

## ***Fuses and installation material:***

### ***The professional range***





# Fuses and installation material

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# 1. Technical information

## 1.1 Materials and surface finishes

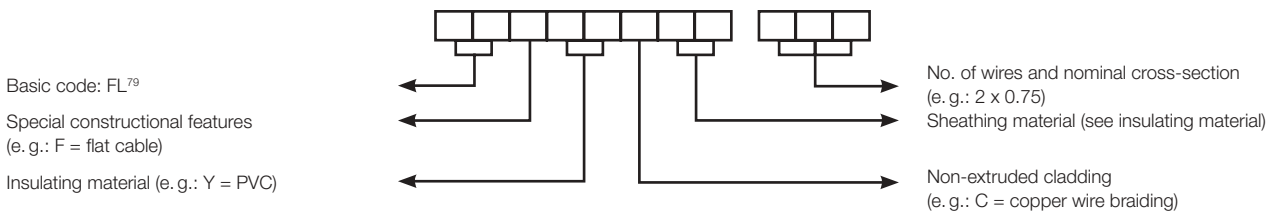
Material overview			
Short designation	Material	Corrosion resistance (in air)	Electrical conductivity
CuZn	Brass	good, better with surface treatment	medium
CuSn	Tin bronze	good, better with surface treatment	low
CuFe	Copper-iron	good, better with surface treatment	good
CuNi	Copper-nickel	good	low

Surface treatment		
Short designation	Material	Remarks
bk	(bright)	no surface coating, no special protection
Sn	Tin	corrosion protection, easy to solder, electrical contact making
frSn	galvanised tin-plated	lead-free, corrosion protection, easy to solder, electrical contact making
Ag	Silver	high conductivity, good electrical contact making
Au	Gold	resistant to tarnishing, best contact making at low current

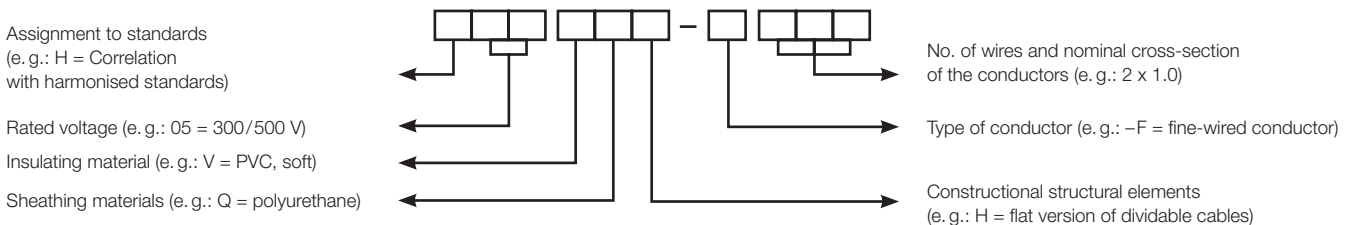
## 1.2 Codes for vehicle cables

Representation of the code structure according to DIN 76722<sup>78</sup>:



1st block (basic code)		2nd block (constructional features)		3rd block (insulating material and sheathing material)	
FL	Vehicle cable	F	Flat cable	Y	PVC
		R	Reduced wall thickness	X	PVC-X (X = cross-linked)
		Z	Multi-wire disconnectable cable	11Y	PUR

Representation of the code structure according to DIN VDE 0292:



1st block (standard assignment)		2nd block (rated voltage)		3rd block (insulating material and sheathing material)		4th block (type of conductor)	
H	harmonised	1	100/100 V	V	PVC, soft	F	Fine-wired conductor of a flexible cable (flexibility corresponds to EN 60228 Class 5)
A	non-harmonised, national	3	300/300 V	R	Ethylene propylene rubber or equivalent synthetic elastomer	D	Fine-wired conductor for welding cables according to HD 22.6
		5	300/500 V				
		7	450/750 V	N2	Special polychlorophrene rubber mixture for sheathing on welding cables according to HD 22.6		





### 1.3 Individual assembly of the fuse box sets

The fuse box sets have a modular design, which allows the fuse box to be put together individually and flexibly in line with the application required.

The new fin contact system also allows use with high currents: with the individual contacts up to 60 A and with the contact rails available separately even up to 125 A.

Each order set contains the housing, the insert, 16 individual contacts as well as a matching cover per set for standard ATO fuses, circuit-breakers 8JS 174 320-xxx or 8JS 174 326-xxx. The contact rails and a coding set are available as accessories.

**For further information see page 20–21.**



The empty housing is fitted with contact rails or individual contacts.



The housing insert is inserted ...



... and clicked into place.



Next step: insert fuses.



Put cover in place.



Finished.

#### Fuse box sets from Hella:

1. **8JD 005 993-161**  
with standard cover
2. **8JD 005 993-171**  
with high cover
3. **8JD 005 993-181**  
with open cover



Fuse box set with high cover for circuit-breakers 8JS 174 320-xxx.



Fuse box set with open cover for circuit-breakers 8JS 174 826-xxx.

**Blade fuses** are mainly used in fuse systems in vehicle electrics.

A distinction is made between:

1. the widespread normal version **ATO** (available up to max. 40 A),
2. the large-format **MAXI** blade fuse for the high-current range (available up to max. 80 A),
3. the small-format **MINI** blade fuse for protecting individual consumers (available up to max. 30 A) and






4. the even more compact **Low-Profile MINI** (also up to 30 A).

All blade fuses stand out thanks to their compact design and straightforward installation. The special advantage of fuses with a bulb is that they can be replaced quickly even in the dark.

2.1.1 Blade fuses	Ampere	Colour	Contents in pcs.	Short designation	Part number	PU in pcs.
<b>ATO blade fuses</b>	1 A	■	5	D 131	8JS 711 683-831	1
	2 A	■	5	D 132	8JS 711 683-841	1
	3 A	■	5	D 16	8JS 711 683-821	1
	4 A	■	5	D 190	8JS 711 683-881	1
	5 A	■	5	D 17	8JS 711 684-821	1
	7.5 A	■	5	D 18	8JS 711 685-821	1
	10 A	■	5	D 19	8JS 711 686-821	1
	15 A	■	5	D 20	8JS 711 687-821	1
	20 A	■	5	D 21	8JS 711 688-821	1
	25 A	□	5	D 22	8JS 711 689-821	1
	30 A	■	5	D 23	8JS 711 690-821	1
	35 A	■	5	D 191	8JS 711 683-871	1
	40 A	■	5	D 133	8JS 711 683-851	1
	1 A	■	50	D 128	8JS 711 683-011	50
	2 A	■	50	D 129	8JS 711 683-021	50
	3 A	■	50	D 69	8JS 711 683-002	50
	4 A	■	50	D 188	8JS 711 683-052	50
	5 A	■	50	D 70	8JS 711 684-002	50
	7.5 A	■	50	D 71	8JS 711 685-002	50
	10 A	■	50	D 72	8JS 711 686-002	50
	15 A	■	50	D 73	8JS 711 687-002	50
	20 A	■	50	D 74	8JS 711 688-002	50
	25 A	□	50	D 75	8JS 711 689-002	50
	30 A	■	50	D 76	8JS 711 690-002	50
35 A	■	50	D 189	8JS 711 683-042	50	
40 A	■	50	D 130	8JS 711 683-031	50	
<b>MINI blade fuse</b>	2 A	■	5	D 134	8JS 728 596-861	1
	3 A	■	5	D 135	8JS 728 596-881	1
	4 A	■	5	D 30	8JS 728 596-801	1
	5 A	■	5	D 31	8JS 728 596-811	1
	7.5 A	■	5	D 136	8JS 728 596-891	1
	10 A	■	5	D 32	8JS 728 596-821	1
	15 A	■	5	D 33	8JS 728 596-831	1
	20 A	■	5	D 34	8JS 728 596-841	1
	25 A	□	5	D 137	8JS 728 596-871	1
	30 A	■	5	D 35	8JS 728 596-851	1
	2 A	■	50	D 138	8JS 728 596-081	50
	3 A	■	50	D 139	8JS 728 596-101	50
	4 A	■	50	D 140	8JS 728 596-121	50
	5 A	■	50	D 141	8JS 728 596-131	50
	7.5 A	■	50	D 142	8JS 728 596-111	50
	10 A	■	50	D 143	8JS 728 596-141	50
	15 A	■	50	D 144	8JS 728 596-151	50
	20 A	■	50	D 145	8JS 728 596-161	50
	25 A	□	50	D 146	8JS 728 596-091	50
	30 A	■	50	D 147	8JS 728 596-171	50







