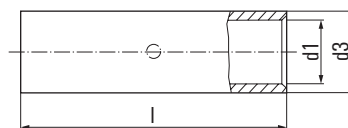
Material: Cu according to DIN EN 13600
Surface: tin plated
Approvals:



Ordering data

Cross-section mm ²	flat hole M	dimensions in mm					weight 100 pcs./kg	Qty. (pcs.)	Order No.	Tool recommendation	
10	5	4.5	7	5.3	12	9	0.55	100	1496810000	PZ PK 6/70 + PZ RK 10/120, MTR 110	EPG 45
	6			6.4	12		0.58	100	1496820000		
	8			8.4	15		0.65	100	1496830000		
	10			10.5	18		0.66	100	1496840000*		
16	5	5.5	8.5	5.3	12	12	0.95	100	1496850000		
	6			6.4	12		1.02	100	1496870000		
	8			8.4	15		1.17	100	1496880000		
	10			10.5	18		1.17	100	1496890000		
25	6	7	10	6.4	15	14	1.39	100	1496180000		
	8			8.4	16		1.51	100	1496190000		
	10			10.5	18		1.66	100	1496200000		
	12			13	20		1.70	100	1496210000		
35	6	8.5	12	6.4	17	16	2.17	50	1496220000		
	8			8.4	17		2.23	50	1496230000		
	10			10.5	20		2.34	50	1496240000		
	12			13	22		2.40	50	1496250000		
50	6	10	14	6.4	20	18	2.94	50	1496270000*		
	8			8.4	20		3.34	50	1496280000		
	10			10.5	20		3.65	50	1496290000		
	12			13	23		3.65	50	1496300000		
70	8	12	16.5	8.4	24	20	4.90	25	1496310000		
	10			10.5	24		5.23	25	1496320000		
	12			13	24		5.34	25	1496330000		
95	8	13.5	18	8.4	26	22	6.18	25	1496340000		
	10			10.5	26		6.20	25	1496350000		
	12			13	26		6.20	25	1496370000		
	16			17	28		6.80	25	1496380000*		
120	8	15	20	8.4	29	25	7.80	25	1496390000		
	10			10.5	29		8.90	25	1496400000		
	12			13	29		8.91	25	1496410000		
	16			17	30		9.31	25	1496420000		
150	8	16.8	21.3	8.4	31	28	11.31	25	1496430000*		
	10			10.5	31		9.80	25	1496440000		
	12			13	31		9.68	25	1496450000		
	16			17	31		10.12	25	1496470000		
	20			21	35		10.12	25	1496480000*		
185	10	19	24	10.5	35	29	12.35	20	1495340000		
	12			13	35		12.24	20	1495350000		
	16			17	35		12.84	20	1495370000		
	20			21	35		13.99	20	1495380000		
240	12	21	26	13	38	34	15.46	15	1495400000		
	16			17	38		16.51	15	1495410000		
	20			21	38		17.04	15	1495420000		

* UL not tested

Joint connector 0.5 – 240 mm²

euro-series

Technical data

Material:	Cu according to DIN EN 13600
Surface:	tin plated
Type:	with wirestop

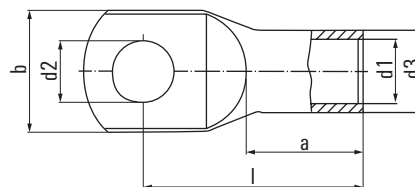
Ordering data

Cross-section mm ²	dimensions in mm			weight 100 pcs./kg	Qty. (pcs.)	Order No.	Tool recommendation			
d1	d3	l								
0.5 – 0.75	1.4	3	15	0.08	100	1497330000	HTN 21	EPG 45	PZ PK 6/70 + PZ RK 6/70	MTR 110
1.0 – 1.5	1.9	3.9	15	0.12	100	1497340000				
2.5	2.4	4.4	16	0.15	100	1497350000				
4	3	5	19	0.21	100	1497370000				
6	3.5	6.5	25	0.51	100	1494720000				
10	4.5	7	30	0.60	50	1497130000	MTR 160 + MTR 300	APG 55 + HPG 55, APG 80 + HPG 80	PZ PK 10/120 + PZ RK 10/120	
16	5.5	8.5	35	1.00	50	1497140000				
25	7	10	40	1.41	50	1494730000				
35	8.5	12	45	2.16	50	1494740000				
50	10	14	50	3.32	50	1494750000				
70	12	16.5	55	4.91	50	1494760000				
95	13.5	18	60	6.09	50	1494770000				
120	15	20	65	7.88	25	1494780000				
150	16.8	21.3	70	8.68	25	1497380000				
185	19	24	75	11.63	25	1497390000				
240	21	26	85	14.22	25	1497400000				

Crimp cable lugs, copper DIN 46235

A





Crimp cable lugs, copper 6 – 95 mm², DIN 46235

Technical data

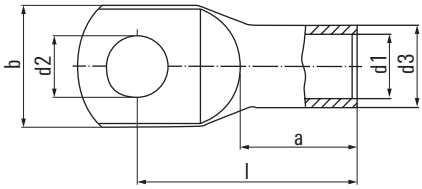
Material: Cu according to DIN EN 13600
Surface: tin plated

Ordering data

Cross-section mm ²	flat hole M	die code	d1	d3	d2	b	l	a	weight 100 pcs./kg	Qty. (pcs.)	Order No.	Tool recommendation
6	5	5	3.7	5.5	5.3	8.5	24	10	0.31	100	1497840000	PZ PK 6/70
	6				6.4	9	24		0.34	100	1497850000	
	8*				8.4	13	26		0.35	100	1497860000	
10	5	6	4.4	6	5.3	10	27	10	0.35	100	1497870000	CTN 25 D5
	6				6.4	10	27		0.37	100	1497880000	
	8*				8.4	13	28		0.38	100	1497890000	
	10*				10.5	15	29		0.38	100	1497910000	
16	5*	8	5.5	8.5	5.3	13	36	20	1.22	100	1497920000	PZ PK 10/120
	6				6.4	13	36		1.27	100	1497930000	
	8				8.4	13	37		1.30	100	1497940000	
	10				10.5	16.5	38		1.32	100	1497950000	
	12*				13	19	40		1.35	100	1497960000	
25	6	10	7	10	6.4	14	39	20	1.62	100	1497970000	
	8				8.4	17	39		1.73	100	1497980000	
	10				10.5	17	40.5		1.77	100	1497990000	
	12				13	18	40.5		1.72	100	1498000000	
	16*				17	22	45		1.99	100	1498010000	
35	6*	12	8.2	12.5	6.4	17.5	42.5	20	3.12	100	1498020000	
	8				8.4	18	42		3.19	100	1498030000	
	10				10.5	20	42.5		3.17	100	1498040000	
	12				13	21	44		3.11	100	1498050000	
	16*				17	28	47		3.14	100	1498060000	
50	6*	14	9.8	14.5	6.4	20	52	28	4.67	100	1498510000	
	8				8.4	20	52		5.00	100	1498070000	
	10				10.5	22	52		4.94	100	1498080000	
	12				13	23	52		4.91	100	1498090000	
	14*				15	26	53.5		4.94	100	1498570000	
	16				17	28	55.5		5.04	100	1498110000	
	20*				21	30	61.5		5.56	100	1498120000	
70	8	16	11.3	16.5	8.4	24	56	28	6.54	50	1498130000	
	10				10.5	24	56		6.54	50	1498140000	
	12				13	24	56.5		6.57	50	1498150000	
	14*				15	24	55.5		6.00	50	1498560000	
	16				17	29	57		6.92	50	1498160000	
	20*				21	31	61		6.99	50	1498170000	
95	8*	18	13.5	19	8.4	28	65	35	9.36	50	1498180000	
	10				10.5	28	65.5		9.55	50	1498190000	
	12				13	28	65.5		9.45	50	1498210000	
	14*				15	28	65.5		9.43	50	1498520000	
	16				17	30	65.5		9.44	50	1498220000	
	20*				21	33	71		9.86	50	1498230000	

* not standardized, tube measurements in accordance with DIN 46235

Crimp cable lugs, copper, DIN 46235



Crimp cable lugs, copper,
120 – 300 mm², DIN 46235

Technical data

Material: Cu according to DIN EN 13600
Surface: tin plated

Ordering data

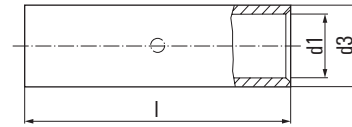
Cross-section mm ²	flat hole M	die code	d1	d3	d2	b	l	a	weight 100 pcs./kg	Qty. (pcs.)	Order No.	Tool recommendation	
120	8*	20	15.5	21	8.4	31	70	35	11.35	50	1498480000	PZ PK 10/120	EPG 45
	10				10.5	31	70		11.40	50	1498240000		
	12				13	31	70.5		11.43	50	1498250000		
	14*				15	31	70		11.41	50	1498490000		
	16				17	31.5	70		11.36	50	1498270000		
	20				21	36	72		11.51	50	1498280000		
150	8*	22	17	23.5	8.4	34	79	35	16.40	25	1498290000		APG 80 + HPG 80
	10				10.5	34	79		16.46	25	1498310000		
	12				13	34	78.5		16.53	25	1498320000		
	14*				15	34	78		16.49	25	1498580000		
	16				17	34	78		16.35	25	1498330000		
	20				21	38	78		16.34	25	1498340000		
185	8*	25	19	25.5	8.4	37	83	40	18.50	25	1498540000		APG 55 + HPG 55
	10				10.5	37	83		18.50	25	1498350000		
	12				13	37	82.5		18.95	25	1498360000		
	14*				15	37	82		18.96	25	1498590000		
	16				17	37	82		19.41	25	1498370000		
	20				21	40	83		19.01	25	1498380000		
240	10*	28	21.5	29	10.5	42	92	40	27.10	20	1498390000		
	12				13	42.5	92		26.65	20	1498410000		
	14*				15	42.5	92		26.73	20	1498530000		
	16				17	42.5	92		27.45	20	1498420000		
	20				21	45	92		27.67	20	1498430000		
300	10*	32	24.5	32	10.5	48.5	104	50	34.80	10	1498440000		
	12*				13	48.5	104		34.50	10	1498450000		
	14*				15	48.5	104		34.60	10	1498550000		
	16				17	48.5	100		34.16	10	1498460000		
	20				21	48.5	100		34.46	10	1498470000		

* not standardized, tube measurements in accordance with DIN 46235

Tubular compression connectors
6 – 300 mm², DIN 46267 part 1,
strain relieved

Technical data

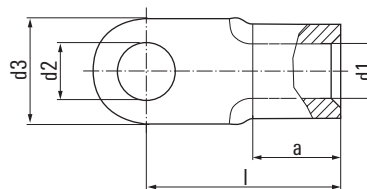
Material: Cu according to DIN EN 13600
 Surface: tin plated

**Ordering data**

Cross-section mm²	die code	dimensions in mm			weight 100 pcs./kg	Qty. (pcs.)	Order No.	Tool recommendation					
		d1	d3	l									
6	5	3.7	5.5	30	0.35	100	1498610000	PZ PK 6/70	CTN 25 D5	PZ PK 10/120	EPG 45	APG 55 + HPG 55	APG 80 + HPG 80
10	6	4.4	6	30	0.35	100	1498620000						
16	8	5.5	8.5	50	1.51	100	1498630000						
25	10	7	10	50	1.86	100	1498640000						
35	12	8.2	12.5	50	3.20	100	1498650000						
50	14	9.8	14.5	56	4.64	50	1498660000						
70	16	11.3	16.5	56	5.64	50	1498670000						
95	18	13.5	19	70	8.98	50	1498680000						
120	20	15.5	21	70	10.27	25	1498690000						
150	22	17	23.5	80	14.96	25	1498710000						
185	25	19	25.5	85	16.78	25	1498720000						
240	28	21.5	29	90	23.20	15	1498730000						
300	32	24.5	32	100	30.52	10	1498740000						

Terminals noninsulated

A



Terminals 0.1 – 6 mm², DIN 46234

Technical data

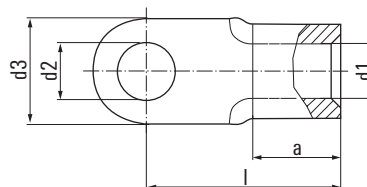
Material:	Cu-HCP
Surface:	tin plated
	S = small palm

Ordering data

Cross-section mm ²	flat hole M	d1	dimensions in mm				weight 100 pcs./kg	Qty. (pcs.)	Order No.	Tool recommendation	
0.1 – 0.5	2	1	2.2	5	10	4	0.02	100	1493670000	HTN 21	
	3		3.2	5	10		0.02	100	1493680000		
	4		4.3	6.5	12		0.03	100	1493690000		
	5		5.3	8	11		0.03	100	1493700000		
0.5 – 1	2*	1.6	2.2	6	11	5	0.06	100	1493720000		
	2.5		2.7	6	11		0.06	100	1493730000		
	3		3.2	6	11		0.06	100	1493740000		
	3.5		3.7	6	11		0.06	100	1493750000		
	4/S*		4.3	7	11		0.06	100	1493760000		
	4		4.3	8	12		0.07	100	1493770000		
	5/S*		5.3	8	12		0.06	100	1493780000		
	5		5.3	10	13		0.08	100	1493790000		
	6*		6.5	10	13		0.07	100	1493800000		
	8*		8.4	12	17		0.10	100	1493810000		
	10*		10.5	14	17		0.10	100	1493710000		
1.5 – 2.5	3	2.3	3.2	6	11	5	0.07	100	1493820000	EPG 45	APG 80 + HPG 80 APG 55 + HPG 55
	3.5		3.7	6	11		0.06	100	1493830000		
	4/S*		4.3	6.8	11		0.06	100	1493840000		
	4		4.3	8	12		0.08	100	1493850000		
	5/S*		5.3	8	12		0.07	100	1493870000		
	5		5.3	10	14		0.10	100	1493890000		
	6		6.5	11	16		0.11	100	1493900000		
	8		8.4	14	17		0.14	100	1493910000		
	10*		10.5	18	20		0.19	100	1493930000		
4 – 6	12*		13	18	20		0.16	100	1493940000		
	4	3.6	4.3	8	14	6	0.14	100	1493950000		
	5		5.3	10	15		0.16	100	1493960000		
	6		6.5	11	16		0.17	100	1493970000		
	8		8.4	14	19		0.21	100	1493980000		
	10		10.5	18	21		0.27	100	1493990000		
	12*		13	18	21		0.23	100	1494000000		

* not standardized, dimensions similar to DIN 46234

Terminals ring and fork-type, noninsulated



Terminals 10 - 240 mm², DIN 46234

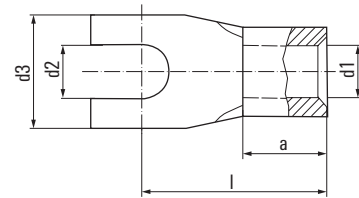
Technical data

Material: Cu-HCP
Surface: tin plated

Ordering data

Cross-section mm ²	flat hole M	d1	d2	d3	l	a	weight 100 pcs./kg	Qty. (pcs.)	Order No.	Tool recommendation
10	4*	4.5	4.3	10	16	8	0.23	100	1494010000	CTN 25 DA EPG 45 APG 55 + HPG 55 APG 80 + HPG 80
	5		5.3	10	16		0.22	100	1494020000	
	6		6.5	11	17		0.24	100	1494030000	
	8		8.4	14	20		0.29	100	1494040000	
	10		10.5	18	21		0.35	100	1494050000	
	12		13	22	23		0.41	100	1494060000	
16	5	5.8	5.3	11	20	10	0.40	100	1494070000	
	6		6.5	11	20		0.38	100	1494080000	
	8		8.4	14	22		0.42	100	1494090000	
	10		10.5	18	24		0.50	100	1494100000	
	12		13	22	26		0.58	100	1494110000	
25	5	7.5	5.3	12	25	11	0.70	50	1494120000	
	6		6.5	12	25		0.71	50	1494130000	
	8		8.4	16	25		0.76	50	1494140000	
	10		10.5	18	26		0.78	50	1494150000	
	12		13	22	31		0.97	50	1494160000	
	16		17	28	35		1.20	50	1493490000	
35	6	9	6.5	15	26	12	0.97	50	1494170000	
	8		8.4	16	26		0.96	50	1494180000	
	10		10.5	18	27		1.00	50	1494190000	
	12		13	22	31		1.17	50	1493130000	
	16		17	28	36		1.41	50	1493140000	
	20*		21	30	37.5	14	1.67	50	1493520000	
50	6	11	6.5	18	34	16	1.75	50	1493510000	
	8		8.4	18	34		1.72	50	1493150000	
	10		10.5	18	34		1.66	50	1493160000	
	12		13	22	36		1.80	50	1493170000	
	16		17	28	40		2.11	50	1493180000	
	20*		21	32	41.2	18	2.57	50	1493530000	
70	6	13	6.5	22	38	18	2.66	50	1493190000	
	8		8.4	22	38		2.34	50	1493210000	
	10		10.5	22	38		2.58	50	1493220000	
	12		13	22	38		2.49	50	1493230000	
	16		17	28	42		2.77	50	1493240000	
	20*		21	32	45	19	3.06	50	1493250000	
95	8	15	8.4	24	42	20	4.24	25	1493260000	
	10		10.5	24	42		4.17	25	1493270000	
	12		13	24	42		3.92	25	1493280000	
	16		17	28	44		3.94	25	1493290000	
	20*		21	32	51.8		4.25	25	1493310000	
120	8	16.5	8.4	24	44	22	5.77	25	1493320000	
	10		10.5	24	44		5.67	25	1493330000	
	12		13	24	44		5.42	25	1493340000	
	16		17	28	48		6.21	25	1493350000	
	20*		21	32	53	21	5.81	25	1493360000	
150	10	19	10.5	30	50	24	8.29	25	1493370000	
	12		13	30	50		8.31	25	1493380000	
	16		17	30	50		8.01	25	1493390000	
	20*		21	36	63	27	7.35	25	1493410000	
185	10	21	10.5	36	50	28	11.16	25	1493420000	
	12		13	36	50		10.78	25	1493430000	
	16		17	36	50		10.61	25	1493440000	
	20*		21	36	50		10.17	25	1493450000	
240	10	23.5	10.5	38	56	32	15.01	25	1493460000	
	12		13	38	56		14.98	25	1493470000	
	16		17	38	56		14.53	25	1493480000	

* not standardized



Terminals fork-type 0,5 – 16 mm²

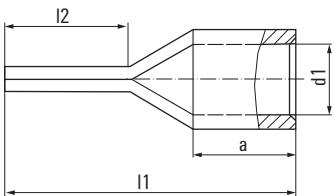
Technical data

Material:	Cu-HCP (0,5 – 10 mm ²) Cu-ETP (16 mm ²)
Surface:	tin plated S = small palm

Ordering data

Cross-section mm ²	flat hole M	d1	d2	d3	l	a	weight 100 pcs./kg	Qty. (pcs.)	Order No.	Tool recommendation		
0.5 – 1	C 3	1.6	3.2	6	11	5	0.06	100	1493540000	HTN 21		
	C 3.5		3.7	6	11		0.05	100	1493550000			
	C 4/S		4.3	7	12		0.06	100	1493560000			
	C 4		4.3	8	12		0.07	100	1493570000			
	C 5		5.3	10	13		0.08	100	1493580000			
	C 6		6.5	12	17		0.09	100	1493590000			
1.5 – 2.5	C 3	2.3	3.2	6	11	5	0.06	100	1493600000			
	C 3.5		3.7	6.8	11		0.07	100	1493610000			
	C 4/S		4.3	6.8	11		0.06	100	1493620000			
	C 4		4.3	8	12		0.08	100	1493630000			
	C 5		5.3	10	14		0.10	100	1493640000			
	C 6		6.5	11	16		0.11	100	1493650000			
4 – 6	C 4	3.6	4.3	8	14	6	0.14	100	1493660000		EPG 45	APG 80 + HPG 80 APG 55 + HPG 44
	C 5		5.3	10	15		0.16	100	1492650000			
	C 6		6.5	11	16		0.16	100	1492660000			
	C 8		8.4	14	19		0.19	100	1492670000			
10	C 5	4.5	5.3	10	16	8	0.23	100	1492680000		CTN 25 D4	
	C 6		6.5	11	17		0.24	100	1492690000			
16	C 6	5.8	6.5	11	20	10	0.48	50	1492700000			
	C 8		8.4	14	22		0.50	50	1492710000			

Pin cable lugs DIN 46230, noninsulated



Pin cable lugs 0.1 – 95 mm²,
DIN 46230

Technical data

Material: Cu-HCP (0.1 – 6 mm²)
Cu-ETP (10 – 95 mm²)
Surface: tin plated

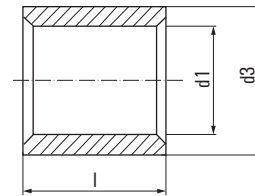
Ordering data

Cross-section mm ²	dimensions in mm				Ø pin	weight 100 pcs./kg	Qty. (pcs.)	Order No.	Tool recommendation				
	d1	l1	l2	a									
0.1 – 0.5	1	14	9	4	1.2	0.02	100	1492720000	HTN 21	CTN 25 D4	EPG 45	APG 55 + HPG 55	APG 80 + HPG 80
0.5 – 1	1.6	17	10	5	1.9	0.06	100	1492730000					
1.5 – 2.5	2.3	17	10	5	1.9	0.07	100	1492740000					
		22	15			0.09	100	1492750000*					
4 – 6	3.6	20	11	6	2.6	0.15	100	1492770000					
10	4.5	22	12	8	2.3 x 4.2	0.25	100	1492780000					
16	5.8	26	13	10	2.5 x 5.6	0.41	100	1492790000					
25	7	34.1	16	14	2.5 x 6.9	0.66	50	1492800000*					
35	8.4	41	20	16	3.2 x 8.1	1.19	50	1492810000*					
50	9.5	45.7	21	19	3.7 x 9.5	1.88	50	1492820000*					
70	11.2	55	24	24	4 x 11	3.01	50	1492830000*					
95	13.5	55.5	22	24	5.1 x 12.3	4.2	25	1492840000*					
* not standardized													

Parallel connectors 0.1 – 150 mm², form A, DIN 46341 part 1

Technical data

Material: Cu-HCP
Surface: tin plated



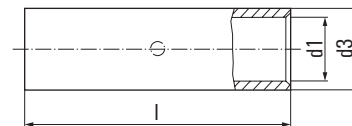
Ordering data

Cross-section mm²	dimensions in mm			weight 100 pcs./kg	Qty. (pcs.)	Order No.	Tool recommendation				
	l	d1	d3								
0.1 - 0.5*	5	1.2	2	0.01	100	1492850000	HTN 21	CTN 25 D4	EPG 45	APG 55 + HPG 44	APG 80 + HPG 80
0.5 - 1	7	1.6	3.3	0.04	100	1492860000					
1.5 - 2.5	7	2.3	4	0.05	100	1492870000					
4 - 6	7	3.6	5.7	0.09	100	1492880000					
10	9	4.6	6.8	0.15	100	1492890000					
16	10	5.9	8.3	0.23	100	1492900000					
25	12.5	7.7	10.7	0.45	100	1492910000					
35	14	9.2	12.4	0.65	100	1492920000					
50	17.5	11.2	14.8	1.13	100	1492930000					
70	18	13.5	17.5	1.59	100	1492940000					
95	19	15	20	2.34	50	1492950000					
120	21	16.7	22.7	3.53	50	1492960000					
150	25	19	25.5	5.02	50	1492970000					
* not standardized											

Joint connector 0.1 – 150 mm², form B, DIN 46341 part 1

Technical data

Material: Cu-HCP
Surface: tin plated



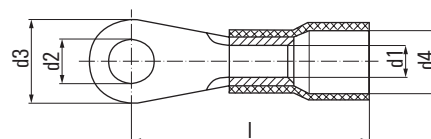
Ordering data

Cross-section mm²	dimensions in mm			weight 100 pcs./kg	Qty. (pcs.)	Order No.	Tool recommendation					
	l	d1	d3									
0,1 - 0,5*	12	1,2	2	0,02	100	1492980000	HTN 21	CTN 25 D4	EPG 45	APG 80 + HPG 80 APG 55 + HPG 55		
0,5 - 1	15	1,6	3,3	0,09	100	1492990000						
1,5 - 2,5	15	2,3	4	0,11	100	1493010000						
4 - 6	15	3,6	5,7	0,18	100	1493020000						
10	20	4,6	6,8	0,36	100	1493030000						
16	26	5,9	8,3	0,61	100	1493040000						
25	29	7,7	10,7	1,13	100	1493050000						
35	32	9,2	12,4	1,55	100	1493060000						
50	38	11,2	14,8	2,44	100	1493070000						
70	42	13,5	17,5	3,73	50	1493080000						
95	48	15	20	6,08	50	1493090000						
120	52	16,7	22,7	8,67	50	1493110000						
150	56	19	25,5	11,25	50	1493120000						
* not standardized												

Insulated connectors

A





Terminals 0.1 – 6 mm² DIN 46237 soldered seam and easy-entry insulation

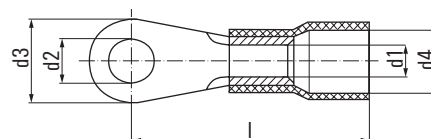
Technical data

Material:	Cu-ETP insulation: PC or * insulation: PA
Surface:	tin plated S = small palm

Ordering data

Cross-section mm ²	flat hole M	colour of insulation	d1	d4	d2	d3	l	Cu- weight 100 pcs./kg	Qty. (pcs.)	Order No.	Tool recommendation
0.1 – 0.5	2	yellow	1	2.3	2.2	5	14	0.02	100	1492090000*	HTI 15 CTI 6 + CTI 6S
	3				3.2	5	14	0.02	100	1492100000*	
	4				4.3	6.5	16	0.03	100	1492110000*	
	5				5.3	8	16	0.03	100	1492120000*	
0.5 – 1	2	red	1.6	4	2.2	6	17	0.06	100	1492140000	
	2.5				2.7	6	17	0.06	100	1492150000	
	3				3.2	6	17	0.06	100	1492170000	
	3.5				3.7	6	17	0.06	100	1492180000	
	4/S				4.3	7	17.5	0.06	100	1492190000	
	4				4.3	8	18	0.07	100	1492200000	
	5/S				5.3	8	18.5	0.06	100	1492210000	
	5				5.3	10	19	0.08	100	1492220000	
	6				6.5	10	19	0.07	100	1492230000	
	8				8.4	14	23	0.10	100	1492240000	
	10				10.5	18	25	0.10	100	1492130000	
1.5 – 2.5	3	blue	2.3	4.4	3.2	6	17	0.07	100	1492250000	
	3.5				3.7	6	17	0.06	100	1492270000	
	4/S				4.3	6.8	17.6	0.06	100	1492280000	
	4				4.3	8	18	0.08	100	1492290000	
	5/S				5.3	8	19.5	0.07	100	1492300000	
	5				5.3	10	20	0.10	100	1492310000	
	6				6.5	11	22	0.11	100	1492320000	
	8				8.4	14	23	0.14	100	1492330000	
	10				10.5	18	25.6	0.19	100	1492340000	
	12				13	18	26	0.16	100	1492350000	
4 – 6	4	yellow	3.6	6.4	4.3	8	21	0.14	100	1492370000	
	5				5.3	10	22	0.16	100	1492380000	
	6				6.5	11	23	0.17	100	1492390000	
	8				8.4	14	26	0.21	100	1492400000	
	10				10.5	18	28	0.27	100	1492410000	
	12				13	18	28	0.23	100	1492420000	

* insulation PA



Terminals 10 – 16 mm² with soldered seam and easy-entry insulation

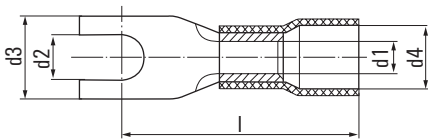
Technical data

Material:	Cu-ETP insulation: PA
Surface:	tin plated

Ordering data

Cross-section mm ²	flat hole M	colour of insulation	d1	d4	d2	d3	l	Cu- weight 100 pcs./kg	Qty. (pcs.)	Order No.	Tool recommendation
10	5	red	4,5	8	5,3	10	24,5	0,22	50	1492430000	EPG 45 APG 55 + HP G 55 APG 80 + HP G 80
	6				6,5	11	25,5	0,24	50	1492440000	
	8				8,4	14	28,5	0,29	50	1492450000	
	10				10,5	18	29,5	0,35	50	1492470000	
16	5	blue	5,8	10,5	5,3	11	31,5	0,40	50	1492480000	
	6				6,5	11	31,5	0,38	50	1492490000	
	8				8,4	14	33,5	0,42	50	1492500000	
	10				10,5	18	35,5	0,50	50	1492510000	

Terminals fork type



Terminals fork type 0.5 – 16 mm² with soldered seam and easy-entry insulation

Technical data

Material: Cu-ETP
insulation: PC
or
* insulation: PA

Surface: tin plated
S = small palm

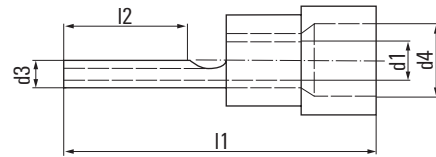
Ordering data

Cross-section mm²	flat hole M	colour of insulation	d1	dimensions in mm				Cu-weight 100 pcs./kg	Qty. (pcs.)	Order No.	Tool recommendation			
0.5 – 1	C 3	red	1.6	4	3.2	6	17	0.06	100	1492520000	HTI 15	CTI 6 + CTI 66		
	C 3.5				3.7	6	17	0.05	100	1492530000				
	C 4/S				4.3	6.8	18	0.06	100	1492540000				
	C 4				4.3	8	18.1	0.07	100	1492550000				
	C 5				5.3	10	19	0.08	100	1492580000				
	C 6				6.5	11	21	0.09	100	1492590000				
1.5 – 2.5	C 3	blue	2.3	4.5	3.2	5.5	19	0.06	100	1492600000				
	C 3.5				3.7	6	17	0.07	100	1492610000				
	C 4/S				4.3	6.8	18.7	0.06	100	1492620000				
	C 4				4.3	8	18	0.08	100	1492630000				
	C 5				5.3	10	20	0.10	100	1492640000				
	C 6				6.5	11	22	0.11	100	1491260000				
4 – 6	C 4	yellow	3.6	6.4	4.3	8	21	0.14	100	1491270000				
	C 5				5.3	10	22	0.16	100	1491280000				
	C 6				6.5	11	23	0.16	100	1491290000				
	C 8				8.4	14	26	0.19	100	1491310000				
	C 10				10.5	18	28	0.33	100	1491320000				
10	C 5	red	4.5	8	5.3	10.5	24.1	0.23	50	1491330000*				
	C 6				6.5	10.8	24.6	0.24	50	1491340000*				
16	C 6	blue	5.8	11	6.5	11	32.2	0.48	50	1491350000*				
	C 8				8.4	13.8	32.2	0.50	50	1491360000*				
* insulation PA														

Pin cable lugs 0.1 – 35 mm² DIN 46231 with soldered seam and easy-entry insulation

Technical data

Material:	Cu-HCP (0.1 – 0.5 mm ²) or Cu-ETP (0.5 – 35 mm ²)
Isolation:	PC (resp. *PA)
Surface:	tin plated