	Ampere	Colour	Contents in pcs.	Short designation	Part number	PU in pcs.
<b>Low-Profile MINI blade fuses</b>  	2 A	■	5	D 233	8JS 728 596-262	5
	3 A	■	5	D 234	8JS 728 596-272	5
	4 A	■	5	D 235	8JS 728 596-282	5
	5 A	■	5	D 236	8JS 728 596-292	5
	7.5 A	■	5	D 237	8JS 728 596-302	5
	10 A	■	5	D 238	8JS 728 596-312	5
	15 A	■	5	D 239	8JS 728 596-322	5
	20 A	■	5	D 240	8JS 728 596-332	5
	25 A	□	5	D 241	8JS 728 596-342	5
	30 A	■	5	D 242	8JS 728 596-352	5
<b>MAXI blade fuses</b>  	20 A	■	1	D 148	8JS 728 595-051	1
	30 A	■	1	D 149	8JS 728 595-061	1
	40 A	■	1	D 150	8JS 728 595-071	1
	50 A	■	1	D 151	8JS 728 595-081	1
	60 A	■	1	D 152	8JS 728 595-091	1
	70 A	■	1	D 153	8JS 728 595-101	1
	80 A	□	1	D 154	8JS 728 595-111	1
	20 A	■	10	D 156	8JS 728 595-131	10
	25 A	■	10	D 249	8JS 728 595-212	10
	30 A	■	10	D 157	8JS 728 595-141	10
	40 A	■	10	D 158	8JS 728 595-151	10
	50 A	■	10	D 159	8JS 728 595-161	10
	60 A	■	10	D 160	8JS 728 595-171	10
	70 A	■	10	D 161	8JS 728 595-181	10
	80 A	□	10	D 162	8JS 728 595-191	10
	<b>ATO blade fuses with bulb</b>  	3 A	■	10	D 194	8JS 711 683-062
5 A		■	10	D 195	8JS 711 683-072	10
7.5 A		■	10	D 196	8JS 711 683-082	10
10 A		■	10	D 197	8JS 711 683-092	10
15 A		■	10	D 198	8JS 711 683-102	10
20 A		■	10	D 199	8JS 711 683-112	10
25 A		□	10	D 200	8JS 711 683-122	10
30 A		■	10	D 201	8JS 711 683-132	10
<b>MINI blade fuses with bulb</b>  		3 A	■	10	D 203	8JS 728 596-182
	5 A	■	10	D 204	8JS 728 596-192	10
	7.5 A	■	10	D 205	8JS 728 596-202	10
	10 A	■	10	D 206	8JS 728 596-212	10
	15 A	■	10	D 207	8JS 728 596-222	10
	20 A	■	10	D 208	8JS 728 596-232	10
	25 A	□	10	D 209	8JS 728 596-242	10
	30 A	■	10	D 210	8JS 728 596-252	10
<b>Blade fuses for electric vehicles up to 80 V</b>  	3 A	■	10		8JS 711 683-202	10
	5 A	■	10		8JS 711 683-212	10
	7.5 A	■	10		8JS 711 683-222	10
	10 A	■	10		8JS 711 683-232	10
	15 A	■	10		8JS 711 683-242	10
	20 A	■	10		8JS 711 683-252	10
	25 A	□	10		8JS 711 683-262	10
30 A	■	10		8JS 711 683-272	10	




**2 Fuses/Circuit-breakers/Fuse holders/Fuse boxes**  
**2.1 Fuses**

	Description	Ampere	Contents in pcs.	Short reference	Part number	PU in pcs.
<b>Fuse gripper/ tester</b>    	ATO/MINI blade fuse tester/gripper		1	A 96	8PE 713 576-011	1
	MAXI blade fuse gripper		1	D 225	8PE 713 576-021	1
<b>Fuse assortment</b>	Assortment with ATO fuses and 4 fuse holders 8KV 004 418-004	15 units each 5 A, 7.5 A, 10 A, 15 A, 20 A, 25 A, 30 A	109	D 99	8JS 004 743-803	1
	ATO assortment	1 unit each 3 A, 5 A, 7.5 A, 15 A, 25 A, 30 A; 2 units each 10 A, 20 A	10	D 49	8JS 711 683-903	1
	ATO assortment	5 units each 2 A, 5 A, 7.5 A, 15 A, 20 A, 30 A	30		8JS 711 683-861	1
	MINI assortment	3 units each 4 A, 5 A, 30 A; 5 units each 10 A, 15 A, 20 A	24	D 44	8JS 728 596-901	1
	MAXI assortment	1 x 20 A; 3 units each 30 A, 40 A, 50 A, 60 A	13	D 43	8JS 728 595-901	1
	Assortment ATO with bulb	1 unit each 5 A, 7.5 A, 10 A, 15 A, 20 A	5	D 202	8JS 711 683-931	1
	Assortment MINI with bulb	1 unit each 5 A, 7.5 A, 10 A, 15 A, 20 A	5	D 211	8JS 728 596-921	1











	Ampere	Colour	Designation	Short reference	Assortment quantity	Part number	PU in pcs.
<b>Fuse assortment case</b>  	The assortment comprises ATO (25 units each per current rating) and MINI blade fuses (20 units each per current rating) and one MINI/ATO blade fuse tester/gripper. Quantity delivered as refill set deviates from the quantity in the original set.					8JS 009 257-801	1




<b>Spare parts for fuse assortment case</b>	2 A	■	ATO blade fuse	D 129	25	8JS 711 683-021	50
	3 A	■		D 69	25	8JS 711 683-002	50
	4 A	■		D 188	25	8JS 711 683-052	50
	5 A	■		D 70	25	8JS 711 684-002	50
	7.5 A	■		D 71	25	8JS 711 685-002	50
	10 A	■		D 72	25	8JS 711 686-002	50
	15 A	■		D 73	25	8JS 711 687-002	50
	20 A	■		D 74	25	8JS 711 688-002	50
	25 A	□		D 75	25	8JS 711 689-002	50
	30 A	■		D 76	25	8JS 711 690-002	50
	40 A	■		D 130	25	8JS 711 683-031	50
	2 A	■		MINI blade fuse	D 138	20	8JS 728 596-081
	3 A	■	D 139		20	8JS 728 596-101	50
	4 A	■	D 140		20	8JS 728 596-121	50
	5 A	■	D 141		20	8JS 728 596-131	50
	7.5 A	■	D 142		20	8JS 728 596-111	50
	10 A	■	D 143		20	8JS 728 596-141	50
	15 A	■	D 144		20	8JS 728 596-151	50
	20 A	■	D 145		20	8JS 728 596-161	50
	25 A	□	D 146		20	8JS 728 596-091	50
30 A	■	D 147	20	8JS 728 596-171	50		



2 Fuses/Circuit-breakers/Fuse holders/Fuse boxes  
2.1 Fuses




2.1.2 Screw-type fuses	Ampere	Colour	Contents in pcs.	Short reference	Part number	PU in pcs.
<b>MIDI high-current fuses</b>  	30 A	■	1	D 164	8JS 742 901-061	1
	40 A	■	1	D 165	8JS 742 901-001	1
	50 A	■	1	D 166	8JS 742 901-011	1
	60 A	■	1	D 167	8JS 742 901-021	1
	70 A	■	1	D 168	8JS 742 901-031	1
	80 A	□	1	D 169	8JS 742 901-041	1
	100 A	■	1	D 170	8JS 742 901-051	1
	125 A	■	1	D 171	8JS 742 901-071	1
	150 A	■	1	D 172	8JS 742 901-081	1
<b>MEGA high-current fuses</b>  	100 A	■	1	D 173	8JS 742 902-001	1
	125 A	■	1	D 174	8JS 742 902-011	1
	150 A	■	1	D 175	8JS 742 902-021	1
	175 A	□	1	D 176	8JS 742 902-031	1
	200 A	■	1	D 177	8JS 742 902-041	1
	225 A	■	1	D 178	8JS 742 902-061	1
	250 A	■	1	D 179	8JS 742 902-051	1
	300 A	■	1	D 180	8JS 742 902-071	1
	350 A	■	1	D 243	8JS 742 902-081	1
	400 A	■	1	D 244	8JS 742 902-091	1
	450 A	■	1	D 245	8JS 742 902-101	1
500 A	■	1	D 246	8JS 742 902-111	1	
<b>Fuse strips</b>  	30 A		100		8JS 713 575-011	100
	50 A		100		8JS 713 575-021	100
	60 A		100		8JS 713 575-031	100
	80 A		100		8JS 713 575-001	100
	100 A		100		8JS 713 575-041	100
	125 A		100		8JS 713 575-051	100
	150 A		100		8JS 713 575-061	100
<b>HSB fuse strips 42 x 12 mm</b>  	30 A		10		8JS 713 575-102	10
	40 A		10		8JS 713 575-112	10
	50 A		10		8JS 713 575-122	10
	60 A		10		8JS 713 575-132	10
	80 A		10		8JS 713 575-142	10
	110 A		10		8JS 713 575-152	10
	150 A		10		8JS 713 575-162	10
	175 A		10		8JS 713 575-172	10
<b>Fuse strips for railless battery vehicles</b>  	35 A		1		8JS 713 575-201	1
	50 A		1		8JS 713 575-211	1
	63 A		1		8JS 713 575-221	1
	80 A		1		8JS 713 575-231	1
	100 A		1		8JS 713 575-241	1
	125 A		1		8JS 713 575-251	1
	160 A		1		8JS 713 575-261	1
	200 A		1		8JS 713 575-271	1
	250 A		1		8JS 713 575-281	1
	300 A		1		8JS 713 575-291	1
	355 A		1		8JS 713 575-301	1
425 A		1		8JS 713 575-311	1	
<b>CF 8 main fuses up to 58 V</b>  	50 A		1		8JS 747 876-001	1
	75 A		1		8JS 747 876-011	1
	100 A		1		8JS 747 876-021	1
	125 A		1		8JS 747 876-031	1
	150 A		1		8JS 747 876-041	1
	175 A		1		8JS 747 876-051	1
	200 A		1		8JS 747 876-061	1
	250 A		1		8JS 747 876-071	1
300 A		1		8JS 747 876-081	1	



	Description	Contents in pcs.	Short reference	Part number	PU in pcs.
<b>Accessories CF 8</b>      	Insulating nut	1		9MJ 747 877-001	1
	Battery clamp 1-post Bolt diameter 8 mm	1		8KX 747 875-001	1
	Battery clamp 2-post Bolt diameter 8 mm	1		8KX 747 875-011	1







































**PAL and JCASE fuses** (available up to max. 120 A) are an alternative to MAXI blade fuses. They are mainly used in Japanese vehicles.

JCASE fuses and particularly **Low-Profile JCASE fuses** are significantly more compact than PAL fuses.

<b>2.1.3 Cartridge fuses</b>	Ampere	Colour	Contents in pcs.	Short reference	Part number	PU in pcs.
<b>Female (AS)</b>  	20 A	■	1	D 100	8JS 740 026-001	1
	30 A	■	1	D 101	8JS 740 026-011	1
	40 A	■	1	D 102	8JS 740 026-021	1
	50 A	■	1	D 103	8JS 740 026-031	1
	60 A	■	1	D 104	8JS 740 026-041	1
<b>Female small (F)</b>  	30 A	■	1	D 105	8JS 740 026-101	1
	40 A	■	1	D 106	8JS 740 026-111	1
<b>Male (B)</b>  	30 A	■	1	D 107	8JS 740 026-201	1
	40 A	■	1	D 112	8JS 740 026-241	1
	50 A	■	1	D 113	8JS 740 026-251	1
	60 A	■	1	D 108	8JS 740 026-211	1
	70 A	■	1	D 114	8JS 740 026-261	1
	80 A	■	1	D 109	8JS 740 026-221	1
	100 A	■	1	D 110	8JS 740 026-231	1
120 A	□	1	D 115	8JS 740 026-271	1	



2 Fuses/Circuit-breakers/Fuse holders/Fuse boxes  
2.1 Fuses

2.1.3 Cartridge fuses	Ampere	Colour	Contents in pcs.	Short reference	Part number	PU in pcs.
<b>Bent (C)</b>  	30 A		1	D 116	8JS 740 026-311	1
	40 A		1	D 117	8JS 740 026-321	1
	50 A		1	D 118	8JS 740 026-331	1
	60 A		1	D 119	8JS 740 026-341	1
	70 A		1	D 120	8JS 740 026-351	1
	80 A		1	D 111	8JS 740 026-301	1
	100 A		1	D 121	8JS 740 026-361	1
	120 A		1	D 122	8JS 740 026-371	1
<b>Bent short (CS)</b>  	30 A		1	D 212	8JS 740 026-501	10
	40 A		1	D 213	8JS 740 026-511	10
	50 A		1	D 214	8JS 740 026-521	10
	60 A		1	D 215	8JS 740 026-531	10
	70 A		1	D 216	8JS 740 026-541	10
	80 A		1	D 217	8JS 740 026-551	10
	100 A		1	D 218	8JS 740 026-561	10
	120 A		1	D 219	8JS 740 026-571	10
<b>Female slot (D)</b>  	25 A		1	D 220	8JS 740 026-601	1
	30 A		1	D 221	8JS 740 026-611	1
<b>Female slot (E)</b>  	45 A		1	D 222	8JS 740 026-701	1
	65 A		1	D 223	8JS 740 026-711	1
	75 A		1	D 224	8JS 740 026-721	1
<b>JCASE</b>  	20 A		1	D 123	8JS 740 026-401	1
	30 A		1	D 124	8JS 740 026-411	1
	40 A		1	D 125	8JS 740 026-421	1
	50 A		1	D 126	8JS 740 026-431	1
	60 A		1	D 127	8JS 740 026-441	1
<b>Low-Profile JCASE</b>  	20 A		1	D 227	8JS 740 026-731	1
	25 A		1	D 228	8JS 740 026-741	1
	30 A		1	D 229	8JS 740 026-751	1
	40 A		1	D 230	8JS 740 026-761	1
	50 A		1	D 231	8JS 740 026-771	1
	60 A		1	D 232	8JS 740 026-781	1



2.1.4 Other fuses	Ampere	Colour	Contents in pcs.	Short reference	Part number	PU in pcs.
<b>Torpedo/Bakelit fuses (DIN 72581, Part 1, 6 x 25 mm)</b>	5 A	■	5	D 11	8JS 704 073-801	1
	8 A	□	5	D 12	8JS 025 889-801	1
	16 A	■	5	D 13	8JS 089 015-801	1
	25 A	■	5	D 14	8JS 091 603-801	1
	5 A	■	100	D 64	8JS 704 073-003	100
	8 A	□	100	D 65	8JS 025 889-003	100
	16 A	■	100	D 66	8JS 089 015-003	100
	25 A	■	100	D 67	8JS 091 603-003	100
	40 A	■	100	D 68	8JS 713 144-003	100



<b>Glass-tube fuses 5 x 20 mm, quick-acting</b>	1A		100	D 50	8JS 713 549-003	100
	2.5 A		100	D 51	8JS 713 804-003	100
	5 A		100	D 52	8JS 713 550-003	100



<b>Glass-tube fuses 6.3 x 32 mm, quick-acting</b>	5 A		50	D 53	8JS 713 564-002	50
	10 A		50	D 54	8JS 713 805-003	50
	15 A		50	D 55	8JS 713 806-003	50
	20 A		50	D 57	8JS 713 807-003	50
	25 A		50	D 58	8JS 713 808-003	50
	30 A		50	D 59	8JS 713 567-003	50



Description	Ampere	Contents in pcs.	Short reference	Part number	PU in pcs.
Assortment of glass-tube fuses	1 unit each 2.5 A (5 x 20 mm), 5 A, 25 A, 4 units each 8 A and 3 units each 16 A (Torpedo)	10	D 47	8JS 003 481-803	1
Assortment of glass-tube and Torpedo fuses	1 unit each 2.5 A (5 x 20 mm), 25 A, 3 units each 10 A, 20 A (6.3 x 32 mm)	8	D 48	8JS 003 481-823	1








## 2 Fuses/Circuit-breakers/Fuse holders/Fuse boxes

### 2.2 Circuit-breakers

**Circuit-breakers**, like fuses, are used to protect equipment from excess load and short-circuit by interrupting the circuit. Their advantage, however, that they automatically reset many times, or can be manually reset many times, which means they do not have to be replaced directly. This saves time and money.

In addition, they distinguish between temporarily limited switch-on current and excess load, so that they provide optimum protection without wasting energy. The version with manual trigger allows garages to interrupt the circuit comfortably and quickly, and then to check the function through manual reset.

2.2 Circuit-breakers	Ampere	Colour	Contents in pcs.	Short reference	Part number	PU in pcs.
<b>Resettable, connection as ATO fuses</b> 	5 A	■	1	C 01	▶ 8JS 174 320-001	1
	7.5 A	■	1	C 02	▶ 8JS 174 320-011	1
	10 A	■	1	C 03	▶ 8JS 174 320-021	1
	15 A	■	1	C 04	▶ 8JS 174 320-031	1
	20 A	■	1	C 05	▶ 8JS 174 320-041	1
	25 A	□	1	C 06	▶ 8JS 174 320-051	1
	30 A	■	1	C 07	▶ 8JS 174 320-061	1
	40 A	■	1	C 08	▶ 8JS 174 320-071	1
<b>Automatic reset, 2 male blade connections 6.3 x 0.8 mm</b> 	12 A	■	1	C 18	▶ 8JS 174 328-001	1
	15 A	■	1	C 19	▶ 8JS 174 328-011	1
	20 A	■	1	C 20	▶ 8JS 174 328-021	1
	30 A	■	1	C 21	▶ 8JS 174 328-031	1
<b>With manual trigger, connections as ATO fuses</b> 	5 A	■	1	C 09	▶ 8JS 174 326-001	1
	7.5 A	■	1	C 10	▶ 8JS 174 326-011	1
	10 A	■	1	C 11	▶ 8JS 174 326-021	1
	15 A	■	1	C 12	▶ 8JS 174 326-031	1
	20 A	■	1	C 13	▶ 8JS 174 326-041	1
	25 A	■	1	C 14	▶ 8JS 174 326-051	1
	30 A	■	1	C 15	▶ 8JS 174 326-061	1
	35 A	■	1	C 16	▶ 8JS 174 326-081	1
	40 A	■	1	C 17	▶ 8JS 174 326-071	1
<b>Automatic reset, connections as MINI fuses</b> 	5 A		1	C 22	▶ 8JS 174 330-001	1
	7.5 A		1	C 23	▶ 8JS 174 330-011	1
	10 A		1	C 24	▶ 8JS 174 330-021	1
	15 A		1	C 25	▶ 8JS 174 330-031	1
	20 A		1	C 26	▶ 8JS 174 330-041	1
	25 A		1	C 27	▶ 8JS 174 330-051	1
	30 A		1	C 28	▶ 8JS 174 330-061	1
<b>Automatic reset, connections as MAXI fuses</b> 	10 A		1	C 29	▶ 8JS 174 333-001	1
	15 A		1	C 30	▶ 8JS 174 333-011	1
	20 A		1	C 31	▶ 8JS 174 333-021	1
	25 A		1	C 32	▶ 8JS 174 333-031	1
	30 A		1	C 33	▶ 8JS 174 333-041	1
	35 A		1	C 34	▶ 8JS 174 333-051	1
	40 A		1	C 35	▶ 8JS 174 333-061	1
	50 A		1	C 36	▶ 8JS 174 333-071	1