Ordering data

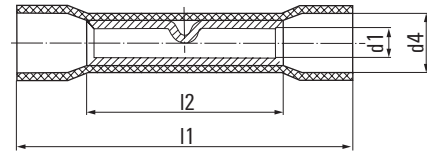
Cross-section mm ²	colour of insulation	d1	d4	dimensions in mm d3 l1 l2	Cu-weight 100 pcs./kg	Qty. (pcs.)	Order No.
0.1 – 0.5	yellow	1	2.2	1.2 18 9	0.02	100	1491370000*
0.5 – 1	red	1.7	4	1.9 22.8 11	0.06	100	1491380000
1.5 – 2.5	blue	2.3	4.5	1.9 22.8 11	0.07	100	1491390000
	blau			27 14	0.09	100	1491410000
4 – 6	yellow	3.6	6.4	2.8 27 11	0.15	100	1491420000
10	red	4.5	7.8	2.4 x 4.3 34 12	0.25	50	1491430000*
16	blue	5.8	9.1	2.5 x 5.6 40.7 13.5	0.41	50	1491440000*

* insulation PA

Joint connector 0.1 – 6 mm² with soldered seam and easy-entry insulation

Technical data

Material:	Cu-HCP (0.1 – 0.5 mm ²) or Cu-ETP (0.5 – 6 mm ²)
Isolation:	PC (resp. *PA)
Surface:	tin plated



Ordering data

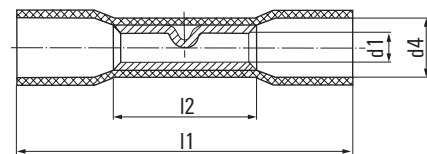
Cross-section mm ²	colour of insulation	d1	d4	dimensions in mm l1 l2	Cu-weight 100 pcs./kg	Qty. (pcs.)	Order No.
0.1 – 0.5	yellow	1.2	2	12 20	0.02	100	1491540000*
0.5 – 1	red	1.6	4.1	15 25	0.09	100	1491550000
1.5 – 2.5	blue	2.3	4.5	15 26	0.11	100	1491560000
4 – 6	yellow	3.6	6.4	15 27	0.18	100	1491570000

* insulation PA

Joint connector 0.14 – 6 mm² with heat shrink insulation and lined tubing

Technical data

Material:	Cu-ETP tin plated
Isolation:	0.14 – 0.5 mm ² = Polyolefin 0.5 – 6 mm ² = Polyethylen
Shrink temperature:	approx. 120 °C

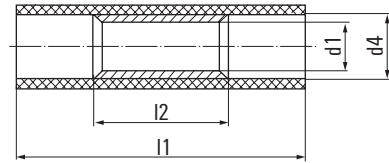
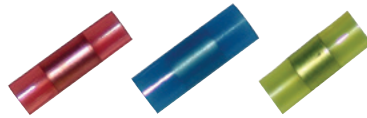


Ordering data

Cross-section mm ²	colour of insulation	d1	d4	dimensions in mm l2 l1	Cu-weight 100 pcs./kg	Qty. (pcs.)	Order No.
0.14 – 0.5	yellow	1.4	3.1	11.5 24.5	0.04	50	1491490000
0.5 – 1	red	1.7	4.4	15 36	0.09	50	1491510000
1.5 – 2.5	blue	2.3	5.2	15 36	0.11	50	1491520000
4 – 6	yellow	3.6	6.5	15 41	0.18	20	1491530000

* insulation PA

Parallel connectors / closed end connectors

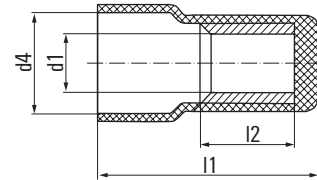
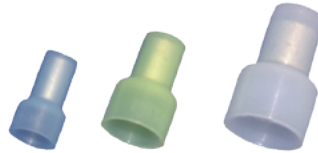
Parallel connectors 0.1 – 6 mm²

Technical data

Material:	Cu-HCP
Insulation:	PA
Surface:	tin plated

Ordering data

Cross-section mm ²	colour of insulation	d1	d4	l2	l1	Cu- weight 100 pcs./kg	Qty. (pcs.)	Order No.
0,1 – 0,5	yellow	1,2	2	5	12	0,01	100	1491450000
0,5 – 1	red	1,7	3,2	7	17	0,04	100	1491460000
1,5 – 2,5	blue	2,3	4	7	17	0,05	100	1491470000
4 – 6	yellow	3,6	5,4	7	21,2	0,09	100	1491480000

Closed end connectors 1.5 – 10 mm²
one side closed

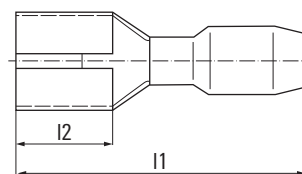
Technical data

Material:	Cu-ETP
Insulation:	PA
Surface:	tin plated

Ordering data

Cross-section mm ²	colour of insulation	d1	d4	l21	l2	Cu- weight 100 pcs./kg	Qty. (pcs.)	Order No.
1.5 – 2.5	blue transparent	2.3	6.4	8	15.4	0.05	100	1491580000
4 – 6	yellow transparent	3.4	9.2	8.5	17.7	0.09	100	1491590000
10	transparent	5	11.8	8	22	0.15	50	1491610000

* insulation PA



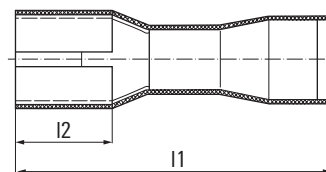
Cable-lug sleeves 0.5 – 6 mm²

Technical data

Material:	MS
Insulation:	PVC
Surface:	tin plated

Ordering data

Cross-section mm ²	colour of insulation	tab- width	tab- thickness	dimensions in mm I1 I2	Cu- weight 100 pcs./kg	Qty. (pcs.)	Order No.
0.5 – 1	red	2.8	0.5	19 6.5	0.08	100	1491640000
		2.8	0.8	19 6.5	0.08	100	1491650000
		4.8	0.5	19.4 6.4	0.09	100	1491660000
		4.8	0.8	19.4 6.4	0.09	100	1491670000
		6.3	0.8	20.8 7.5	0.10	100	1491680000
1.5 – 2.5	blue	2.8	0.5	19 6.5	0.08	100	1491730000
		2.8	0.8	19 6.5	0.08	100	1491740000
		4.8	0.5	19.4 6.4	0.09	100	1491690000
		4.8	0.8	19.4 6.4	0.09	100	1491710000
		6.3	0.8	20.8 7.3	0.11	100	1491720000
4 – 6	yellow	6.3	0.8	23.3 7.3	0.18	100	1491750000
		9.5	1.2	28.6 12	0.27	100	1491760000



Cable-lug sleeves 0.5 – 6 mm² completely insulated

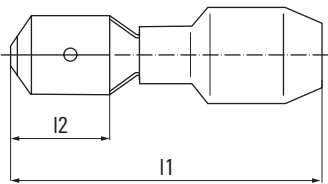
Technical data

Material:	Ms
Insulation:	PVC
Surface:	tin plated

Ordering data

Cross-section mm ²	colour of insulation	tab- width	tab- thickness	dimensions in mm I1 I2	Cu- weight 100 pcs./kg	Qty. (pcs.)	Order No.
0.5 – 1	red	2.8	0.5	19.2 6.4	0.08	100	1491860000
		2.8	0.8	19.2 6.4	0.08	100	1491870000
		4.8	0.5	20.2 6.4	0.10	100	1491880000
		4.8	0.8	20.2 6.4	0.10	100	1491890000
		6.3	0.8	21.5 7.3	0.11	100	1491910000
1.5 – 2.5	blue	4.8	0.5	20.2 6.5	0.11	100	1491920000
		4.8	0.8	20.2 6.5	0.11	100	1491930000
		6.3	0.8	21.5 7.3	0.14	100	1491940000
4 – 6	yellow	6.3	0.8	24.2 7.3	0.20	100	1491950000

Cable lug connector / piggy back disconnectors

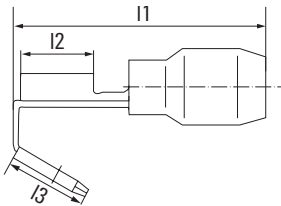
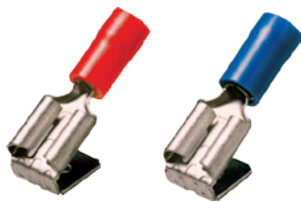


Cable lug connector 0.5 – 6 mm²

Technical data	
Material:	MS
Insulation:	PVC
Surface:	tin plated

Ordering data

Cross-section mm ²	colour of insulation	tab- width	tab- thickness	dimensions in mm		Cu-weight 100 pcs./kg	Qty. (pcs.)	Order No.
				I1	I2			
0.5	red	2.8	0.8	19.2	6.5	0.08	100	1491790000
		4.8	0.8	19.8	6.7	0.08	100	1491810000
		6.3	0.8	21.8	7.7	0.09	100	1491820000
1.5 – 2.5	blue	4.8	0.8	19.8	6.7	0.09	100	1491850000
		6.3	0.8	21.8	7.7	0.1	100	1491830000
4 – 6	yellow	6.3	0.8	24	7.7	0.17	100	1491840000

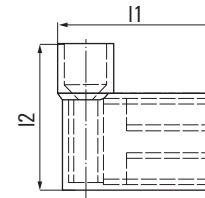
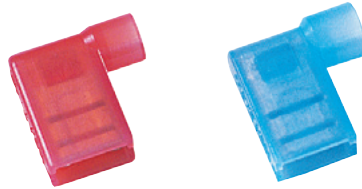


Piggy back disconnectors 0.5 – 2.5 mm²

Technical data	
Material:	MS
Insulation:	PVC
Surface:	tin plated

Ordering data

Cross-section mm ²	colour of insulation	tab- width	tab- thickness	dimensions in mm			Cu-weight 100 pcs./kg	Qty. (pcs.)	Order No.
				I1	I2	I3			
0.5 – 1	red	6.3	0.8	23.9	8	8.2	0.15	100	1491770000
1.5 – 2.5	blue	6.3	0.8	23	8	8.2	0.15	100	1491780000



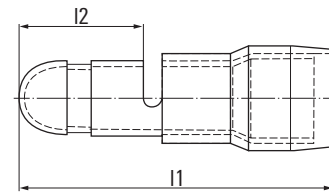
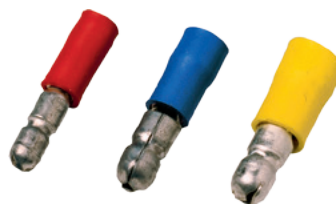
Flag female disconnectors 0.5 – 2.5 mm², completely insulated

Technical data

Material:	MS
Insulation:	PVC
Surface:	tin plated

Ordering data

Cross-section mm ²	colour of insulation	dimensions in mm				Cu- weight 100 pcs./kg	Qty. (pcs.)	Order No.
		tab- width	tab- thickness	l1	l2			
0.5 – 1	red	6.3	0.8	16.3	15	0.14	100	1491960000
1.5 – 2.5	blue	6.3	0.8	16.8	15	0.13	100	1491970000



Circular plug 0.5 – 6 mm²

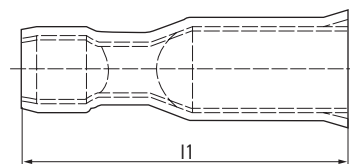
Technical data

Material:	MS
Insulation:	PVC
Surface:	tin plated

Ordering data

Cross-section mm ²	colour of insulation	pin Ø	dimensions in mm			Cu- weight 100 pcs./kg	Qty. (pcs.)	Order No.
			l1	l2				
0.5 – 1	red	4	21.5	8.5		0.1	100	1492040000
1.5 – 2.5	blue	5	21.2	8.5		0.11	100	1492050000
4 – 6	yellow	5	24	8.5		0.17	100	1492060000

Round-plug sleeves



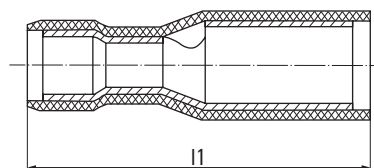
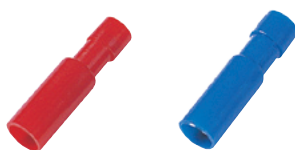
Round-plug sleeves 0.5 – 6 mm²

Technical data

Material:	MS
Insulation:	PVC
Surface:	tin plated

Ordering data

Cross-section mm ²	colour of insulation	dimensions in mm		Cu- weight 100 pcs./kg	Qty. (pcs.)	Order No.
pin Ø	l1					
0.5 – 1	red	4	23.3	0.13	100	1491980000
1.5 – 2.5	blue	5	23.3	0.15	100	1491990000
4 – 6	yellow	5	25.1	0.23	100	1492010000



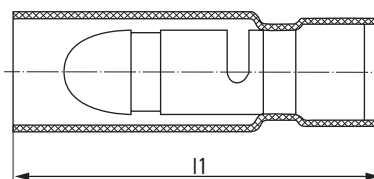
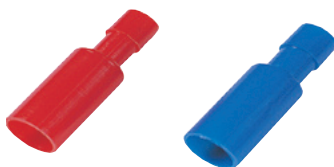
Round-plug sleeves 0.5 – 2.5 mm², completely insulated

Technical data

Material:	MS
Insulation:	PA
Surface:	tin plated

Ordering data

Cross-section mm ²	colour of insulation	dimensions in mm		Cu- weight 100 pcs./kg	Qty. (pcs.)	Order No.
pin Ø	l1					
0.5 – 1	red	4	25.2	0.12	100	1492020000
1.5 – 2.5	blue	4	25.2	0.13	100	1492030000



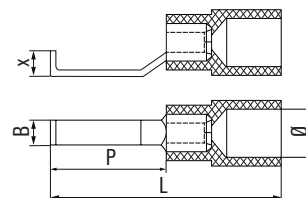
Round-plug sleeves 0.5 – 6 mm² completely insulated

Technical data

Material:	MS
Insulation:	PVC
Surface:	tin plated

Ordering data

Cross-section mm ²	colour of insulation	dimensions in mm		Cu- weight 100 pcs./kg	Qty. (pcs.)	Order No.
pin Ø	l1					
0.5 – 1	red	4	27	0.13	100	1492070000
1.5 – 2.5	blue	4	27	0.15	100	1492080000



Insulated hook-type cable lug

Technical data

Material:	copper
Insulation:	PC
Surface:	tin plated

Ordering data

Cross-section mm ²	colour of insulation	dimensions in mm				Cu- weight 100 pcs./kg	Qty. (pcs.)	Order No.
Ø	x	L	P					
0.5 - 1.5	red	4	2.1	28.4	17.4	0.74	100	1233340000
0.5 - 1.5	red	4	2.1	28.4	17.4	0.88	100	1312440000
1.5 - 2.5	blue	4.5	2.1	28.2	17.4	1.05	100	1233330000
1.5 - 2.5	blue	4.5	2.1	28.2	17.4	0.88	100	1312450000
4.0 - 6.0	yellow	6.4	2.8	30.2	17.2	1.59	100	1312470000
4.0 - 6.0	yellow	6.4	2.8	30.2	17.2	1.825	100	1216230000

Crimping tools

Crimping tools	Introduction / Mechanical and electro-hydraulic crimping tools	B.2
	Crimping tools CTI 6 G + CTI 6 / HTI 15 + HTN 21 / CTN 25 D 4	B.8
	Crimping tools PZ PK 6/70 and PZ RK 6/70	B.11
	Crimping tools PZ PK 10/120 and PZ RK 10/120	B.12
	Crimping tools MTR 35	B.13
	Crimping tools EPG 45 and MTR 110	B.15
	Crimping tools MTR 160 and MTR 300	B.19
	Crimping tools APG 55 and HPG 55	B.21
	Crimping tools APG 80 and HPG 80	B.24
	Battery-powered hydraulic cable cutter AKT 50	B.28
	Battery / Battery charger	B.29

Mechanical and electro-hydraulic crimping tools

The precision tools from Weidmüller are worldwide in use. This is a responsibility Weidmüller takes seriously, offering comprehensive services to support this global use.