▶ New in the range

## 2 Fuses/Circuit-breakers/Fuse holders/Fuse boxes

### 2.3 Fuse holders



2.3.1 In-line fuse holders	Description	Load capacity	Contents in pcs.	Short reference	Part number	PU in pcs.
<b>ATO in-line fuse holder, total length: ca. 100 mm</b>  	with cables 1.3 mm <sup>2</sup> on both sides, splashwater-proof	max. 20 A	1	D 81	8JD 743 557-021	1
	with cables 3.3 mm <sup>2</sup> on both sides, splashwater-proof	max. 30 A	1	D 82	8JD 743 557-031	1
	with cables 1.3 mm <sup>2</sup> on both sides	max. 20 A	1	D 83	8JD 743 557-041	1
	with cables 3.3 mm <sup>2</sup> on both sides	max. 30 A	1	D 84	8JD 743 557-051	1
<b>MINI in-line fuse holder, total length: ca. 100 mm</b>  	with cables 2 mm <sup>2</sup> on both sides, splashwater-proof	max. 20 A	1	D 181	8JD 743 557-001	1
	with cables 3 mm <sup>2</sup> on both sides, splashwater-proof	max. 30 A	1	D 182	8JD 743 557-011	1
<b>Low-Profile MINI in-line fuse holder</b>  	with cables 0.75 mm <sup>2</sup>	max. 10 A	1	D 247	▶ 8JD 743 557-091	1
	with cables 3.0 mm <sup>2</sup>	max. 30 A	1	D 248	▶ 8JD 743 557-101	1
<b>JCASE in-line fuse holder</b>  		max. 60 A	1	D 250	▶ 8JD 743 557-111	1

▶ New in the range









## 2 Fuses/Circuit-breakers/Fuse holders/Fuse boxes

### 2.3 Fuse holders

2.3.1 In-line fuse holders	Description	Load capacity	Contents in pcs.	Short reference	Part number	PU in pcs.
<b>Low-profile JCASE in-line fuse holder</b>  		max. 40 A	1	D 251	▶ 8JD 743 557-121	1
<b>In-line fuse holder for glass-tube fuses</b>      	5 x 20 mm glass-tube fuse without fuse	max. 10 A at 32 V	1	D 252	▶ 8JD 003 285-011	1
	6.3 x 32 mm glass-tube fuse without fuse	max. 20 A at 32 V	1	D 253	▶ 8JD 003 285-021	1
	with glass-tube fuse insert 2 A 5 x 20 mm, 170 mm long, female spade connectors 6.3 x 0.8 mm		2	I 03	8KV 003 285-801	1
			8	I 54	8KV 003 285-002	8
<hr/>						
2.3.2 Other fuse holders	Description		Contents in pcs.	Short reference	Part number	PU in pcs.
<b>ATO fuse holders</b>      	with blade terminal connections (6.3 x 0.8 mm)		10	I 59	8KV 004 418-004	10
			2	I 09	8KV 004 418-821	1
	for direct clamping to the cable		10	I 60	8KV 714 340-002	10
	with 2 twin-spring contacts 8KW 054 944-003; possible to line up several holders together; compatible with female connector housing 9-pin 8JA 003 526-001			1		8JA 007 024-001



	Description	Load capacity	Contents in pcs.	Short reference	Part number	PU in pcs.
	with 2 twin-spring contacts 8KW 054 944-003 and cover, for cables up to 2.5 mm <sup>2</sup> , for cables 2.5–4.0 mm <sup>2</sup> use twin-spring contacts 8KW 054 943-003!	max. 30 A	6	D 77	8JD 005 235-002	6
	Possible to line up several holders together.	max. 30 A	2	D 24	8JD 005 235-801	1
<b>Auxiliary fuse holder</b> 	MINI fuse holder with 4 blade fuses 1 each 3 A, 5 A, 7.5 A, 10 A		5	D 192	8JD 743 557-801	1
	ATO fuse holder with 4 blade fuses 1 each 3 A, 5 A, 7.5 A, 10 A		5	D 193	8JD 743 557-811	1
<b>MAXI fuse holders</b> 	splashwater-proof; with cover, 2 screws each, contacts for cables from 2.5–6.0 mm <sup>2</sup> and 5.0–10.0 mm <sup>2</sup>	20 A–60 A	1	D 183	8JD 743 708-001	1
	waterproof, with cover, seals and contacts, for cables 4–6 mm <sup>2</sup>	20 A–80 A	1	D 184	8JD 743 710-001	1
	for cables 6–10 mm <sup>2</sup>		1	D 185	8JD 743 709-001	1



2 Fuses/Circuit-breakers/Fuse holders/Fuse boxes  
2.3. Fuse holders

2.3.2 Other fuse holders	Description	Load capacity	Contents in pcs.	Short reference	Part number	PU in pcs.
<b>MEGA and MIDI fuse holders</b>	MIDI fuse holder	30 A – 150 A	1	D 187	8JD 743 136-001	1
	 MEGA fuse holder	100 A – 250 A	1	D 186	8JD 743 135-001	1
	 MEGA fuse holder with flexible cover which allows cable routing from any direction	max. 500 A	1	D 254	▶ 8JD 743 135-011	1
<b>Torpedo/ceramic fuse holder for cable cross-section 1.5–2.5 mm<sup>2</sup></b>	with fuse insert 8 A		2	I 04	8KV 002 127-801	1
			10	I 55	8KV 002 127-003	10
	with fuse insert 5 A		10		8KV 002 136-001	10
	with fuse insert 16 A		10		8KV 002 127-021	10
	with fuse insert 25 A		10		8KV 002 127-011	10
	without fuse insert		10		8KV 002 136-011	10
						
<b>Fuse holder for railless battery vehicles</b>	for fuses 8JS 713 575-201 to -311		1	D 226	8JD 743 557-081	1
						

▶ New in the range



**2 Fuses/Circuit-breakers/Fuse holders/Fuse boxes**  
**2.4 Fuse boxes**






2.4 Fuse boxes	Description	No. Pins	Contents in pcs.	Short reference	Part number	PU in pcs.
<b>ATO fuse boxes</b>	with 8 axial outputs, (6.3 x 0.8 mm), transparent cover and contact parts	4-pin	10		8JD 005 993-072	10
	with 8 side outputs (6.3 x 0.8 mm), transparent cover and contact parts	4-pin	10		8JD 005 993-082	10
	with 10 axial outputs (6.3 x 0.8 mm), transparent cover, for max. 5 x 30-A flat fuse inserts, with 2 attachment brackets	5-pin	10		8JD 005 993-001	10
			1	D 95	8JD 005 993-002	1
	with 10 axial solder connections (2.2 mm), transparent cover, for max. 5 x 15-A flat fuse inserts	5-pin	10		8JD 005 993-021	10
	with 10 side outputs (6.3 x 0.8 mm), transparent cover, for max. 5 x 30-A flat fuse inserts	5-pin	10		8JD 005 993-032	10
	with 12 axial outputs, (6.3 x 0.8 mm), transparent cover and contact parts	6-pin	10		8JD 005 993-092	10
	with 12 side outputs (6.3 x 0.8 mm), transparent cover and contact parts	6-pin	10		8JD 005 993-102	10



**2 Fuses/Circuit-breakers/Fuse holders/Fuse boxes**  
**2.4 Fuse boxes**

2.4 Fuse boxes	Description	No. Pins	Contents in pcs.	Short reference	Part number	PU in pcs.
<b>ATO fuse boxes</b> 	with 24 axial connections (6.3 x 0.8 mm), transparent cover	6-pin	10		8JD 005 993-051	10
	Bridge (width 15.8 mm)		80		9MK 741 492-001	80
	with 16 axial outputs (6.3 x 0.8 mm), transparent cover and contact parts	8-pin	10		8JD 005 993-112	10
	with 16 side outputs (6.3 x 0.8 mm), transparent cover and contact parts	8-pin	10		8JD 005 993-122	10
	with 32 axial connections (6.3 x 0.8 mm) or with 64 axial connections (2.8 x 0.8 mm), transparent cover	8-pin	10		8JD 005 993-061	10
	Bridge (width 11.5 mm)		80		9MK 741 492-011	80
	Coding set		4		8JB 742 649-001	1
	Fuse boxes set for ATO blade fuses comprising one housing, insert and cover each, as well as 16 individual contacts	8-pin	4		▶ 8JD 005 993-161	1



	Description	No. Pins	Contents in pcs.	Short reference	Part number	PU in pcs.
<b>ATO fuse boxes</b> 	Fuse boxes set for circuit-breaker 8JS 174 320-xxx comprising one housing, insert and cover each as well as 16 individual contacts	8-pin	4		▶ 8JD 005 993-171	1
	Fuse boxes set for circuit-breaker 8JS 174 326-xxx comprising one housing, insert and cover each as well as 16 individual contacts	8-pin	4		▶ 8JD 005 993-181	1
	Contact rails for currents up to 125 A	2-pin	10		▶ 9MK 741 492-022	10
		3-pin	10		▶ 9MK 741 492-032	10
		4-pin	10		▶ 9MK 741 492-042	10
		5-pin	10		▶ 9MK 741 492-052	10
		6-pin	10		▶ 9MK 741 492-062	10
		7-pin	10		▶ 9MK 741 492-072	10
		8-pin	10		▶ 9MK 741 492-082	10
		Coding set		4		▶ 8JB 742 649-041
	Special fuse box, splashwater-proof with holders integrated in the cover for 4 spare blade fuses, rubber seal and 12 contacts for cables 1.5 to 2.5 mm <sup>2</sup> , up to 10 A	12-pin	1		8JD 005 993-131	1