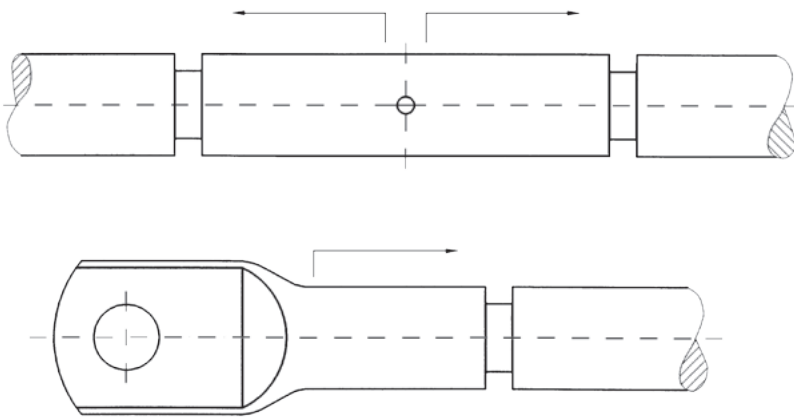
B

Tools in daily use should always guarantee consistent processing quality even after many working cycles. Weidmüller offers its customers the service of „Tool-Certification“. With this technical test procedure Weidmüller guarantees for the functionality and quality of its tools.



Assembly of cable lugs and connectors general

1. Take the measurements of the cable lugs / connectors and their allocation of cross section out of this catalogue.
2. Cut the cable right-angled to the conductor. Strip off the insulation of the cable. The part to be stripped of has to be as long as the sleeve (measurement a) of the cable lug / connector + about 10 %.
3. Before crimping clean the conductor with a wire brush in order to remove dirt and oxidation. Sectorshaped conductors must be rounded before crimping!
4. Insert the noninsulated conductor into the compression sleeve until it reaches the wire stop.
5. Before starting to crimp please check whether conductor and cable lug respectively connector have the same cross section and do fit to each other according to our catalogue.
6. Please check whether crimping tool and crimping dies are suitable for the cable lugs/connectors you want to crimp. You can take this information for each series and cross section from the manufacturer's catalogue or the operating instructions of the tool.
7. The crimping process is evaluated, on the cable lug and connector, from the cable end to the end of the sleeve.(see illustration).



For the quantity of crimpings take notice of the preceding charts.
(These you are able to find on the following page)

Crimping instructions for euro-series

Crimping instructions

Minimum necessary crimping quantity of cable lugs and connectors for euro-series. (WM-crimping):

B

Crimping tools and order numbers

Cross section in mm	crimping quantity x width	PZ RK 6/70 1500440000	PZ RK 10/120 1500450000	MTR 35 9017500000	MTR 110 9018020000	EPG 45 1500830000	HPG 55 1501400000	APG 55 1501390000	HPG 80 1502420000	APG 80 1502390000
6	1 x 5 mm									
	1 x 7 mm									
10	1 x 5 mm									
	1 x 7 mm									
16	2 x 5 mm									
	1 x 7 mm									
25	2 x 5 mm									
	1 x 12 mm									
35	2 x 5 mm									
	1 x 10 mm									
	1 x 12 mm									
50	2 x 5 mm									
	1 x 12 mm									
70	2 x 5 mm									
	1 x 12 mm									
95	2 x 5 mm									
	1 x 12 mm									
120	3 x 5 mm									
	2 x 7 mm									
	1 x 10 mm									
150	3 x 5 mm									
	2 x 7 mm									
185	3 x 5 mm									
	2 x 7 mm									
	2 x 10 mm									
240	3 x 5 mm									
	3 x 7 mm									
	2 x 10 mm									
300	4 x 5 mm									
	3 x 7 mm									
	2 x 13 mm									

Crimping instructions for DIN 46235-series and DIN 46267-series

Crimping instructions

Minimum necessary crimping quantity of cable lugs and connectors
for DIN 46235-series and DIN 46267-series (Hexagonal-shape-crimping):

B

Crimping tools and order numbers

cross section in mm	die code	crimping quantity x width	PZ PK 6/70 1500470000	PZ PK 10/120 1500480000	MTR 35 9017500000	MTR 110 9018020000	EPG 45 1500830000	HPG 55 1501400000	APG 55 1501390000	HPG 80 1502420000	APG 80 1502390000
6	5	1 x 5 mm 1 x 7 mm									
10	6	1 x 5 mm 1 x 7 mm									
16	8	2 x 5 mm 1 x 12 mm									
25	10	2 x 5 mm 1 x 12 mm									
35	12	2 x 5 mm 1 x 10 mm 1 x 12 mm									
50	14	3 x 5 mm 1 x 12 mm									
70	16	3 x 5 mm 1 x 12 mm									
95	18	3 x 5 mm 4 x 5 mm 2 x 10 mm									
120	20	3 x 5 mm 4 x 5 mm 2 x 10 mm									
150	22	4 x 5 mm 2 x 10 mm									
185	25	4 x 5 mm 2 x 10 mm									
240	28	4 x 5 mm 2 x 13 mm									
300	32	4 x 5 mm 4 x 7 mm 2 x 13 mm									

Traction - specified value

cross section mm ²	Values for crimpings up to 10 mm ² (except end ferrules) (EN 60352 part 2 release 10/2002)					
	traction 100 %	130 %	150 %	traction 100 %		
0,2				28 N		
0,34				40 N		
0,5	60 N	78 N	90 N	56 N		
0,75	85 N	111 N	128 N	84 N		
1	108 N	140 N	162 N	108 N		
1,5	150 N	195 N	225 N	150 N		
2,5	230 N	299 N	345 N	230 N		
4	310 N	403 N	465 N	310 N		
6	360 N	468 N	540 N	360 N		
10	380 N	494 N	570 N			
	Values for copper crimpings from 10 mm ² DIN EN 61238-1 release 3/2004 except end ferrules (VDE 0220 part 100 cross-section x 60) calculation:			Values for aluminium crimpings from 16 mm ² (VDE 0220 part 100 cross-section x 40) calculation:		
	traction 100 %	130 %	150 %	traction 100 %	130 %	150 %
10	600 N	780 N	900 N			
16	960 N	1.248 N	1.440 N	640 N	832 N	960 N
25	1.500 N	1.950 N	2.250 N	1.000 N	1.300 N	1.500 N
35	2.100 N	2.730 N	3.150 N	1.400 N	1.820 N	2.100 N
50	3.000 N	3.900 N	4.500 N	2.000 N	2.600 N	3.000 N
70	4.200 N	5.490 N	6.300 N	2.800 N	3.640 N	4.200 N
95	5.700 N	7.410 N	8.550 N	3.800 N	4.940 N	5.700 N
120	7.200 N	9.360 N	10.800 N	4.800 N	6.240 N	7.200 N
150	9.000 N	11.700 N	13.500 N	6.000 N	7.800 N	9.000 N
185	11.100 N	14.430 N	16.650 N	7.400 N	9.620 N	11.100 N
240	14.400 N	18.720 N	21.600 N	9.600 N	12.480 N	14.400 N
300	18.000 N	23.400 N	27.000 N	12.000 N	15.600 N	18.000 N
400	24.000 N*			16.000 N	20.800 N	24.000 N
500	30.000 N*			20.000 N	26.000 N	30.000 N
625	37.500 N*			25.000 N*		
800	48.000 N*			32.000 N*		
1.000	60.000 N*			40.000 N*		

Note: * The maximum value of VDE 2002 T100 is 20.000 N!

To pass the test according to the norm, the conductor in the crimping connection may not slide by 100 % of the traction during 60 seconds holding time.

Crimping tools for other contacts

- Ratchet for precise crimping
- Release option in the event of incorrect operation
- With end stop for exact positioning of the contacts

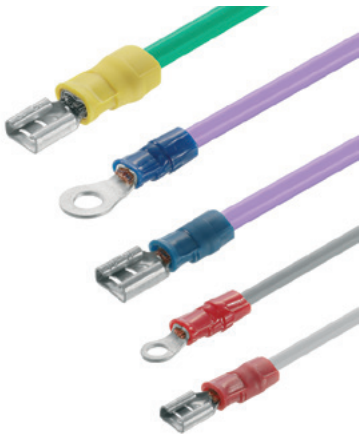
CTI 6 G

0,5...6 mm²



For PVC, PC- and polyamide-insulated connectors

- ~AWG 21...10
- Parallel crimp profile for crimping contact and insulation in one step



CTI 6

0,5...6 mm²



For PVC, PC- and polyamide-insulated connectors

- ~AWG 21...10
- Double-crimp profile for crimping contact and insulation in one step



Technical data

Description of contact	
Type of contact	
Crimping range	mm²
Crimping range 1 (with multiple crimping positions)	mm²
Crimping range 2 (with multiple crimping positions)	mm²
Crimping range 3 (with multiple crimping positions)	mm²
Plug width	mm
Tool data	
Length	mm
Weight	g
Note	

Ordering data

Version
Note

CTI 6 G		
Insulated connector		
	0,5...6	
	0,5...1,5	
	1,1...2,5	
	2,6...6	
Tool data		
	250	
	747	
Note		

Type	Qty.	Order No.
CTI 6 G	1	9202850000
CTI 6 G ZERT	1	1292880000
Note		

CTI 6		
Insulated connector		
	0,5...6	
	0,5...1,5	
	1,1...2,5	
	2,6...6	
Tool data		
	250	
	730	
Note		

Type	Qty.	Order No.
CTI 6	1	9006120000
CTI 6 ZERT	1	9017290000
Note		

Crimping tools for other contacts

- Ratchet for precise crimping
- Release option in the event of incorrect operation
- With end stop for exact positioning of the contacts
- Tested according to DIN EN 60352 Part 2

HTI 15

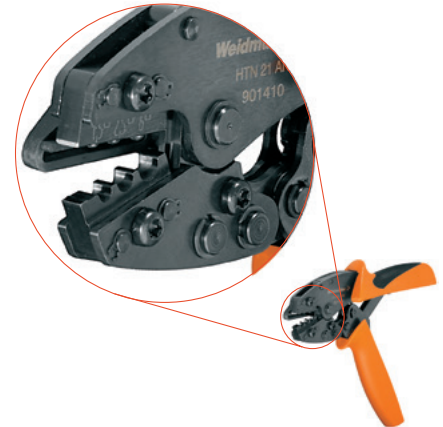
0.5...2.5 mm²

For PVC-, PC- and polyamide-insulated connectors

- ~AWG 21...14
- Double-crimp profile, for crimping contact and insulation in one step



HTN 21

0.5...6 mm²

For uninsulated cable lugs and connectors

- ~AWG 21...10
- Rolled cable lugs, for example acc. to DIN 46234
- Tubular cable lugs
- Pin cable lugs
- Parallel and serial connectors
- Indent crimping
- Alternatively available with or without pivoting end stop



Technical data

Description of contact	
Type of contact	
Crimping range	mm ²
Crimping range 1 (with multiple crimping positions)	mm ²
Crimping range 2 (with multiple crimping positions)	mm ²
Crimping range 3 (with multiple crimping positions)	mm ²
Plug width	mm
Tool data	
Length	mm
Weight	g
Note	

Ordering data

Version
Note

HTI 15		
Insulated connector		
Crimping range	0.5...2.5	
Crimping range 1 (with multiple crimping positions)	0.5...1.5	
Crimping range 2 (with multiple crimping positions)	1.1...2.5	
Plug width		
Tool data		
Length	200	
Weight	434	
Note		

Type	Qty.	Order No.
HTI 15	1	9014400000
HTI 15 ZERT	1	9017430000

HTN 21	HTN 21 M. AN.
Uninsulated connection	
Crimping range	0.5...6
Crimping range 1 (with multiple crimping positions)	0.5...1.5
Crimping range 2 (with multiple crimping positions)	1.1...2.5
Crimping range 3 (with multiple crimping positions)	2.6...6
Plug width	
Tool data	
Length	200
Weight	427
Note	
End stop for secure contact positioning in tool	

Type	Qty.	Order No.
HTN 21	1	9014610000
HTN 21 ZERT	1	9017380000
HTN 21 M. AN	1	9014100000
HTN 21 M. AN ZERT	1	9017170000

Crimping tools CTI 6 G + CTI 6 / HTI 15 + HTN 21 / CTN 25 D 4

Crimping tools for other contacts

- Ratchet for precise crimping
- Release option in the event of incorrect operation

CTN 25 D 5

10...25 mm²

For uninsulated cable lugs and connectors

- ~AWG 8...4
- Rolled cable lugs, acc. to DIN 46234
- Pin cable lugs
- Parallel and serial connectors
- Hexagon crimping



Technical data

Description of contact	
Type of contact	
Crimping range	mm ²
Crimping range 1 (with multiple crimping positions)	mm ²
Crimping range 2 (with multiple crimping positions)	mm ²
Crimping range 3 (with multiple crimping positions)	mm ²
Plug width	mm
Tool data	
Length	mm
Weight	g
Note	

CTN 25 D5	
Uninsulated connection	
10...25	
10	
16	
25	
250	
730	

Ordering data

Version
Note

Type	Qty.	Order No.
CTN 25 D5	1	9006230000
CTN 25 D5 ZERT	1	1292870000

Crimping tool

The cross section can be adjusted by turning the in-built revolving dies. So there is no need of changing dies. Furthermore this tool points by small measurements, light weight, optimized transmission ratio and an extremely high crimping quality due to precisely guided dies.

PZ PK 6/70



Crimping tool for crimping compression cable lugs DIN 46235, compression connectors DIN 46267, aluminium cable lugs and connectors.

Crimping profile: hexagonal-shape with control embossing

PZ RK 6/70



Crimping tool for crimping tubular cable lugs and connectors of the euro-series

Crimping profile: all around WM Style Crimp with control embossing



Technical data

Application range	
Cu	
Alu	
Crimping width	mm
Tool data	
Length	mm
Weight	g
Note	

PZ PK 6/70		
Cu	=	6...70 mm ² (K 5 - K 16)
Alu	=	10...50 mm ² (K 10 - K 16)
Crimping width		5
Length		515
Weight		2000
Note		

PZ RK 6/70		
Cu	=	6...70 mm ²
Crimping width		5
Length		515
Weight		2000
Note		

Ordering data

Version
Note

Type	Qty.	Order No.
PZ PK 6/70	1	1500470000

Type	Qty.	Order No.
PZ RK 6/70	1	1500440000

Crimping tools PZ PK 10/120 and PZ RK 10/120

Crimping tools

The cross section can be adjusted by turning the in-built revolving crimp insert. So there is no need of changing crimp inserts.

PZ PK 10/120



Crimping tool for crimping compression cable lugs DIN 46235, compression connectors DIN 46267, aluminium cable lugs and connectors

Crimping profile: hexagonal-shape with control embossing



PZ RK 10/120



Crimping tool for crimping tubular cable lugs and connectors of the euro-series. Furthermore this tool points by small measurements, light weight and an extremely high crimping quality due to WM-crimping.