**2 Fuses/Circuit-breakers/Fuse holders/Fuse boxes**  
**2.4 Fuse boxes**



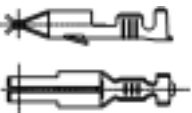
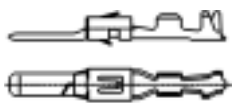
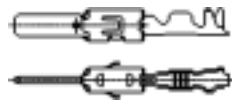
2.4 Fuse boxes	Description	Cover colour	No. Pins	Contents in pcs.	Short reference	Part number	PU in pcs.
<b>Torpedo/ceramic fuse boxes with 8 A fuse inserts</b> 	Threaded connections for cables up to 6 mm <sup>2</sup>	■	1-pin	10		8JD 002 288-001	10
	Threaded connections for cables up to 6 mm <sup>2</sup>	transparent	2-pin	10		8JD 002 289-001	10
	Male blade connection 6.3 x 0.8 mm <sup>2</sup>	transparent	2-pin	10		8JD 002 289-081	10
	Threaded connections for cables up to 6 mm <sup>2</sup>	■	4-pin	15		8JD 002 294-001	15
	Threaded connections for cables up to 6 mm <sup>2</sup>	transparent	4-pin	15		8JD 002 294-011	15
	Male blade connection 6.3 x 0.8 mm <sup>2</sup>	transparent	4-pin	10		8JD 002 294-081	10
	Threaded connections for cables up to 6 mm <sup>2</sup>	■	6-pin	10		8JD 002 291-001	10
	Threaded connections for cables up to 6 mm <sup>2</sup>	transparent	6-pin	10		8JD 002 291-011	10
	Male blade connection 6.3 x 0.8 mm <sup>2</sup>	transparent	6-pin	10		8JD 002 291-141	10
	Threaded connections for cables up to 6 mm <sup>2</sup>	■	8-pin	5		8JD 002 290-001	5
	Threaded connections for cables up to 6 mm <sup>2</sup>	transparent	8-pin	5		8JD 002 290-031	5
	Male blade connection 6.3 x 0.8 mm <sup>2</sup>	transparent	8-pin	10		8JD 002 290-141	10
	Connection rail		2-pin	100		9XS 091 200-007	100
	60 male blade connections 6.3 x 0.8 mm	transparent	12-pin	10		8JD 004 588-001	10
							

### 3. Cable connectors

#### 3.1 Crimp connectors



These items are used at splashwater-proof spots in the vehicle and mainly serve as detachable system elements for electrical and mechanical connections and cable branches.



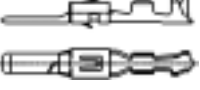




3.1.1 Non-insulated crimp connectors	Description	Cross-section mm <sup>2</sup>	Male connector dimensions mm	Material/Surface finish	Short reference	Part number	PU in pcs.
<b>Micro Timer II</b>	Flat female connector	0.5–1.0	1.6 x 0.8	CuFe/Sn	B 192	8KW 863 933-003	50
	 for individual conductor seal	0.5–1.0	1.6 x 0.8	CuFe/Sn	B 193	8KW 863 933-013	50
	Male blade connector	0.5–1.0	1.6 x 0.8	CuFe/Sn	B 190	8KW 863 932-003	50
	for individual conductor seal	0.5–1.0	1.6 x 0.8	CuSn/Sn	B 191	8KW 863 932-013	50
	Strand insulation	1.4–1.9		Silicone grey	B 201	9GD 863 952-012	50
	Blind plug			Silicone white	B 202	9GD 863 952-002	50
<b>Junior Timer</b>	Flat female connector with catch spring	0.5–1.0	2.8 x 0.8	CuZn/Sn	B 175	8KW 863 926-003	50
		1.0–2.5	2.8 x 0.8	CuZn/Sn	B 176	8KW 863 926-013	50
	Male blade connector with non-symmetrical steel spring	0.5–1.0	2.8 x 0.8	CuSn/Sn	B 189	8KW 863 931-003	50
	Male blade connector with symmetrical steel spring	0.5–1.0	2.8 x 0.8	CuFe/Sn	B 187	8KW 863 930-003	50




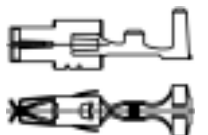


### 3. Cable connectors

#### 3.1 Crimp connectors



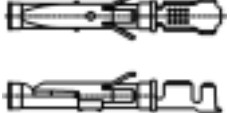

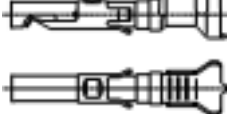


	Description	Cross-section mm <sup>2</sup>	Male connector dimensions mm	Material/ Surface finish	Short reference	Part number	PU in pcs.
<b>Junior Power Timer</b>  	Flat female connector	0.5–1.0	2.8 x 0.8	CuSn/Sn	B 194	8KW 863 934-003	50
	for individual conductor seal	0.5–1.0	2.8 x 0.8	CuSn/Sn	B 195	8KW 863 934-013	50
	Flat female connector	1.0-2.5	2.8 x 0.8	CuSn/Sn	B 216	8KW 863 934-023	50
	Flat female connector	1.0-2.5	2.8 x 0.8	CuSn/Sn		8KW 863 934-024	1000
	Male blade connector with non-symmetrical steel spring	0.5–1.0	2.8 x 0.8	CuSn/Sn	B 189	8KW 863 931-003	50
	Male blade connector with symmetrical steel spring	0.5–1.0	2.8 x 0.8	CuSn/Sn	B 187	8KW 863 930-003	50
	Male blade connector with symmetrical steel spring for individual conductor seal	0.5–1.0	2.8 x 0.8	CuSn/Sn	B 188	8KW 863 930-013	50
	Individual conductor seal	1.2–2.1 mm		Silicone blue	B 204	9GD 863 953-012	50
	Blind plug			Silicone natural	B 203	9GD 863 953-002	50
<b>Standard Timer</b>  	Flat female connector with a catch spring	0.5–1.0	4.8/5.8/ 6.8 x 0.8	CuZn/Sn	B 173	8KW 863 925-003	50
		1.0–2.5	4.8/5.8/ 6.8 x 0.8	CuSn/Sn	B 174	8KW 863 925-013	50
	Male blade connector with symmetrical steel spring	0.5–1.0	5.8 x 0.8	CuFe/Sn	B 181	8KW 863 928-003	50
		1.5–2.5	5.8 x 0.8	CuFe/Sn	B 182	8KW 863 928-013	50



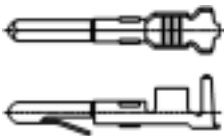

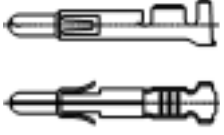
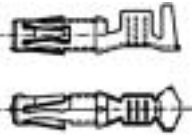
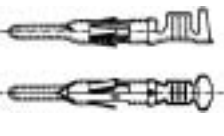
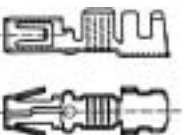
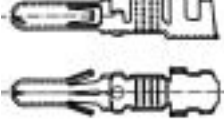
	Description	Cross-section mm <sup>2</sup>	Male connector dimensions mm	Material/Surface finish	Short reference	Part number	PU in pcs.
<b>Standard Power Timer</b>  	Flat female connector	0.5–1.0	4.8/5.8/6.8 x 0.8	CuFe/Sn	B 177	8KW 863 927-003	50
		1.5–2.5	4.8/5.8/6.8 x 0.8	CuFe/Sn	B 178	8KW 863 927-013	50
		2.5–4.0	4.8/5.8/6.8 x 0.8	CuFe/Sn	B 179	8KW 863 927-023	50
	for individual conductor seal	1.5–2.5	4.8/5.8/6.8 x 0.8	CuFe/Sn	B 180	8KW 863 927-033	50
	Male blade connector with symmetrical steel spring	0.5–1.0	5.8 x 0.8	CuFe/Sn	B 181	8KW 863 928-003	50
		1.5–2.5	5.8 x 0.8	CuFe/Sn	B 182	8KW 863 928-013	50
		2.5–4.0	5.8 x 0.8	CuFe/Sn	B 183	8KW 863 928-023	50
	Male blade connector with symmetrical steel spring for individual conductor seal	1.5–2.5	5.8 x 0.8	CuFe/Sn	B 184	8KW 863 928-033	50
	Individual conductor seal	2.2–3.0 mm		Silicone white	B 205	9GD 863 954-012	50
	Blind plug			Silicone black	B 206	9GD 863 954-002	50
<b>Maxi Power Timer</b>  	Flat female connector for individual conductor seal	2.5–4.0	9.5 x 1.2	CuNi/Sn	B 198	8KW 863 951-003	10
		4.0–6.0	9.5 x 1.2	CuNi/Sn	B 199	8KW 863 951-013	10
		6.0–10.0	9.5 x 1.2	CuNi/Sn	B 200	8KW 863 951-023	10
	Individual conductor seal	4.7–5.3 mm		Silicone blue	B 208	9GD 863 961-012	10
		5.8–6.6 mm		Silicone light blue	B 209	9GD 863 961-022	10



**3. Cable connectors**  
**3.1 Crimp connectors**

	Description	Cross-section mm <sup>2</sup>	Male connector dimensions mm	Material/Surface finish	Short reference	Part number	PU in pcs.
<b>Male connector-type connection CIC</b>  	Female socket connector	0.5–1.5	1.6	CuZn/Sn	B 159	8KW 863 918-003	50
		1.0–2.5	1.6	CuSn/Sn	B 160	8KW 863 918-013	50
	Male pin connector	0.5–1.5	1.6	CuZn/Sn	B 161	8KW 863 919-003	50
		1.0–2.5	1.6	CuZn/Sn	B 162	8KW 863 919-013	50
<b>Male connector-type connection Type III for M series</b>  	Female socket connector	0.75–1.5	1.6	CuZn/Sn	B 196	8KW 863 945-003	50
		0.2–0.56	1.6	CuSn/Sn	B 197	8KW 863 945-013	50
	Male pin connector	0.75–1.5	1.6	CuZn/Sn	B 185	8KW 863 929-003	50
		0.2–0.56	1.6	CuSn/Sn	B 186	8KW 863 929-013	50
<b>Male connector-type connection CI 2</b>  	Female socket connector	0.5–1.0	1.6	CuSn/Sn	B 157	8KW 863 917-013	50
		1.0–2.5	1.6	CuSn/Sn	B 158	8KW 863 917-003	50
	Male pin connector	0.5–1.5	1.6	CuZn/Sn	B 171	8KW 863 924-003	50
		1.0–2.5	1.6	CuZn/Sn	B 172	8KW 863 924-013	50
<b>Male connector-type connection Mate-N-Lock</b>  	Female socket connector	0.5–1.0	2.1	CuZn/Sn	B 155	8KW 863 916-003	50
		1.0–2.5	2.1	CuZn/Sn	B 156	8KW 863 916-013	50



	Description	Cross-section mm <sup>2</sup>	Male connector dimensions mm	Material/Surface finish	Short reference	Part number	PU in pcs.
<b>Male connector-type connection Mate-N-Lock</b> 	Male pin connector	0.5–1.0	2.1	CuZn/Sn	B 207	8KW 863 915-013	50
		1.0–2.5	2.1	CuZn/Sn	B 154	8KW 863 915-003	50
<b>Male connector-type connection Universal Mate-N-Lock</b> 	Female socket connector	0.5–2.1	2.1	CuSn/Sn	B 169	8KW 863 923-003	50
		1.5–2.5	2.1	CuZn/Sn	B 170	8KW 863 923-013	50
	Male pin connector	0.5–2.1	2.1	CuZn/Sn	B 167	8KW 863 922-003	50
		1.5–2.5	2.1	CuZn/Sn	B 168	8KW 863 922-013	50
<b>Cable lug for CONI round male connector system</b> 	Sleeve	0.75–1.5	Ø 1.6	CuZn/frSn	B 70	8KW 054 946-003	50
		1.5–2.5	Ø 1.6	CuZn/frSn	B 116	8KW 744 864-003	50
	Male pin connector	0.75–1.5	Ø 1.6	CuSn/frSn	B 71	8KW 054 945-003	50
		1.5–2.5	Ø 1.6	CuZn/frSn	B 117	8KW 744 866-003	50
<b>RAM round male connector system</b> 	Female sleeve connector	1.5–2.5	Ø 3.5	CuZn/frSn	B 72	8KW 054 948-003	50
		4.0–6.0	Ø 3.5	CuSn/frSn	B 215	8KW 054 948-013	50
	Male connector	1.5–2.5	Ø 3.5	CuSn/frSn	B 73	8KW 054 947-003	50
		4.0–6.0	Ø 3.5	CuSn/frSn	B 214	8KW 054 947-013	50



### 3. Cable connectors


#### 3.1 Crimp connectors



	Description	Cross-section mm <sup>2</sup>	Male connector dimensions mm	Material/Surface finish	Short reference	Part number	PU in pcs.
<b>RSA round male connector system</b> 	Female sleeve connector	1.5–2.5	Ø 1.6	CuSn/frSn	B 74	8KW 054 950-003	50
	Male pin connector	1.5–2.5	Ø 1.6	CuSn/frSn	B 75	8KW 054 949-003	50
<b>MDK5 female blade connector</b> 	Flat female connector	0.5–1.0	2.8/4.8 x 0.8	CuSn/frSn	B 76	8KW 054 942-003	50
		1.5–2.5	2.8/4.8 x 0.8	CuSn/frSn	B 77	8KW 054 941-003	50
<b>DFK 2 female blade connector</b> 	Flat female connector	1.5–2.5	4.8 + 6.3 x 0.8	CuSn/frSn	B 78	8KW 054 944-003	50
		2.5–4.0	4.8 + 6.3 x 0.8	CuSn/frSn	B 79	8KW 054 943-003	50
<b>AFK 4.8 blade sleeve (claw 90° turned to DFK)</b> 	Flat female connector	0.5-1.0	4.8 + 6.3 x 0.8	CuFe/frSn	B 217	▶ 8KW 172 971-002	50
						▶ 8KW 172 971-003	1000

▶ New in the range

	Cross-section mm <sup>2</sup>	Eyelet hole Ø mm	Nominal size acc. to DIN	Contents in pcs.	Short reference	Part number	PU in pcs.
<b>Solder-free cable lugs DIN 46234</b> 	>1.0–2.5	3.2 (M3)	3–2.5	100	B 118	8KW 744 708-003	100
	>1.0–2.5	4.3 (M4)	4–2.5	100	B 119	8KW 744 709-003	100
	>1.0–2.5	5.3 (M5)	5–2.5	100	B 120	8KW 744 710-003	100
	>1.0–2.5	6.5 (M6)	6–2.5	100	B 121	8KW 744 711-003	100
	>2.5–6.0	4.3 (M4)	4–6	100	B 122	8KW 744 712-003	100
	>2.5–6.0	5.3 (M5)	5–6	100	B 123	8KW 744 713-003	100
	>2.5–6.0	6.5 (M6)	6–6	100	B 124	8KW 744 714-003	100
	>2.5–6.0	8.4 (M8)	8–6	50	B 125	8KW 744 715-003	50










	Cross-section mm <sup>2</sup>	Eyelet hole Ø mm	Nominal size acc. to DIN	Contents in pcs.	Short reference	Part number	PU in pcs.
	>6.0–10.0	5.3 (M5)	5–10	50	B 126	8KW 744 716-003	50
	>6.0–10.0	6.5 (M6)	6–10	50	B 127	8KW 744 717-003	50
	>6.0–10.0	8.4 (M8)	8–10	50	B 128	8KW 744 718-003	50
	>6.0–10.0	10.5 (M10)	10–10	50	B 129	8KW 744 719-003	50
	>10.0–16.0	5.3 (M5)	5–16	50	B 130	8KW 744 720-003	50
	>10.0–16.0	6.5 (M6)	6–16	50	B 131	8KW 744 721-003	50
	>10.0–16.0	8.4 (M8)	8–16	50	B 132	8KW 744 722-003	50
	>10.0–16.0	10.5 (M10)	10–16	50	B 133	8KW 744 723-003	50
	>16.0–25.0	6.5 (M6)	6–25	25	B 134	8KW 744 724-003	25
	>16.0–25.0	8.4 (M8)	8–25	25	B 135	8KW 744 725-003	25
	>16.0–25.0	10.5 (M10)	10–25	25	B 136	8KW 744 726-003	25
	>25.0–35.0	6.5 (M6)	6–35	25	B 137	8KW 744 727-003	25
	>25.0–35.0	8.4 (M8)	8–35	25	B 138	8KW 744 728-003	25
	>25.0–35.0	10.5 (M10)	10–35	25	B 139	8KW 744 729-003	25
	>35.0–50.0	8.4 (M8)	8–50	10	B 140	8KW 744 730-003	10
	>35.0–50.0	10.5 (M10)	10–50	10	B 141	8KW 744 731-003	10
>35.0–50.0	13.0 (M12)	12–50	10	B 142	8KW 744 732-003	10	
>50.0–70.0	8.4 (M8)	8–70	10	B 148	8KW 746 778-003	10	
>50.0–70.0	10.5 (M10)	10–70	10	B 149	8KW 746 779-003	10	
>50.0–70.0	13.0 (M12)	12–70	10	B 153	8KW 746 783-003	10	
>70.0–95.0	10.5 (M10)	10–95	2	B 150	8KW 746 780-003	2	
>70.0–95.0	13.0 (M12)	12–95	2	B 151	8KW 746 781-003	2	
>95.0–120.0	13.0 (M12)	12–120	2	B 152	8KW 746 782-003	2	

	Cross-section mm <sup>2</sup>	Male connector dimensions mm	Material/ Surface finish	Contents in pcs.	Short reference	Part number	PU in pcs.
<b>Female spade connector</b>	0.5–1.0	4.8 x 0.8	CuZn/bk	100	B 94	8KW 744 828-003	100
	0.75–1.5	6.3 x 0.8	CuZn/bk	100	B 51	8KW 043 629-013	100
	1.5–2.5	6.3 x 0.8	CuZn/Ag	100	B 92	8KW 744 825-003	100
	1.5–2.5	6.3 x 0.8	CuZn/bk	100	B 52	8KW 043 630-013	100
	1.5–2.5	6.3 x 0.8	CuZn/bk	1500		8KW 043 630-014	1500
	4.0–6.0	9.5 x 1.2	CuZn/bk	50	B 95	8KW 744 787-003	50
	0.5–1.5	6.3 x 0.8	CuSn/Sn	100	B 93	8KW 744 827-003	100
							



### 3. Cable connectors

#### 3.1 Crimp connectors

	Cross-section mm <sup>2</sup>	Male connector dimensions mm	Material/ Surface finish	Short reference	Part number	PU in pcs.	
<b>Female spade connector with locking tag</b>	0.5–1.0	2.8 x 0.8	CuSn/Sn	B 100	8KW 744 817-003	100	
		4.8 x 0.8	CuZn/Sn	B 64	8KW 733 815-003	100	
		6.3 x 0.8	CuZn/bk	B 103	8KW 744 819-003	100	
	1.5–2.5	6.3 x 0.8	CuZn/Sn	B 54	8KW 701 235-033	100	
		6.3 x 0.8	CuZn/Sn		8KW 701 235-034	1500	
	Solder pin	6.3 x 0.8	CuSn/frSn		8KW 719 874-007	2500	
	1.5–2.5	6.3 x 0.8	CuZn/Ag	B 104	8KW 744 820-003	100	
		6.3 x 0.8	CuSn/Ag	B 105	8KW 744 821-003	100	
<b>Male spade connectors</b>	0.5–1.0	2.8 x 0.8	CuZn/bk	B 85	8KW 744 752-003	100	
	0.5–1.0	6.3 x 0.8	CuZn/Sn	B 56	8KW 043 635-013	100	
	1.5–2.5	6.3 x 0.8	CuZn/bk	B 86	8KW 744 823-003	100	
	<b>Male blade connector with locking tag</b>	0.5–1.0	2.8 x 0.8	CuZn/Sn	B 90	8KW 744 834-003	100
		0.5–1.0	6.3 x 0.8	CuZn/frSn	B 88	8KW 744 832-003	100
		1.5–2.5	6.3 x 0.8	CuZn/frSn	B 57	8KW 048 056-033	100
		1.5–2.5	6.3 x 0.8	CuZn/Ag	B 89	8KW 744 833-003	100
	<b>Piggy back spade connector</b>	0.5–1.0	6.3 x 0.8	CuZn/bk	B 58	8KW 701 671-003	100
		1.5–2.5	6.3 x 0.8	CuZn/Sn	B 82	8KW 744 885-003	100
	<b>Double piggy back spade connector</b>		6.3 x 0.8	CuZn/bk	B 59	8KW 043 636-003	100
	<b>Triple spade connector</b>		6.3 x 0.8	CuZn/Sn	B 60	8KW 700 144-003	50
	<b>Coupling 45°</b>		6.3 x 0.8 Ø 4.2	CuZn/Sn	B 213	8KW 044 285-023	100