Crimping profile: all around WM Style Crimp with control embossing



Technical data

Application range	
Cu	
Alu	
Crimping width	mm
Tool data	
Length	mm
Weight	g
Note	

Ordering data

Version	
Note	

PZ PK 10/120		
Cu	=	10...20 mm ² (K 6 - K 20)
Alu	=	10 ...70 mm ² (K 10 - K 18)
Crimping width		5
Length		660
Weight		4100
Note		

Type	Qty.	Order No.
PZ PK 10/120	1	1500480000
Note		

PZ RK 10/120		
Cu	=	10...120 mm ²
Alu	=	
Crimping width		5
Length		660
Weight		4100
Note		

Type	Qty.	Order No.
PZ RK 10/120	1	1500450000
Note		

Crimping tools for connectors

- For insulated and uninsulated cable lugs and connectors
- Mechanical function ensures safe and manageable operations under different environmental conditions
- Precision engineering means a high pressing force with little physical effort
- Fast feed helps pre-centreing and extraction of the connecting parts
- Ratchet for high-quality, flawless crimping
- Release option in the event of incorrect operation
- Comprehensive range of standard-compliant crimp inserts

MTR 35

6...50 mm²



- ~AWG 16...0000
- Tubular cable lugs from 6...50 mm²
- Wire-end ferrules from 6...50 mm²
- Retractable head for easy withdrawal of crimped connection



Technical data

Description of contact	
Pressing force / Deviation	kN/mm
Crimping range for copper tube connector	mm ²
Crimping range for insulated connectors	mm ²
Crimping range of wire end ferrule	mm ²
Tool data	
Length / Weight	mm/kg
Note	

MTR 35		
25 / 8		
6...50		
10...25		
25...50		
270 / 1.3		
For more details see crimp inserts on the following pages		

Ordering data

Version
Note

Type	Qty.	Order No.
MTR 35	1	9017500000

Accessories

Note

Type	Qty.	Order No.
MTR 35	1	9017840000
Crimping inserts see on the following pages		

Crimping inserts – MTR 35

Crimping inserts WM-shape

- for crimping cable lugs and connectors of the euro-series

Ordering data

mm ²	Crimp. width mm	Order No.
6	5	1500490000
10	5	1500500000
16	5	1500520000
25	5	1500530000
35	5	1500540000
50	5	1500550000



B

Crimping inserts hexagonal-shape

- for crimping compression copper cable lugs DIN 46 235
- compression copper connectors DIN 46 267 part 1
- aluminium and aluminium/ copper cable lugs and connectors

Ordering data

Code no.	Cu mm ²	Al mm ²	Crimp. width mm	Order No.
5	6	-	5	1500580000
6	10	-	5	1500590000
8	16	-	5	1500600000
10	25	10	5	1500620000
12	35	16+25	5	1500630000
14	50	35	5	1500640000



Indent Crimping inserts

- for compression terminals DIN 46234
- pin cable lugs DIN 46230
- connector DIN 46341 part 1

Ordering data

mm ²	Crimp. width mm	Order No.
6	5	1500650000
10	7	1500670000
16	10	1500680000
25	10	1500690000
35	10	1500700000



Crimping inserts

- for insulated compression terminals

Ordering data

mm ²	Crimp. width mm	Order No.
10	7	1500720000
16	7	1500730000
25	10	1500740000

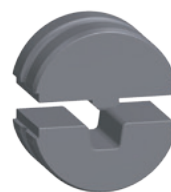


Crimping inserts square-shape

- for insulated and non insulated wire-end ferrules
- crimping width 18 mm

Ordering data

mm ²	Crimp. width mm	Order No.
6	18	1500750000
10	18	1500770000
16	18	1500780000
25	18	1500790000
35	18	1500800000
50	18	1500820000



Hydraulic battery crimping tool 45 kN

Battery-powered hydraulic compression hand-crimping tool for crimp cable lugs and connectors up to 150 mm².

- extremely quick processing due to a three-stage axial piston pump
- wide application range up to 150 mm²
- 270° revolving head with quick opening and closing
- because of a flap closure easy working also in places with difficult access
- automatic pressure limits and monitoring through pressure sensor
- engine shutdown and automatic retract after completed pressing
- electronic regulation and supervision of the press process
- manual retract
- save of all crimps and error messages on internal memory
- selections of all cycles and error messages about USB interface
- no uncompleted pressing cycles through ongoing monitoring of the rest battery cargo load
- controlled engine drive to the life extension of gearbox, engine and battery
- integrated service management and software updates about the USB interface
- fast tool return pipe through high return flow volume
- sleep-mode; maintenance indication and battery control
- integrated, intelligent electronics assembly with multifunctional LED
- mini-USB interface for all standard computer systems for:
 - Crimping force graph and error indicatio
 - Service Check up
- Li-Ion battery with charge level indicator: 18 V 1.5 Ah

Technical data

Description of contact	
Press capacity / piston stroke	kN/mm

Tool data	
Length x width x height / weight	mm/kg

Note

Ordering data

Version	
---------	--

Note

Accessories

Replacement battery - Li-Ion 18 V. 1.5 Ah

Note

EPG 45

6...150 mm²

Included in delivery

- Hydraulic tool including 1x battery and 1x battery charger
- Manual
- Software
- USB connection cable
- Carrying bag for tool and Crimping inserts



EPG 45
45 / 16

370 x 123 x 80 / 2.3

Type	Qty.	Order No.
EPG 45	1	1500830000
EPG 45 120 V	1	1508780000

Type	Qty.	Order No.
AKKU EPG 45	1	1500840000
Ladegerät EPG	1	1509370000
Ladegerät EPG 120 V	1	1509380000

Range of application	Ø mm²
Crimping inserts WM-shape for euro-series	6 - 150
Hexagonal crimping inserts for compression cable lugs (DIN 46235) + connectors (DIN 46267)	6 - 150 (K5-K22)
Mandrel crimping inserts for compression terminals DIN 46234	6 - 50
Crimping inserts for insulated compression terminals	10 - 50
Crimping inserts square-shape for insulated and non insulated wire-end ferrules	6 - 50
Rounding crimping inserts for rounding sector-shaped copper and aluminium conductors	10 - 150

Crimping tools EPG 45 and MTR 110

Crimping tools for connectors

- For insulated and uninsulated cable lugs and connectors
- Mechanical function ensures safe and manageable operations under different environmental conditions
- Precision engineering means a high pressing force with little physical effort
- Fast feed helps pre-centreing and extraction of the connecting parts
- Ratchet for high-quality, flawless crimping
- Release option in the event of incorrect operation
- Comprehensive range of standard-compliant crimp inserts

MTR 110

6...120 mm²

- ~AWG 16...0000
- Tubular cable lugs from 6...120 mm²
- Wire-end ferrules from 6...50 mm²
- Retractable head for easy withdrawal of crimped connection



Technical data

Description of contact	
Pressing force / Deviation	kN/mm
Crimping range for copper tube connector	mm ²
Crimping range for insulated connectors	mm ²
Crimping range of wire end ferrule	mm ²
Tool data	
Length / Weight	mm/kg

Note

Ordering data

Version

Note

Accessories

|--|

Note

MTR 110	
55 / 10	
6...120	
10...16	
6...50	
420 / 2	

For more details see crimp inserts on the following pages

Type	Qty.	Order No.
MTR 110	1	9018020000

Type	Qty.	Order No.
MTR 110	1	9018040000

Crimping inserts see on the following pages

Crimping inserts WM-shape

- for crimping cable lugs and connectors of the euro-series

Ordering data

mm ²	Crimp. width mm	Order No.
6	7	1500850000
10 / 70	7 / 5	1500870000
16 / 35	7 / 10	1500920000
25 / 50	12 / 5	1500880000
95	5	1500890000
120	5	1500900000
150*	5	on request

* only EPG 45

**Crimping inserts hexagonal-shape**

- for crimping compression copper cable lugs DIN 46 235
- compression copper connectors DIN 46 267 part 1
- aluminium and aluminium/copper cable lugs and connectors

Ordering data

Code no.	Cu mm ²	Al mm ²	Crimp. width mm	Order No.
5	6	-	7	1500930000
6 / 16	10 / 70	- / 50	7 / 5	1500940000
8 / 12	16 / 35	- / 16+25	12 / 10	1500950000
10 / 14	25 / 50	10 / 35	12 / 5	1500970000
18	95	70	5	1500980000
20	120	-	5	1500990000
22	150*	-	5	on request

* only EPG 45

**Indent Crimping inserts**

- for compression terminals DIN 46234
- pin cable lugs DIN 46230
- connector DIN 46341 part 1

Ordering data

mm ²	Crimp. width mm	Order No.
6	6	1501290000
10	8	1501320000
16	10	1501330000
25	12	1501340000
35	12	1501350000
50	12	1501370000
70	12	1501380000

**Crimping inserts**

- for insulated compression terminals

Ordering data

mm ²	Crimp. width mm	Order No.
10	7	1501000000
16	7	1501020000

**Crimping inserts square-shape**

- for insulated and non insulated wire-end ferrules
- crimping width 19 mm

Ordering data

mm ²	Crimp. width mm	Order No.
6	19	1501030000
10	19	1501040000
16	19	1501050000
25	19	1501070000
35	19	1501170000
50	19	1501180000



Crimping inserts – EPG 45 and MTR 110

Prerounding die sets

- for rounding sector-shaped copper and aluminium conductors crimping width: 12 mm

sm = stranded conductors

se = solid conductors

Ordering data

mm ² sm	mm ² se	Crimp. width mm	Order No.
10	-	12	1501190000
16	-	12	1501200000
25	35	12	1501220000
35	50	12	1501230000
50	70	12	1501240000
70	95	12	1501250000
95	120	12	1501270000
120	150	12	1501280000



Crimping tools for connectors

- For insulated and uninsulated cable lugs and connectors
- Mechanical function ensures safe and manageable operations under different environmental conditions
- Precision engineering means a high pressing force with little physical effort
- Fast feed helps pre-centreing and extraction of the connecting parts
- Ratchet for high-quality, flawless crimping
- Release option in the event of incorrect operation
- Comprehensive range of standard-compliant crimp inserts

MTR 16010...240 mm²

- ~AWG 8
- Tubular cable lugs from 10...240 mm²

MTR 30010...300 mm²

- ~AWG 8
- Tubular cable lugs from 10...300 mm²
- Retractable head for easy withdrawal of crimped connection
- Turntable presses: 25...240 sm; 35...240 se

Technical data

Description of contact	
Pressing force / Deviation	kN/mm
Crimping range for copper tube connector	mm ²
Crimping range for insulated connectors	mm ²

Tool data	
Length / Weight	mm/kg

Note

Ordering data

Version

Note

Accessories

|--|

Note

MTR 160

100 / 16

540 / 4

For more details see crimp inserts on the following pages sm: sector conductor stranded; se: sector single conductor

Type	Qty.	Order No.
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MTR 160	1	9017250000
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Note

Type	Qty.	Order No.
------	------	-----------

MTR 160	1	9017270000
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Crimping inserts see on the following pages

MTR 300

100 / 16
10...300
10...120

540 / 4

For more details see crimp inserts on the following pages sm: sector conductor stranded; se: sector single conductor

Type	Qty.	Order No.
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MTR 300	1	9021390000
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Note

Type	Qty.	Order No.
------	------	-----------

MTR 300	1	9021420000
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Crimping inserts see on the following pages

MTR 160

	Cross-section [mm ²]	Code to DIN 48083	Crimping width [mm]	Order No.
Die sets for copper tube cable lugs and connectors DIN 46235				
	10	6	7,0	9020900000
	16	8	7,0	9020910000
	25	10	7,0	9020920000
	35	12	7,0	9020930000
	50	14	7,0	9020940000
	70	16	7,0	9020950000
	95	18	7,0	9020960000
	120	20	7,0	9020970000
	150	22	7,0	9020980000
	185	25	7,0	9020990000
	240	28	7,0	9021000000

MTR 300

	Cross-section [mm ²]	Code to DIN 48083	Crimping width [mm]	Order No.
Die sets for copper tube cable lugs and connectors DIN 46235				
	10	6	7,0	9021430000
	16	8	7,0	9021440000
	25	10	7,0	9021450000
	35	12	7,0	9021460000
	50	14	7,0	9021470000
	70	16	7,0	9021480000
	95	18	7,0	9022290000
	120	20	7,0	9022300000
	150	22	7,0	9022310000
	185	25	7,0	9022320000
	240	28	7,0	9022330000
	300	32	7,0	9022340000

	Cross-section [mm ²]	Crimping width [mm]	Order No.
Die sets for copper tube cable lugs and connectors standard Types			
	10/25	9,8	9021750000
	16/35	9,8	9021760000
	50	8,0	9021770000
	70	8,0	9021780000
	95	8,0	9021790000
	120	8,0	9021800000
	150	8,0	9021810000
	185	8,0	9021820000
	240	8,0	9021830000

	Cross-section [mm ²]	Crimping width [mm]	Order No.
Die sets for copper tube cable lugs and connectors standard Types			
	10/25	9,8	9024010000
	16/35	9,8	9024400000
	50	8,0	9024410000
	70	8,0	9024420000
	95	8,0	9024430000
	120	8,0	9025210000
	150	8,0	9025220000
	185	8,0	9025230000
	240	8,0	9028020000

	Cross-section [mm ²]	Order No.
Die sets for insulated cable lugs and connectors, DIN 46234, DIN 46230		
	10	9021300000
	16	9021310000
	25	9021320000
	35	9021330000
	50	9021340000
	70	9021350000
	95	9021360000
	120	9021370000
	150	9021380000
	with control mark	

	Cross-section [mm ²]	Order No.
Stamp and dies for copper cable lugs and connectors, DIN 46234, DIN 46230		
	2-way die	
	16/35	9022360000
	10/70	9022350000
	25/50	9022370000
	Stamp	
	10 - 70	9022990000
	Single die	
	95	9022380000
	120	9022390000
	150	9022400000
	Stamp	
	95-150	9023110000

	Cross-section [mm ²]	Order No.
Die sets for insulated cable lugs and connectors, DIN 46231, 46237		
	10	9016180000
	16	9016190000
	25	9016200000
	35	9016210000
	50	9016220000
	70	9016230000
	95	9016240000
	120	9016250000

	Prerounding die sets Cu/Al for sectioned cable	Order No.
	25 sm/35 se	9016260000
	35 sm/50 se	9016270000
	50 sm/70 se	9016280000
	70 sm/95 se	9016290000
	95 sm/120 se	9016370000
	120 sm/150 se	9016380000
	150 sm/185 se	9016390000
	185 sm/240 se	9016440000

Battery-powered compression tool APG 55

Battery-powered hydraulic compression tool for crimping cable lugs and connectors up to 240 mm².

- extremely quick processing due to a two-stage hydraulic pump
- 270° revolving head with quick opening and closing
- integrated pressure relief valve, false pressings cause no damage at tool nor dies
- Pressure-relief-button in one-hand operation is able to press from both sides. (for right-and left handed persons)
- integrated overpressure valve, in case of wrong pressings, no damage of tools or inserts
- lithium-ion-battery without memory effect, self discharges very low
- high capacity due 3.0 Ah battery
- fastening eye for balance and carrying strap available
- ergonomic handle with a balanced weight distribution for sure work free of tiredness
- case, handle shell and pressure discharge key completely from isolated and push-firm plastic material
- universal usage: dies for all versions of cable lugs and connectors are available
- integrated electronic module for:
 - permanent accumulator-loading state control
 - supervision of the working process and state announcement
 - announcement of the next service intervall
 - mistake announcement at possible disturbances

APG 55

6...240 mm²



Included in delivery

- Battery-powered compression tool with battery and battery charger
- supporting loop for transport and safety
- transport plastic case



Technical data

Description of contact	
Press capacity	kN
Operating voltage	Volt
Battery charger	
Time of loading	
Tool data	
Length x width x height / weight	mm/kg
Note	

Ordering data

Version
Note

Accessories

Replacement battery - Li-Ion 18 V, 1.5 Ah
Note

APG 55	
approx. 55	
14.4	
220-240V 50-60Hz 7.2-18V	
approx. 50 minutes	
95 x 350 x 310 mm / 3.6 kg (incl. battery)	

Type	Qty.	Order No.
APG 55	1	1501390000
APG 55 120 V	1	1508790000

Type	Qty.	Order No.
Ersatz Akku APG	1	1502140000
Ladegerät APG	1	1502170000
Ladegerät APG 120 V	1	1509390000

Crimping tools APG 55 and HPG 55

Hand-operated hydraulic crimping tool HPG 55

Hand-operated hydraulic crimping tool for crimping cable lugs and connectors up to 240 mm².

- extremely quick processing due to a two-stage hydraulic pump
- because of a flap closure easy working also in places with difficult access
- extremely light, handy and compact construction form
- integrated pressure relief valve, false pressings cause no damage at tool nor dies
- universal usage: dies for all versions of cable lugs are available
- delivery completely transport plastic case

HPG 55

6...240 mm²



- 180° revolving head with quick opening and closing



Technical data

Description of contact	
Press capacity / piston stroke	kN/mm
Tool data	
Length / Weight	mm/kg
Note	

HPG 55		
approx. 55		
400 / 2.6		

Ordering data

Version
Note

Type	Qty.	Order No.
HPG 55	1	1501400000

Accessories

Note

Type	Qty.	Order No.