	Cross-section mm <sup>2</sup>	Male connector dimensions mm	Description	Quantity in the assortment	Short reference	Part number	PU spares
<b>Insulating sleeves</b> 	for female spade connectors 6.3 x 0.8			50	B 63	8KX 707 925-003	50
	for male spade connectors 6.3 x 0.8			50	B 62	8KX 707 924-003	50
<b>Crimp connector assortment, non-insulated</b> 	Case containing an assortment of different non-insulated connectors  (quantity delivered in refill set differs from the quantity in the original set, and not all items can be refilled)					8KW 009 255-801	1
<b>Spare parts for crimp connector assortment, non-insulated</b>	0.5–1.0	2.8 x 0.8	Female spade connector with locking tag	50	B 100	8KW 744 817-003	100
		4.8 x 0.8		50	B 64	8KW 733 815-003	100
		6.3 x 0.8		50	B 103	8KW 744 819-003	100
	1.5–2.5	6.3 x 0.8	Female spade connector with locking tag	50	B 54	8KW 701 235-033	100
		6.3 x 0.8	Female spade connector with tag, claw across	20	B 105	8KW 744 821-003	100
	0.5–1.0	2.8 x 0.8	Male spade connector with locking tag	50	B 90	8KW 744 834-003	100
		6.3 x 0.8		50	B 88	8KW 744 832-003	100
	1.5–2.5	6.3 x 0.8	Male blade connector with locking tag	50	B 57	8KW 048 056-033	100
	0.5–1.0	4.8 x 0.8	Female spade connector	50	B 94	8KW 744 828-003	100
	0.75–1.5	6.3 x 0.8		50	B 51	8KW 043 629-013	100
	0.5–1.5	6.3 x 0.8	Female spade connector claw across	20	B 93	8KW 744 827-003	100
	1.5–2.5	6.3 x 0.8	Female spade connector	50	B 52	8KW 043 630-013	100
	4.0–6.0	9.5 x 1.2		50	B 95	8KW 744 787-003	50
1.5–2.5	6.3 x 0.8	Male spade connector	50	B 86	8KW 744 823-003	100	
	6.3 x 0.8	Double piggy back spade connector	20	B 59	8KW 043 636-003	100	
	6.3 x 0.8	Triple spade connector	20	B 60	8KW 700 144-003	50	
1.5–2.5	6.3 x 0.8	Piggy back spade connector	20	B 82	8KW 744 885-003	100	
	6.3 x 0.8	Male spade connector, 45°	20				
		Male spade connector, Ø 5.3 mm Coupling	20				









### 3. Cable connectors



#### 3.1 Crimp connectors


**Duraseal** – fully insulated cable entry – shrinkable nylon cap with adhesive for a waterproof connection.

The nylon cap must be shrunk using a hot-air gun or other source of heat – shrinking temperature 135 °C.

3.1.2 Insulated crimp connectors with shrink insulation (Duraseal)	Colour	Cross-section mm <sup>2</sup>	Male connector dimensions mm	Insulating material	Short reference	Part number	PU in pcs.
<b>Female spade connector fully insulated</b>  	■	0.5–1.0	2.8 x 0.5	Nylon	A 161	8KW 744 761-003	25
	■	0.5–1.0	4.8 x 0.5	Nylon	A 162	8KW 744 762-003	25
	■	0.5–1.0	6.3 x 0.8	Nylon	A 100	8KW 732 566-003	25
	■	1.5–2.5	6.3 x 0.8	Nylon	A 101	8KW 732 567-003	25
	■	4.0–6.0	6.3 x 0.8	Nylon	A 163	8KW 744 763-003	25
<b>Male spade connector</b>  	■	0.5–1.0	6.3 x 0.8	Nylon	A 102	8KW 732 568-003	25
	■	1.5–2.5	6.3 x 0.8	Nylon	A 103	8KW 732 569-003	25
<b>Ring connector</b>      	■	0.5–1.0	4.3 (M4)	Nylon	A 104	8KW 732 570-003	25
	■	0.5–1.0	5.3 (M5)	Nylon	A 106	8KW 732 572-003	25
	■	1.5–2.5	4.3 (M4)	Nylon	A 105	8KW 732 571-003	25
	■	1.5–2.5	5.3 (M5)	Nylon	A 107	8KW 732 573-003	25
	■	1.5–2.5	6.5 (M6)	Nylon	A 109	8KW 732 575-003	25
	■	1.5–2.5	8.4 (M8)	Nylon	A 111	8KW 732 577-003	25
	■	1.5–2.5	10.5 (M10)	Nylon	A 154	8KW 744 754-003	25
	■	4.0–6.0	5.3 (M5)	Nylon	A 108	8KW 732 574-003	25
	■	4.0–6.0	6.5 (M6)	Nylon	A 110	8KW 732 576-003	25
	■	4.0–6.0	8.4 (M8)	Nylon	A 112	8KW 732 578-003	25
<b>Male bullet connector</b>  	■	0.5–1.0	Ø 4.0	Nylon	A 165	8KW 744 765-003	25
	■	1.5–2.5	Ø 5.0	Nylon	A 166	8KW 744 766-003	25



	Colour	Cross-section mm <sup>2</sup>	Male connector dimensions mm	Insulating material	Contents in pcs.	Short reference	Part number	PU in pcs.
<b>Female bullet connectors fully insulated</b> 	■	0.5–1.0	Ø 4.0	Nylon	25	A 167	8KW 744 767-003	25
	■	1.5–2.5	Ø 5.0	Nylon	25	A 168	8KW 744 768-003	25
<b>Insulating splice connector</b> 	■	0.5–1.0		Nylon	25	A 113	8KW 732 579-003	25
	■	1.5–2.5		Nylon	25	A 114	8KW 732 580-003	25
	■	4.0–6.0		Nylon	25	A 115	8KW 732 581-003	25

	Cross-section mm <sup>2</sup>	Insertion width mm/Eyelet	Description	Short reference	Quantity in the assortment	Part number	PU in pcs.
<b>Crimp connector assortment, Duraseal</b> 	Case containing an assortment of different Duraseal crimp connectors  (quantity delivered as refill set differs from the quantity in the original set and not all items can be refilled)					8KW 009 253-801	1

<b>Replacement parts for crimp connector assortment, Duraseal</b>	0.5–1.0		Insulating splice connector	A 113	15	8KW 732 579-003	25
	1.5–2.5			A 114	15	8KW 732 580-003	25
	4.0–6.0			A 115	15	8KW 732 581-003	25
	0.5–1.0	6.3 x 0.8	Female spade connector	A 100	15	8KW 732 566-003	25
	1.5–2.5	6.3 x 0.8		A 101	15	8KW 732 567-003	25
	0.5–1.0	6.3 x 0.8	Male spade connector	A 102	15	8KW 732 568-003	25
	1.5–2.5	6.3 x 0.8		A 103	15	8KW 732 569-003	25
	1.5–2.5	Ø 5.0	Female bullet connector	A 168	15	8KW 744 768-003	25
	1.5–2.5	Ø 5.0	Male bullet connector	A 166	15	8KW 744 766-003	25
	1.5–2.5	M5	Ring connector	A 107	15	8KW 732 573-003	25
	1.5–2.5	M6		A 109	15	8KW 732 575-003	25
	1.5–2.5	M8		A 111	15	8KW 732 577-003	25
	4.0–6.0	M5		A 108	15	8KW 732 574-003	25
	4.0–6.0	M6		A 110	15	8KW 732 576-003	25
		1.5–2.5		M4	Fork connector		15
	1.5–2.5	M5	Fork connector		15		



### 3. Cable connectors







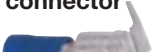


#### 3.1 Crimp connectors

**Insulated crimp connectors** are crimped using a crimping tool at the end of the cable. The insulation material is made of PVC. This stands out due to a temperature load capacity of max. 80°C. Cable entries are shaped as easy-entry funnels in the insulating sleeve to guarantee easier cable insertion.