Crimping inserts WM-shape

- for crimping cable lugs and connectors of the euro-series

Ordering data

mm ²	Crimp. width mm	Order No.
6	7	1501420000
10 / 70	7 / 5	1501430000
16 / 35	7 / 5	1501440000
25 / 50	12 / 5	1501450000
95	5	1501470000
120	5	1501480000
150	5	1501490000
185	5	1501500000
240	5	1501520000

**Crimping inserts hexagonal-shape**

- for crimping compression copper cable lugs DIN 46 235
- compression copper connectors DIN 46 267 part 1
- aluminium and aluminium/copper cable lugs and connectors

Ordering data

Code no.	Cu mm ²	Al mm ²	Crimp. width mm	Order No.
5	6	-	7	1501530000
6 / 16	10 / 70	- / 50	7 / 5	1501540000
8 / 12	16 / 35	- / 16+25	12 / 5	1501550000
10 / 14	25 / 50	10 / 35	12 / 5	1501570000
18	95	70	5	1501580000
20	120	-	5	1501590000
22	150	95+120	5	1501600000
25	185	150	5	1501620000

**Indent Crimping inserts**

- for compression terminals DIN 46234
- pin cable lugs DIN 46230
- connector DIN 46341 part 1

Ordering data

mm ²	Crimp. width mm	Order No.
6	6	1501630000
10	8	1501640000
16	10	1501650000
25	12	1501670000
35	12	1501680000
50	12	1501690000
70	12	1501700000
95	12	1501720000
120	12	1501730000

**Crimping inserts**

- for insulated compression terminals

Ordering data

mm ²	Crimp. width mm	Order No.
10	7	1501740000
16	7	1501750000
25	10	1501770000
35	10	1501780000
50	10	1501790000
70	7	1502250000

**Crimping inserts square-shape**

- for insulated and non insulated wire-end ferrules
- crimping width 19 mm

Ordering data

mm ²	Crimp. width mm	Order No.
6	19	1502270000
10	19	1502280000
16	19	1502290000
25	19	1502300000
35	19	1502320000
50	19	1502330000
70	19	1502340000
95	19	1502370000
120	19	1502380000



Crimping tools APG 80 and HPG 80

Battery-powered compression tool APG 80

Battery-powered hydraulic compression tool for crimping cable lugs and connectors up to 300 mm².

- extremely quick processing due to a two-stage hydraulic pump
- wide application range up to 300 mm²
- 360° revolving head with quick opening and closing
- Pressure-relief-button in one-hand operation is able to press from both sides. (for right-and left handed persons)
- suitable for cutting cables up to 28 mm outside diameter
- integrated overpressure valve, in case of wrong pressings, no damage of tools or inserts
- lithium-ionen-battery without memory effect, self-discharges very low
- high capacity due to 3.0 Ah-battery
- fastening eye for balance and carrying strap available
- ergonomic handle with a balanced weight distribution for sure work free of tiredness
- case, handle shell and pressure discharge key completely from isolated and push-firm plastic material
- universal usage: dies for all versions of cable lugs and connectors are available
- integrated electronic module for:
 - permanent accumulator-loading state control
 - supervision of the working process and state announcement
 - announcement of the next service intervall
 - mistake announcement at possible disturbances

APG 80

6...300 mm²



Included in delivery

- Battery-powered compression tool with battery and battery charger
- supporting loop for transport and safety
- transport plastic case



Technical data

Description of contact	
Press capacity	kN
Operating voltage	
Battery charger	
Time of loading	
Tool data	
Dimensions (w x l x h) / Weight	mm/kg
Note	

Ordering data

Version
Note

Accessories

Note

APG 80	
approx. 80	
14.4 Volt	
220-240 V, 50-60 Hz, 7.2-18 V	
approx. 50 minutes	
95 x 406 x 310 / 5.4 (incl. battery)	

Type	Qty.	Order No.
APG 80	1	1502390000
APG 80 120 V	1	1508820000

Type	Qty.	Order No.
Ersatz Akku APG	1	1502140000
Ladegerät APG	1	1502170000
Ladegerät APG 120 V	1	1509390000

Hand-operated hydraulic compression tool HPG 80

hand-operated hydraulic compression tool for crimping cable lugs and connectors up to 300 mm².

- extremely quick processing due to a two-stage hydraulic pump
- wide application range up to 300 mm²
- 360° revolving head with quick opening and closing
- integrated pressure relief valve, false pressings cause no damage at tool nor dies
- universal usage: dies for all versions of cable lugs are available

HPG 80

6...300 mm²



- Included in delivery
- transport plastic case



Technical data

Description of contact	
Press capacity	kN
Tool data	
Dimensions (Length) / Weight	mm/kg
Note	

APG 80		
approx. 80		
550 / 5.3		

Ordering data

Version	
Note	
Accessories	
Note	

Type	Qty.	Order No.
APG 80	1	1502420000
Type	Qty.	Order No.

Crimping inserts – APG 80 and HPG 80

Crimping inserts WM-shape

- for crimping cable lugs and connectors of the euro-series

Ordering data

mm ²	Crimp. width mm	Order No.
6	7	1502430000
10	7	1502440000
16	7	1502470000
25	12	1502480000
35	12	1502490000
50	12	1502500000
70	12	1502520000
95	12	1502530000
120	12	1502540000
150	5	1502550000
185	5	1502570000
240	7	1502580000
300	7	1502590000



Crimping inserts hexagonal-shape

- for crimping compression copper cable lugs DIN 46 235
- compression copper connectors DIN 46 267 part 1
- aluminium and aluminium/copper cable lugs and connectors

Ordering data

Code no.	Cu mm ²	Al mm ²	Crimp. width mm	Order No.
5	6	-	7	1502600000
6	10	-	7	1502620000
8	16	-	12	1502630000
10	25	16	12	1502640000
12	35	25	12	1502650000
14	50	35	12	1502670000
16	70	50	12	1502680000
18	95	70	10	1502690000
20	120	-	10	1502700000
22	150	95 + 120	5	1502720000
25	185	150	5	1502730000
28	240	185	5	1502740000
32	300	240	7	1502750000
34	-	300	13	1502780000



Indent Crimping inserts

- for compression terminals DIN 46234
- pin cable lugs DIN 46230
- connector DIN 46341 part 1

Ordering data

mm ²	Crimp. width mm	Order No.
6	6	1502820000
10	8	1502830000
16	10	1502840000
25	11	1502850000
35	11	1502870000
50	16	1502880000
70	16	1502890000
95	16	1502900000
120	16	1502790000
150	16	1502800000
185	8	1501800000
240	8	1501820000



Crimping inserts

- for insulated compression terminals

Ordering data

mm ²	Crimp. width mm	Order No.
10	7	1501830000
16	7	1501840000



Crimping inserts square-shape

- for insulated and non insulated wire-end ferrules
- crimping width 24 mm (10...120 mm²)
- crimping width 38 mm (150...240 mm²)

Ordering data

mm ²	Crimp. width mm	Order No.
10	24	1502000000
16	24	1502020000
25	24	1502030000
35	24	1502040000
50	24	1502050000
70	24	1502070000
95	24	1502080000
120	24	1502090000
150	38	1502100000
185	38	1502120000
240	38	1502130000

**Prerounding die sets**

- for rounding sector-shaped copper and aluminium conductors crimping width:

sm = stranded conductors

se = solid conductors

Ordering data

mm ² sm	mm ² se	Crimp. width mm	Order No.
10	-	16	1501850000
16	-	16	1501870000
25	35	16	1501880000
35	50	16	1501890000
50	70	16	1501900000
70	95	16	1501920000
95	120	16	1501930000
120	150	16	1501940000
150	185	16	1501970000
185	240	16	1501980000
240	300	16	1501990000



Battery-powered hydraulic cable cutter AKT 50

Battery-powered hydraulic cable cutter AKT 50

for cut of fine wiring aluminium and copper cables (without steel insertion) up to 50 mm outside diameter

- extremely quick processing due to a two-stage hydraulic pump
- 360° revolving head with quick opening and closing
- Pressure-relief-button in one-hand operation is able to press from both sides. (for right-and left handed persons)
- lithium-ionen-battery without memory effect, self-discharges very low
- high capacity due to 3.0 Ah-battery
- fastening eye for balance and carrying strap available
- ergonomic handle with a balanced weight distribution for sure work free of tiredness
- case, handle shell and pressure discharge key completely from isolated and push-firm plastic material
- integrated electronic module for:
 - permanent accumulator-loading state control
 - supervision of the working process and state announcement
 - announcement of the next service intervall
 - mistake announcement at possible disturbances

AKT 50

Ø 6 ... 50 mm



Included in delivery

- cable cutter, Battery, battery charger
- supporting loop for transport and safety
- transport plastic case



Technical data

Description of contact	
Cutting force	kN
Operating voltage	
Battery charger	
Time of loading	
Tool data	
Dimensions (w x l x h) / Weight	mm/kg
Note	

AKT 50		
	approx. 60	
	14,4 Volt	
	220-240 V, 50-60 Hz, 7,2-18 V	
	approx. 50 minutes	
	95 x 465 x 310 / 4,9 (incl. battery)	

Ordering data

Version
Note

Type	Qty.	Order No.
AKT 50	1	1502190000

Accessories

Note

Type	Qty.	Order No.

AKKU APG



Technical data

Replacement battery - Li-Ion	14.4 V, 3.0 Ah
Weight	0.56 kg

Ordering data

Type	Qty.	Order No.
Battery APG	1	1502140000

BATTERY CHARGER APG



Standard-battery charger	220-240 V 50-60 Hz
Voltage range	7.2-18 V
Time of loading	approx. 50 minutes
Weight	0.55 kg

Ordering data

Type	Qty.	Order No.
Ladegerät APG	1	1502170000
Ladegerät APG 120 V	1	1509390000

AKKU EPG 45



Replacement battery - Li-Ion for EPG 45	18 V, 1,5 Ah
Weight	0,41 kg

Ordering data

Type	Qty.	Order No.
AKKU EPG 45	1	1500840000

BATTERY CHARGER EPG



Standard-Battery charger	220-240 V 50-60 Hz
Voltage range	7.2-18 V
Time of loading	approx. 50 minutes
Weight	0.55 kg

Ordering data

Type	Qty.	Order No.
Ladegerät EPG	1	1509370000
Ladegerät EPG 120 V	1	1509380000

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AKKU APG	1502140000	B.24
AKKU APG	1502140000	B.21
AKKU EPG 45	1500840000	B.29
AKKU EPG 45	1500840000	B.15
AKT 50	1502190000	B.28
APG 55	1501390000	B.21
APG 55 120V	1508790000	B.21
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APG 80 120V	1508820000	B.2

C		
CTI 6	9006120000	B.8
CTI 6 G	9202850000	B.8
CTI 6 G ZERT	1292880000	B.8
CTI 6 ZERT	9017290000	B.8
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EINSATZ MTR 160 10DIN	9021300000	B.20
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EINSATZ MTR 160 50WM	9021770000	B.20
EINSATZ MTR 160 70DIN	9021350000	B.20
EINSATZ MTR 160 70HEX	9020950000	B.20
EINSATZ MTR 160 70WM	9021780000	B.20
EINSATZ MTR 160 95DIN	9021360000	B.20
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EINSATZP.HEX1200MM	9022300000	B.20
EINSATZP.HEX150QMM	9022310000	B.20
EINSATZP.HEX160MM	9021440000	B.20
EINSATZP.HEX1850MM	9022320000	B.20
EINSATZP.HEX240QMM	9022330000	B.20
EINSATZP.HEX250QMM	9021450000	B.20
EINSATZP.HEX300QMM	9022340000	B.20
EINSATZP.HEX350QMM	9021460000	B.20
EINSATZP.HEX500QMM	9021470000	B.20
EINSATZP.HEX700QMM	9021480000	B.20
EINSATZP.HEX950QMM	9022290000	B.20
EINSATZP.WM 10+250MM	9024010000	B.20
EINSATZP.WM 1200MM	9025210000	B.20
EINSATZP.WM 1500MM	9025220000	B.20
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EINSATZPAAR ISO 160MM	9016190000	B.20
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EINSATZPAAR ISO 350QMM	9016210000	B.20
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ES APG/HPG55 AEH 70	1502340000	B.23
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ES APG/HPG80 DIN 185	1501800000	B.26
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ES APG/HPG80 DIN 25	1502850000	B.26
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HBT 6,0 - 4,6 GE	1216230000	A.31
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HTN 21 M. AN ZERT	9017170000	B.9
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KP-M10/-16	1497950000	A.13
KP-M10/-185	1498350000	A.14
KP-M10/-240	1498390000	A.14
KP-M10/-25	1497990000	A.13
KP-M10/-300	1498440000	A.14
KP-M10/-35	1498040000	A.13
KP-M10/-50	1498080000	A.13
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KQJ-M5/-0,5	1492120000	A.23	KQN-M5/-16	1494070000	A.18	KRN-M4/-10	1496900000	A.5	KWN-M12/-25 45	1496210000	A.10
KQJ-M5/-1	1492220000	A.23	KQN-M5/-2,5	1493890000	A.17	KRN-M4/-2,5	1495090000	A.5	KWN-M12/-25 90	1495890000	A.8
KQJ-M5/-10	1492430000	A.23	KQN-M5/-25	1494120000	A.18	KRN-M4/-4	1495130000	A.5	KWN-M12/-300 90	1497300000	A.9
KQJ-M5/-16	1492480000	A.23	KQN-M5/-6	1493960000	A.17	KRN-M4/-6	1497150000	A.5	KWN-M12/-35 45	1496250000	A.10
KQJ-M5/2,5	1492310000	A.23	KQN-M5/S/-1	1493780000	A.17	KRN-M5/-0,75	1495030000	A.5	KWN-M12/-35 90	1495940000	A.8
KQJ-M5/-6	1492380000	A.23	KQN-M5/S/2,5	1493870000	A.17	KRN-M5/-1,5	1495070000	A.5	KWN-M12/-50 45	1496300000	A.10
KQJ-M5/S/-1	1492210000	A.23	KQN-M6/-1	1493800000	A.17	KRN-M5/-10	1496910000	A.5	KWN-M12/-50 90	1495990000	A.9
KQJ-M5/S/2,5	1492300000	A.23	KQN-M6/-10	1494030000	A.18	KRN-M5/-16	1496970000	A.5	KWN-M12/-6 90	1496170000	A.8
KQJ-M6/-1	1492230000	A.23	KQN-M6/-16	1494080000	A.18	KRN-M5/-2,5	1495100000	A.5	KWN-M12/-70 45	1496330000	A.10
KQJ-M6/-10	1492440000	A.23	KQN-M6/2,5	1493900000	A.17	KRN-M5/-25	1495830000	A.5	KWN-M12/-70 90	1496040000	A.9
KQJ-M6/-16	1492490000	A.23	KQN-M6/25	1494130000	A.18	KRN-M5/-4	1495140000	A.5	KWN-M12/95 45	1496370000	A.10
KQJ-M6/2,5	1492320000	A.23	KQN-M6/35	1494170000	A.18	KRN-M5/-6	1497170000	A.5	KWN-M12/95 90	1496100000	A.9
KQJ-M6/-6	1492390000	A.23	KQN-M6/-50	1493510000	A.18	KRN-M6/-1,5	1495080000	A.5	KWN-M14/-25 90	1495900000	A.8
KQJ-M8/-1	1492400000	A.23	KQN-M6/-6	1493970000	A.17	KRN-M6/-10	1496920000	A.5	KWN-M14/-35 90	1494640000	A.8
KQJ-M8/-10	1492450000	A.23	KQN-M6/-70	1493190000	A.18	KRN-M6/-120 S	1494410000	A.7	KWN-M14/50 90	1494650000	A.9
KQJ-M8/-16	1492500000	A.23	KQN-M8/-1	1493810000	A.17	KRN-M6/-150 S	1494440000	A.7	KWN-M14/-70 90	1494680000	A.9
KQJ-M8/2,5	1492330000	A.23	KQN-M8/-10	1494040000	A.18	KRN-M6/-16	1496980000	A.5	KWN-M14/95 90	1494670000	A.9
KQJ-M8/-6	1492400000	A.23	KQN-M8/-120	1493320000	A.18	KRN-M6/2,5	1495110000	A.5	KWN-M16/-120 45	1496420000	A.10
KQNG-M3,5/-1	1493550000	A.19	KQN-M8/-16	1494090000	A.18	KRN-M6/25	1496490000	A.5	KWN-M16/-120 90	1494480000	A.9
KQNG-M3,5/2,5	1493610000	A.19	KQN-M8/-2,5	1493910000	A.17	KRN-M6/-35	1496540000	A.6	KWN-M16/-150	1496470000	A.10
KQNG-M3/-1	1493540000	A.19	KQN-M8/-25	1494140000	A.18	KRN-M6/-35 S	1494790000	A.7	KWN-M16/-150 45	1496450000	A.10
KQNG-M3/2,5	1493600000	A.19	KQN-M8/35	1494180000	A.18	KRN-M6/-4	1495150000	A.5	KWN-M16/-150 90	1494520000	A.9
KQNG-M4/-1	1493570000	A.19	KQN-M8/50	1493150000	A.18	KRN-M6/50	1496590000	A.6	KWN-M16/-185 45	1495370000	A.10
KQNG-M4/2,5	1493630000	A.19	KQN-M8/6	1493980000	A.17	KRN-M6/50 S	1494820000	A.7	KWN-M16/-185 90	1494570000	A.9
KQNG-M4/-6	1493660000	A.19	KQN-M8/-70	1493210000	A.18	KRN-M6/-6	1497180000	A.5	KWN-M16/240 45	1495410000	A.10
KQNG-M4/S/-1	1493560000	A.19	KQN-M8/-95	1493260000	A.18	KRN-M6/-70	1496640000	A.6	KWN-M16/240 90	1494620000	A.9
KQNG-M4/S/2,5	1493620000	A.19	KRN-M10/-10	1496940000	A.5	KRN-M6/70 S	1494850000	A.7	KWN-M16/-300 90	1497310000	A.9
KQNG-M5/-1	1493580000	A.19	KRN-M10/-120	1496500000	A.6	KRN-M6/95	1495820000	A.6	KWN-M16/35 90	1494690000	A.8
KQNG-M5/10	1492680000	A.19	KRN-M10/-120 S	1494920000	A.7	KRN-M6/95 S	1494430000	A.7	KWN-M16/50 90	1496000000	A.9
KQNG-M5/2,5	1493640000	A.19	KRN-M10/-150	1495710000	A.6	KRN-M8/-10	1496930000	A.5	KWN-M16/-70 90	1496050000	A.9
KQNG-M5/-6	1492650000	A.19	KRN-M10/-150 S	1494950000	A.7	KRN-M8/-120	1495790000	A.6	KWN-M16/-95 45	1496380000	A.10
KQNG-M6/-1	1493590000	A.19	KRN-M10/-16	1497000000	A.5	KRN-M8/-120 S	1494420000	A.7	KWN-M16/-95 90	1496110000	A.9
KQNG-M6/-10	1492690000	A.19	KRN-M10/-185	1495430000	A.6	KRN-M8/-150	1495700000	A.6	KWN-M20/-150 45	1494680000	A.10
KQNG-M6/-16	1492700000	A.19	KRN-M10/-185 S	1494980000	A.7	KRN-M8/-150 S	1494940000	A.7	KWN-M20/-150 90	1494530000	A.9
KQNG-M6/2,5	1493650000	A.19	KRN-M10/240	1495490000	A.6	KRN-M8/-16	1496990000	A.5	KWN-M20/-185 45	1495380000	A.10
KQNG-M6/-6	1492660000	A.19	KRN-M10/240 S	1494340000	A.7	KRN-M8/-185	1497290000	A.6	KWN-M20/-185 90	1494580000	A.9
KQNG-M8/-16	1492710000	A.19	KRN-M10/25	1496510000	A.5	KRN-M8/2,5	1495120000	A.5	KWN-M20/240 45	1495420000	A.10
KQNG-M8/-6	1492670000	A.19	KRN-M10/300	1495530000	A.6	KRN-M8/240	1495480000	A.6	KWN-M20/240 90	1494630000	A.9
KQN-M10/-1	1493710000	A.17	KRN-M10/300 S	1494380000	A.7	KRN-M8/25	1496500000	A.5	KWN-M20/300 90	1497320000	A.9
KQN-M10/-10	1494050000	A.18	KRN-M10/35	1496570000	A.6	KRN-M8/35	1496550000	A.6	KWN-M20/50 90	1494710000	A.9
KQN-M10/120	1493330000	A.18	KRN-M10/50	1496610000	A.6	KRN-M8/35 S	1494810000	A.7	KWN-M20/70 90	1496070000	A.9
KQN-M10/150	1493370000	A.18	KRN-M10/50 S	1494840000	A.7	KRN-M8/4	1495170000	A.5	KWN-M3/0,75 90	1495180000	A.8
KQN-M10/-16	1494100000	A.18	KRN-M10/-6	1497200000	A.5	KRN-M8/-50	1496600000	A.6	KWN-M3/-1,5 90	1495210000	A.8
KQN-M10/-185	1493420000	A.18	KRN-M10/-70	1496700000	A.6	KRN-M8/-50 S	1494830000	A.7	KWN-M4/0,75 90	1495190000	A.8
KQN-M10/2,5	1493930000	A.17	KRN-M10/-70 S	1494870000	A.7	KRN-M8/-6	1497190000	A.5	KWN-M4/-1,5 90	1495220000	A.8
KQN-M10/240	1493460000	A.18	KRN-M10/95	1495610000	A.6	KRN-M8/70	1496650000	A.6	KWN-M4/2,5 90	1495250000	A.8
KQN-M10/25	1494150000	A.18	KRN-M10/95 S	1494900000	A.7	KRN-M8/70 S	1494860000	A.7	KWN-M4/4 90	1495300000	A.8
KQN-M10/35	1494190000	A.18	KRN-M12/-10	1496950000	A.5	KRN-M8/95	1495600000	A.6	KWN-M5/0,75 90	1495200000	A.8
KQN-M10/50	1493160000	A.18	KRN-M12/120	1495670000	A.6	KRN-M8/95 S	1494890000	A.7	KWN-M5/-1,5 90	1495230000	A.8
KQN-M10/-6	1493990000	A.17	KRN-M12/-120 S	1494930000	A.7	KSI/0,10,5	1491370000	A.25	KWN-M5/-10 45	1496810000	A.10
KQN-M10/70	1493220000	A.18	KRN-M12/-150	1495720000	A.6	KSI/0,5-1,0	1491380000	A.25	KWN-M5/-10 90	1497020000	A.8
KQN-M10/95	1493270000	A.18	KRN-M12/-150 S	1494970000	A.7	KSI/1,5-2,5	1491410000	A.25	KWN-M5/-16 45	1496850000	A.10
KQN-M12/-10	1494060000	A.18	KRN-M12/16	1497010000	A.5	KSI/1,5-2,5	1491390000	A.25	KWN-M5/-16 90	1497080000	A.8
KQN-M12/-120	1493340000	A.18	KRN-M12/185	1495440000	A.6	KSI/-10	1491430000	A.25	KWN-M5/2,5 90	1495270000	A.8
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KQN-M12/-16	1494110000	A.18	KRN-M12/240	1495500000	A.6	KSI/4,0-6,0	1491420000	A.25	KWN-M5/-6	1496120000	A.8
KQN-M12/-185	1493430000	A.18	KRN-M12/240 S	1494350000	A.7	KSN/0,1-0,5	1492720000	A.20	KWN-M5/-6 90	1497220000	A.8
KQN-M12/2,5	1493940000	A.17	KRN-M12/25	1496520000	A.5	KSN/0,5-1,0	1492730000	A.20	KWN-M6/-1,5 90	1495240000	A.8
KQN-M12/240	1493470000	A.18	KRN-M12/300	1495540000	A.6	KSN/1,5-2,5	1492740000	A.20	KWN-M6/-10 45	1496820000	A.10
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KQN-M12/35	1493130000	A.18	KRN-M12/35	1496580000	A.6	KSN/-16	1492790000	A.20	KWN-M6/-16 45	1496870000	A.10
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KQN-M12/-6	1494000000	A.17	KRN-M12/-6	1497210000	A.5	KSN/2,5	1492800000	A.20	KWN-M6/2,5 90	1495280000	A.8
KQN-M12/70	1493230000	A.18	KRN-M12/-70	1495570000	A.6	KSN/35	1492810000	A.20	KWN-M6/25 45	1496180000	A.10
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KQN-M16/-120	1493350000	A.18	KRN-M12/95	1495620000	A.6	KSN/6,0	1492770000	A.20	KWN-M6/35 45	1496220000	A.10
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KQN-M16/-240	1493480000	A.18	KRN-M14/-150	1495810000	A.6	KWN-M10/-10 45	1496840000	A.10	KWN-M6/50 45	1496270000	A.10
KQN-M16/25	1493490000	A.18	KRN-M14/-185	1497250000	A.6	KWN-M10/-10 90	1497050000	A.8	KWN-M6/50 90	1495950000	A.9
KQN-M16/35	1493140000	A.18	KRN-M14/240	1497270000	A.6	KWN-M10/-120 45	1496400000	A.10	KWN-M6/-6 90	1496130000	A.8
KQN-M16/50	1493180000	A.18	KRN-M14/25	1496530000	A.5	KWN-M10/-120 90	1494450000	A.9	KWN-M6/70 90	1496010000	A.9
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KQN-M20/-185	1493450000	A.18	KRN-M16/-185 S	1495000000	A.7	KWN-M10/25 45	1496200000	A.10	KWN-M8/-16 90	1497100000	A.8
KQN-M20/35	1493520000	A.18	KRN-M16/-240	1495510000	A.6	KWN-M10/25 90	1495880000	A.8	KWN-M8/2,5 90	1495290000	A.8
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KQN-M20/70	1493250000	A.18	KRN-M16/300	1495550000	A.6	KWN-M10/35 90	1495930000	A.8	KWN-M8/25 90	1495870000	A.8
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LADEGERAET EPG 45 120V	1509380000	B.15

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VSTN/-70	1494760000	A.11
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1491670000	VFSKHI/0,5-1,0/488	A.27
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1492100000	KQI-M3/-0,5	A.23
1492110000	KQI-M4/-0,5	A.23
1492120000	KQI-M5/-0,5	A.23

1492130000	KQI-M10/-1	A.23
1492140000	KQI-M2/-1	A.23
1492150000	KQI-M2,5/-1	A.23
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1492200000	KQI-M4/-1	A.23
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1492540000	KQIG-M4/S/-1	A.24
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1492580000	KQIG-M5/-1	A.24
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1492610000	KQIG-M3,5/2,5	A.24
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1492660000	KQNG-M6/-6	A.19
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1492700000	KQNG-M6/-16	A.19
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1492730000	KSN/0,5-1,0	A.20
1492740000	KSN/1,5-2,5	A.20
1492750000	KSN/2,5	A.20
1492770000	KSN/-6,0	A.20
1492780000	KSN/-10	A.20
1492790000	KSN/-16	A.20
1492800000	KSN/25	A.20
1492810000	KSN/35	A.20
1492820000	KSN/-50	A.20
1492830000	KSN/-70	A.20
1492840000	KSN/-95	A.20
1492850000	VPLN/0,1-0,5	A.21
1492860000	VPLN/0,5-1,0	A.21
1492870000	VPLN/1,5-2,5	A.21
1492880000	VPLN/4-6,0	A.21
1492890000	VPLN/-10	A.21
1492900000	VPLN/-16	A.21
1492910000	VPLN/25	A.21
1492920000	VPLN/35	A.21
1492930000	VPLN/50	A.21
1492940000	VPLN/-70	A.21
1492950000	VPLN/95	A.21
1492960000	VPLN/-120	A.21
1492970000	VPLN/-150	A.21
1492980000	VSTN/0,1-0,5	A.21
1492990000	VSTN/0,5-10	A.21
1493010000	VSTN/1,5-2,5	A.21
1493020000	VSTN/4-6	A.21
1493030000	VSTN/10	A.21
1493040000	VSTN/16	A.21
1493050000	VSTN/25	A.21
1493060000	VSTN/35	A.21
1493070000	VSTN/50	A.21
1493080000	VSTN/70	A.21
1493090000	VSTN/95	A.21
1493110000	VSTN/120	A.21
1493120000	VSTN/150	A.21
1493130000	KQN-M12/35	A.18
1493140000	KQN-M16/35	A.18
1493150000	KQN-M8/50	A.18
1493160000	KQN-M10/50	A.18
1493170000	KQN-M12/50	A.18
1493180000	KQN-M16/50	A.18
1493190000	KQN-M6/70	A.18
1493210000	KQN-M8/70	A.18

1493220000	KQN-M10/70	A.18
1493230000	KQN-M12/70	A.18
1493240000	KQN-M16/70	A.18
1493250000	KQN-M20/70	A.18
1493260000	KQN-M8/95	A.18
1493270000	KQN-M10/95	A.18
1493280000	KQN-M12/95	A.18
1493290000	KQN-M16/95	A.18
1493310000	KQN-M20/95	A.18
1493320000	KQN-M8/120	A.18
1493330000	KQN-M10/120	A.18
1493340000	KQN-M12/120	A.18
1493350000	KQN-M16/120	A.18
1493360000	KQN-M20/120	A.18
1493370000	KQN-M10/150	A.18
1493380000	KQN-M12/150	A.18
1493390000	KQN-M16/150	A.18
1493410000	KQN-M20/150	A.18
1493420000	KQN-M10/185	A.18
1493430000	KQN-M12/185	A.18
1493440000	KQN-M16/185	A.18
1493450000	KQN-M20/185	A.18
1493460000	KQN-M10/240	A.18
1493470000	KQN-M12/240	A.18
1493480000	KQN-M16/240	A.18
1493490000	KQN-M16/25	A.18
1493510000	KQN-M6/50	A.18
1493520000	KQN-M20/35	A.18
1493530000	KQN-M20/50	A.18
1493540000	KQNG-M3/-1	A.19
1493550000	KQNG-M3,5/-1	A.19
1493560000	KQNG-M4/S/-1	A.19
1493570000	KQNG-M4/-1	A.19
1493580000	KQNG-M5/-1	A.19
1493590000	KQNG-M6/-1	A.19
1493600000	KQNG-M3/2,5	A.19
1493610000	KQNG-M3,5/2,5	A.19
1493620000	KQNG-M4/S/2,5	A.19
1493630000	KQNG-M4/2,5	A.19
1493640000	KQNG-M5/2,5	A.19
1493650000	KQNG-M6/2,5	A.19
1493660000	KQNG-M4/-6	A.19
1493670000	KQN-M2/0,5	A.17
1493680000	KQN-M3/0,5	A.17
1493690000	KQN-M4/0,5	A.17
1493700000	KQN-M5/0,5	A.17
1493710000	KQN-M10/-1	A.17
1493720000	KQN-M2/-1	A.17
1493730000	KQN-M2,5/-1	A.17
1493740000	KQN-M3/-1	A.17
1493750000	KQN-M3,5/-1	A.17
1493760000	KQN-M4/S/-1	A.17
1493770000	KQN-M4/-1	A.17
1493780000	KQN-M5/S/-1	A.17
1493790000	KQN-M5/-1	A.17
1493800000	KQN-M6/-1	A.17
1493810000	KQN-M8/-1	A.17
1493820000	KQN-M3/2,5	A.17
1493830000	KQN-M3,5/2,5	A.17
1493840000	KQN-M4/S/2,5	A.17
1493850000	KQN-M4/2,5	A.17
1493870000	KQN-M5/S/2,5	A.17
1493890000	KQN-M5/2,5	A.17
1493900000	KQN-M6/2,5	A.17
1493910000	KQN-M8/2,5	A.17
1493930000	KQN-M10/2,5	A.17
1493940000	KQN-M12/2,5	A.17
1493950000	KQN-M4/-6	A.17
1493960000	KQN-M5/-6	A.17
1493970000	KQN-M6/-6	A.17
1493980000	KQN-M8/-6	A.17
1493990000	KQN-M10/-6	A.17
1494000000	KQN-M12/-6	A.17
1494010000	KQN-M4/-10	A.18
1494020000	KQN-M5/-10	A.18
1494030000	KQN-M6/-10	A.18
1494040000	KQN-M8/-10	A.18
1494050000	KQN-M10/-10	A.18
1494060000	KQN-M12/-10	A.18
1494070000	KQN-M5/-16	A.18
1494080000	KQN-M6/-16	A.18
1494090000	KQN-M8/-16	A.18
1494100000	KQN-M10/-16	A.18
1494110000	KQN-M12/-16	A.18
1494120000	KQN-M5/25	A.18
1494130000	KQN-M6/25	A.18
1494140000	KQN-M8/25	A.18
1494150000	KQN-M10/25	A.18
1494160000	KQN-M12/25	A.18
1494170000	KQN-M6/35	A.18
1494180000	KQN-M8/35	A.18
1494190000	KQN-M10/35	A.18
1494340000	KRN-M10/240 S	A.7
1494350000	KRN-M12/240 S	A.7
1494370000	KRN-M16/240 S	A.7
1494380000	KRN-M10/300 S	A.7
1494390000	KRN-M12/300 S	A.7
1494400000	KRN-M16/300 S	A.7
1494410000	KRN-M6/120 S	A.7

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1494420000	KRN-M8/120 S	A.7
1494430000	KRN-M6/95 S	A.7
1494440000	KRN-M6/150 S	A.7
1494450000	KWN-M10/120 90	A.9
1494470000	KWN-M12/120 90	A.9
1494480000	KWN-M16/120 90	A.9
1494490000	KWN-M8/150 90	A.9
1494500000	KWN-M10/150 90	A.9
1494510000	KWN-M12/150 90	A.9
1494520000	KWN-M16/150 90	A.9
1494530000	KWN-M20/150 90	A.9
1494540000	KWN-M10/185 90	A.9
1494550000	KWN-M12/185 90	A.9
1494570000	KWN-M16/185 90	A.9
1494580000	KWN-M20/185 90	A.9
1494590000	KWN-M10/240 90	A.9
1494610000	KWN-M12/240 90	A.9
1494620000	KWN-M16/240 90	A.9
1494630000	KWN-M20/240 90	A.9
1494640000	KWN-M14/35 90	A.8
1494650000	KWN-M14/50 90	A.9
1494660000	KWN-M14/70 90	A.9
1494670000	KWN-M14/95 90	A.9
1494680000	KWN-M8/120 90	A.9
1494690000	KWN-M16/35 90	A.8
1494710000	KWN-M20/50 90	A.9
1494720000	VSTN/6	A.11
1494730000	VSTN/25	A.11
1494740000	VSTN/35	A.11
1494750000	VSTN/50	A.11
1494760000	VSTN/70	A.11
1494770000	VSTN/95	A.11
1494780000	VSTN/120	A.11
1494790000	KRN-M6/35 S	A.7
1494810000	KRN-M8/35 S	A.7
1494820000	KRN-M6/50 S	A.7
1494830000	KRN-M8/50 S	A.7
1494840000	KRN-M10/50 S	A.7
1494850000	KRN-M6/70 S	A.7
1494860000	KRN-M8/70 S	A.7
1494870000	KRN-M10/70 S	A.7
1494880000	KRN-M12/70 S	A.7
1494890000	KRN-M8/95 S	A.7
1494900000	KRN-M10/95 S	A.7
1494910000	KRN-M12/95 S	A.7
1494920000	KRN-M10/120 S	A.7
1494930000	KRN-M12/120 S	A.7
1494940000	KRN-M8/150 S	A.7
1494950000	KRN-M10/150 S	A.7
1494970000	KRN-M12/150 S	A.7
1494980000	KRN-M10/185 S	A.7
1494990000	KRN-M12/185 S	A.7
1495000000	KRN-M16/185 S	A.7
1495010000	KRN-M3/0,75	A.5
1495020000	KRN-M4/0,75	A.5
1495030000	KRN-M5/0,75	A.5
1495040000	KRN-M3/1,5	A.5
1495050000	KRN-M4/1,5	A.5
1495070000	KRN-M5/1,5	A.5
1495080000	KRN-M6/1,5	A.5
1495090000	KRN-M4/2,5	A.5
1495100000	KRN-M5/2,5	A.5
1495110000	KRN-M6/2,5	A.5
1495120000	KRN-M8/2,5	A.5
1495130000	KRN-M4/4	A.5
1495140000	KRN-M5/4	A.5
1495150000	KRN-M6/4	A.5
1495170000	KRN-M8/4	A.5
1495180000	KWN-M3/0,75 90	A.8
1495190000	KWN-M4/0,75 90	A.8
1495200000	KWN-M5/0,75 90	A.8
1495210000	KWN-M3/1,5 90	A.8
1495220000	KWN-M4/1,5 90	A.8
1495230000	KWN-M5/1,5 90	A.8
1495240000	KWN-M6/1,5 90	A.8
1495250000	KWN-M4/2,5 90	A.8
1495270000	KWN-M5/2,5 90	A.8
1495280000	KWN-M6/2,5 90	A.8
1495290000	KWN-M8/2,5 90	A.8
1495300000	KRN-M4/4 90	A.8
1495310000	KWN-M5/4 90	A.8
1495320000	KRN-M6/4 90	A.8
1495330000	KWN-M8/4 90	A.8
1495340000	KWN-M10/185 45	A.10
1495350000	KWN-M12/185 45	A.10
1495370000	KWN-M16/185 45	A.10
1495380000	KWN-M20/185 45	A.10
1495400000	KWN-M12/240 45	A.10
1495410000	KWN-M16/240 45	A.10
1495420000	KWN-M20/240 45	A.10
1495430000	KRN-M10/185	A.6
1495440000	KRN-M12/185	A.6
1495450000	KRN-M16/185	A.6
1495470000	KRN-M20/185	A.6
1495480000	KRN-M8/240	A.6
1495490000	KRN-M10/240	A.6
1495500000	KRN-M12/240	A.6
1495510000	KRN-M16/240	A.6
1495520000	KRN-M20/240	A.6

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1495530000	KRN-M10/-300	A.6
1495540000	KRN-M12/-300	A.6
1495550000	KRN-M16/-300	A.6
1495670000	KRN-M12/-70	A.6
1495680000	KRN-M16/-70	A.6
1495690000	KRN-M20/-70	A.6
1495600000	KRN-M8-/95	A.6
1495610000	KRN-M10-/95	A.6
1495620000	KRN-M12-/95	A.6
1495630000	KRN-M16-/95	A.6
1495640000	KRN-M20-/95	A.6
1495650000	KRN-M10/-120	A.6
1495670000	KRN-M12/-120	A.6
1495680000	KRN-M16/-120	A.6
1495690000	KRN-M20/-120	A.6
1495700000	KRN-M8-/150	A.6
1495710000	KRN-M10/-150	A.6
1495720000	KRN-M12/-150	A.6
1495730000	KRN-M16-/150	A.6
1495740000	KRN-M20/-150	A.6
1495750000	KRN-M14/-50	A.6
1495770000	KRN-M14/-70	A.6
1495780000	KRN-M14-/95	A.6
1495790000	KRN-M8-/120	A.6
1495800000	KRN-M14/-120	A.6
1495810000	KRN-M14/-150	A.6
1495820000	KRN-M6-/95	A.6
1495830000	KRN-M5-/25	A.5
1495840000	KRN-M20/-50	A.6
1495850000	KWN-M6-/25 90	A.8
1495870000	KWN-M8-/25 90	A.8
1495880000	KWN-M10-/25 90	A.8
1495890000	KWN-M12-/25 90	A.8
1495900000	KWN-M14-/25 90	A.8
1495910000	KWN-M6-/35 90	A.8
1495920000	KWN-M8-/35 90	A.8
1495930000	KWN-M10-/35 90	A.8
1495940000	KWN-M12-/35 90	A.8
1495950000	KWN-M6-/50 90	A.9
1495970000	KWN-M8-/50 90	A.9
1495980000	KWN-M10-/50 90	A.9
1495990000	KWN-M12-/50 90	A.9
1496000000	KWN-M16-/50 90	A.9
1496010000	KWN-M6-/70 90	A.9
1496020000	KWN-M8-/70 90	A.9
1496030000	KWN-M10-/70 90	A.9
1496040000	KWN-M12-/70 90	A.9
1496050000	KWN-M16-/70 90	A.9
1496070000	KWN-M20-/70 90	A.9
1496080000	KWN-M8-/95 90	A.9
1496090000	KWN-M10-/95 90	A.9
1496100000	KWN-M12-/95 90	A.9
1496110000	KWN-M16-/95 90	A.9
1496120000	KWN-M5-/6	A.8
1496130000	KWN-M6-/6 90	A.8
1496140000	KWN-M8-/6 90	A.8
1496150000	KWN-M10-/6 90	A.8
1496170000	KWN-M12-/6 90	A.8
1496180000	KWN-M6-/25 45	A.10
1496190000	KWN-M8-/25 45	A.10
1496200000	KWN-M10-/25 45	A.10
1496210000	KWN-M12-/25 45	A.10
1496220000	KWN-M6-/35 45	A.10
1496230000	KWN-M8-/35 45	A.10
1496240000	KWN-M10-/35 45	A.10
1496250000	KWN-M12-/35 45	A.10
1496270000	KWN-M6-/50 45	A.10
1496280000	KWN-M8-/50 45	A.10
1496290000	KWN-M10-/50 45	A.10
1496300000	KWN-M12-/50 45	A.10
1496310000	KWN-M8-/70 45	A.10
1496320000	KWN-M10-/70 45	A.10
1496330000	KWN-M12-/70 45	A.10
1496340000	KWN-M8-/95 45	A.10
1496350000	KWN-M10-/95 45	A.10
1496370000	KWN-M12-/95 45	A.10
1496380000	KWN-M16-/95 45	A.10
1496390000	KWN-M8-/120 45	A.10
1496400000	KWN-M10/-120 45	A.10
1496410000	KWN-M12/-120 45	A.10
1496420000	KWN-M16/-120 45	A.10
1496430000	KWN-M8-/150 45	A.10
1496440000	KWN-M10/-150 45	A.10
1496450000	KWN-M16/-150 45	A.10
1496470000	KWN-M16-/150	A.10
1496480000	KWN-M20/-150 45	A.10
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1496500000	KRN-M8-/25	A.5
1496510000	KRN-M10-/25	A.5
1496520000	KRN-M12-/25	A.5
1496530000	KRN-M14-/25	A.5
1496540000	KRN-M6-/35	A.6
1496550000	KRN-M8-/35	A.6
1496570000	KRN-M10-/35	A.6
1496580000	KRN-M12-/35	A.6
1496590000	KRN-M6-/50	A.6
1496600000	KRN-M8-/50	A.6
1496610000	KRN-M10-/50	A.6
1496620000	KRN-M12-/50	A.6

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1496630000	KRN-M16-/50	A.6
1496640000	KRN-M6-/70	A.6
1496650000	KRN-M8-/70	A.6
1496670000	KRN-M10-/70	A.6
14966810000	KWN-M5-/10 45	A.10
14966820000	KWN-M6-/10 45	A.10
14966830000	KWN-M8-/10 45	A.10
14966840000	KWN-M10-/10 45	A.10
14966850000	KWN-M5-/16 45	A.10
14966870000	KWN-M6-/16 45	A.10
14966880000	KWN-M8-/16 45	A.10
14966890000	KWN-M10-/16 45	A.10
1496900000	KRN-M4-/10	A.5
14969810000	KRN-M5-/10	A.5
14969820000	KRN-M6-/10	A.5
14969830000	KRN-M8-/10	A.5
14969840000	KRN-M10-/10	A.5
14969850000	KRN-M12-/10	A.5
1496970000	KRN-M5-/16	A.5
1496980000	KRN-M6-/16	A.5
1496990000	KRN-M8-/16	A.5
1497000000	KRN-M10-/16	A.5
1497010000	KRN-M12-/16	A.5
1497020000	KWN-M5-/10 90	A.8
1497030000	KWN-M6-/10 90	A.8
1497040000	KWN-M8-/10 90	A.8
1497050000	KWN-M10-/10 90	A.8
1497070000	KWN-M12-/10 90	A.8
1497080000	KWN-M5-/16 90	A.8
1497090000	KWN-M6-/16 90	A.8
1497100000	KWN-M8-/16 90	A.8
1497110000	KWN-M10-/16 90	A.8
1497120000	KWN-M12-/16 90	A.8
1497130000	VSTN-/10	A.11
1497140000	VSTN-/16	A.11
1497150000	KRN-M4-/6	A.5
1497170000	KRN-M5-/6	A.5
1497180000	KRN-M6-/6	A.5
1497190000	KRN-M8-/6	A.5
1497200000	KRN-M10-/6	A.5
1497210000	KRN-M12-/6	A.5
1497220000	KWN-M5-/6 90	A.8
1497240000	KRN-M20-/300	A.6
1497250000	KRN-M14-/185	A.6
1497270000	KRN-M14-/240	A.6
1497280000	KRN-M14-/300	A.6
1497290000	KRN-M8-/185	A.6
1497300000	KWN-M12-/300 90	A.9
1497310000	KWN-M16-/300 90	A.9
1497320000	KWN-M20-/300 90	A.9
1497330000	VSTN-M0,5/-0,75	A.11
1497340000	VSTN-M1/-1,5	A.11
1497350000	VSTN-/2,5	A.11
1497370000	VSTN-/4	A.11
1497380000	VSTN-/150	A.11
1497390000	VSTN-/185	A.11
1497400000	VSTN-/240	A.11
1497840000	KP-M5-/6	A.13
1497850000	KP-M6-/6	A.13
1497860000	KP-M8-/6	A.13
1497870000	KP-M5-/10	A.13
1497880000	KP-M6-/10	A.13
1497890000	KP-M8-/10	A.13
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1497920000	KP-M5-/16	A.13
1497930000	KP-M6-/16	A.13
1497940000	KP-M8-/16	A.13
1497950000	KP-M10-/16	A.13
1497960000	KP-M12-/16	A.13
1497970000	KP-M6-/25	A.13
1497980000	KP-M8-/25	A.13
1497990000	KP-M10-/25	A.13
1498000000	KP-M12-/25	A.13
1498010000	KP-M16-/25	A.13
1498020000	KP-M6-/35	A.13
1498030000	KP-M8-/35	A.13
1498040000	KP-M10-/35	A.13
1498050000	KP-M12/35	A.13
1498060000	KP-M16-/35	A.13
1498070000	KP-M8-/50	A.13
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1498210000	KP-M12-/95	A.13
1498220000	KP-M16-/95	A.13
1498230000	KP-M20-/95	A.13
1498240000	KP-M10/-120	A.14
1498250000	KP-M12/-120	A.14
1498270000	KP-M16/-120	A.14
1498280000	KP-M20/-120	A.14
1498290000	KP-M8-/150	A.14

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1498350000	KP-M10/-185	A.14
1498360000	KP-M12/-185	A.14
1498370000	KP-M16/-185	A.14
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1498420000	KP-M16/-240	A.14
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1498440000	KP-M10/-300	A.14
1498450000	KP-M12/-300	A.14
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1498490000	KP-M14/-120	A.14
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1498580000	KP-M14/-150	A.14
1498590000	KP-M14/-185	A.14
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