**Code colour red** = Crimping connector for cable cross-section 0.5–1.0 mm<sup>2</sup>

**Code colour blue** = Crimping connection for cable cross-section 1.5–2.5 mm<sup>2</sup>

**Code colour yellow** = Crimping connection for cable cross-section 4.0–6.0 mm<sup>2</sup>

3.1.3 Insulated crimp connectors	Colour	Cross-section mm <sup>2</sup>	Male connector dimensions mm	Insulating material	Contents in pcs.	Short description	Part number	PU in pcs.
<b>Female spade connectors</b> 	■	0.5–1.0	2.8 x 0.5	PVC	10	A 01	8KW 705 393-812	1
	■	0.5–1.0	2.8 x 0.5	PVC	100	A 50	8KW 705 393-003	100
	■	0.5–1.0	4.8 x 0.5	PVC	100	A 51	8KW 705 392-003	100
	■	0.5–1.0	6.3 x 0.8	PVC	15	A 03	8KW 044 036-812	1
	■	0.5–1.0	6.3 x 0.8	PVC	100	A 52	8KW 044 036-003	100
	■	0.5–1.0	6.3 x 0.8	PVC	1000		8KW 044 036-004	1000
	■	1.5–2.5	4.8 x 0.5	PVC	100	A 136	8KW 744 697-003	100
	■	1.5–2.5	4.8 x 0.8	PVC	100	A 137	8KW 744 698-003	100
	■	1.5–2.5	6.3 x 0.8	PVC	15	A 04	8KW 044 022-822	1
	■	1.5–2.5	6.3 x 0.8	PVC	100	A 53	8KW 044 022-003	100
	■	1.5–2.5	6.3 x 0.8	PVC	1000		8KW 044 022-004	1000
	■	1.5–3.0	7.7 x 0.8	PVC	50	A 55	8KW 044 024-003	50
	■	4.0–6.0	6.3 x 0.8	PVC	50	A 54	8KW 044 023-003	50
	■	4.0–6.0	6.3 x 0.8	PVC	1000		8KW 044 023-004	1000
	■	4.0–6.0	9.5 x 1.2	PVC	50	A 56	8KW 700 142-003	50
<b>Female spade connectors, fully insulated</b> 	■	0.5–1.0	6.3 x 0.8	PVC	50	A 82	8KW 708 373-003	50
	■	0.5–1.0	6.3 x 0.8	PVC	1000		8KW 708 373-004	1000
	■	1.5–2.5	6.3 x 0.8	PVC	8	A 19	8KW 708 374-812	1
	■	1.5–2.5	6.3 x 0.8	PVC	50	A 83	8KW 708 374-003	50
	■	1.5–2.5	6.3 x 0.8	PVC	1000		8KW 708 374-004	1000
<b>Male spade connector</b> 	■	0.5–1.0	2.8 x 0.8	PVC	100	A 138	8KW 744 699-003	100
	■	0.5–1.0	6.3 x 0.8	PVC	100	A 59	8KW 702 796-003	100
	■	1.5–2.5	6.3 x 0.8	PVC	15	A 07	8KW 044 288-812	1
	■	1.5–2.5	6.3 x 0.8	PVC	100	A 60	8KW 044 288-003	100
	■	4.0–6.0	6.3 x 0.8	PVC	50	A 139	8KW 744 700-003	50
<b>Male spade connectors fully insulated</b> 	■	0.5–1.5	6.3 x 0.8	PVC	50	A 140	8KW 744 703-003	50
	■	1.5–2.5	6.3 x 0.8	PVC	50	A 141	8KW 744 704-003	50
	■	4.0–6.0	6.3 x 0.8	PVC	25	A 142	8KW 744 705-003	25
for 8KV 744 858-003 to 8KV 744 860-003								
<b>Piggy back spade connector</b> 	■	0.5–1.0	6.3 x 0.8	PVC	50	A 57	8KW 700 143-003	50
	■	1.5–2.5	6.3 x 0.8	PVC	50	A 58	8KW 044 032-003	50
	■	1.5–2.05	6.3 x 0.8	PVC	1000		8KW 044 032-004	1000
<b>Male bullet connector</b> 	■	0.5–1.0	Ø 4.0	PVC	100	A 61	8KW 044 040-003	100
	■	0.5–1.0	Ø 4.0	PVC	1000		8KW 044 040-004	1000
	■	1.5–2.5	Ø 5.0	PVC	100	A 62	8KW 044 025-003	100
	■	4.0–6.0	Ø 5.0	PVC	50	A 143	8KW 744 733-003	50
<b>Female bullet connectors</b> 	■	0.5–1.0	Ø 4.0	PVC	10	A 10	8KW 045 145-812	1
	■	0.5–1.0	Ø 4.0	PVC	50	A 63	8KW 045 145-003	50
	■	1.5–2.5	Ø 5.0	PVC	50	A 64	8KW 044 026-003	50
	■	4.0–6.0	Ø 5.0	PVC	50	A 144	8KW 744 734-003	50








	Colour	Cross-section mm <sup>2</sup>	Eyelet hole mm	Insulating material	Contents in pcs.	Short reference	Part number	PU in pcs.	
<b>Ring connector</b> 	■	0.5–1.0	3.2 (M3)	PVC	100	A 65	8KW 044 275-003	100	
	■	0.5–1.0	4.3 (M4)	PVC	100	A 67	8KW 044 276-003	100	
	■	0.5–1.0	5.3 (M5)	PVC	100	A 69	8KW 044 291-003	100	
	■	0.5–1.0	6.5 (M6)	PVC	100	A 116	8KW 744 772-003	100	
	■	0.5–1.0	8.4 (M8)	PVC	50	A 117	8KW 744 773-003	50	
	■	0.5–1.0	10.5 (M10)	PVC	50	A 118	8KW 744 774-003	50	
	■	1.5–2.5	3.7	PVC	100	A 66	8KW 044 041-003	100	
	■	1.5–2.5	4.3 (M4)	PVC	100	A 68	8KW 044 028-003	100	
	■	1.5–2.5	5.3 (M5)	PVC	100	A 70	8KW 044 027-003	100	
	■	1.5–2.5	6.5 (M6)	PVC	12	A 15	8KW 044 039-812	1	
	■	1.5–2.5	6.5 (M6)	PVC	100	A 72	8KW 044 039-003	100	
	■	1.5–2.5	8.4 (M8)	PVC	50	A 74	8KW 044 277-003	50	
	■	1.5–2.5	10.5 (M10)	PVC	50	A 119	8KW 744 775-003	50	
		■	4.0–6.0	4.3 (M4)	PVC	50	A 120	8KW 744 776-003	50
		■	4.0–6.0	5.3 (M5)	PVC	50	A 71	8KW 044 029-003	50
		■	4.0–6.0	6.5 (M6)	PVC	50	A 73	8KW 044 030-003	50
		■	4.0–6.0	8.4 (M8)	PVC	50	A 75	8KW 044 031-003	50
		■	4.0–6.0	10.5 (M10)	PVC	50	A 76	8KW 044 038-003	50
		■	0.5–1.0	3.2 (M3)	Nylon	100	A178	▶ 8KW 178 042-002	100
		■	0.5–1.0	4.3 (M4)	Nylon	100	A179	▶ 8KW 178 042-012	100
		■	0.5–1.0	5.3 (M5)	Nylon	100	A180	▶ 8KW 178 042-022	100
		■	0.5–1.0	6.5 (M6)	Nylon	100	A181	▶ 8KW 178 042-032	100
		■	0.5–1.0	8.4 (M8)	Nylon	50	A182	▶ 8KW 178 042-042	100
	■	0.5–1.0	10.5 (M10)	Nylon	50	A183	▶ 8KW 178 042-052	50	
		■	1.5–2.5	3.7	Nylon	100	A184	▶ 8KW 178 042-102	100
■		1.5–2.5	4.3 (M4)	Nylon	100	A185	▶ 8KW 178 042-112	100	
■		1.5–2.5	5.3 (M5)	Nylon	100	A186	▶ 8KW 178 042-122	100	
■		1.5–2.5	6.5 (M6)	Nylon	100	A187	▶ 8KW 178 042-132	100	
■		1.5–2.5	8.4 (M8)	Nylon	50	A188	▶ 8KW 178 042-142	50	
■		1.5–2.5	10.5 (M10)	Nylon	50	A189	▶ 8KW 178 042-152	50	
■		1.5–2.5	10.5 (M10)	PVC	50	A 119	8KW 744 775-003	50	
		■	4.0–6.0	4.3 (M4)	Nylon	50	A190	▶ 8KW 178 042-202	50
	■	4.0–6.0	5.3 (M5)	Nylon	50	A191	▶ 8KW 178 042-212	50	
	■	4.0–6.0	6.5 (M6)	Nylon	50	A192	▶ 8KW 178 042-222	50	
	■	4.0–6.0	8.4 (M8)	Nylon	50	A193	▶ 8KW 178 042-232	50	
	■	4.0–6.0	10.5 (M10)	Nylon	50	A194	▶ 8KW 178 042-242	50	
	<b>Fork connector</b>								
	■	0.5–1.0	3.2 (M3)	Nylon	100	A201	▶ 8KW 178 045-002	100	
	■	0.5–1.0	5.3 (M5)	Nylon	100	A202	▶ 8KW 178 045-012	100	
	■	1.5–2.5	5.3 (M5)	Nylon	50	A203	▶ 8KW 178 045-102	50	
	■	1.5–2.5	6.5 (M6)	Nylon	50	A204	▶ 8KW 178 045-112	50	
	■	4.0–6.0	5.3 (M5)	Nylon	50	A205	▶ 8KW 178 045-202	50	
	■	4.0–6.0	6.5 (M6)	Nylon	50	A206	▶ 8KW 178 045-212	50	
■	4.0–6.0	8.4 (M8)	Nylon	50	A207	▶ 8KW 178 045-222	50		

▶ New in the range



### 3. Cable connectors

#### 3.1 Crimp connectors










	Colour	Cross-section mm <sup>2</sup>	Male connector dimensions mm	Insulating material	Contents in pcs.	Short reference	Part number	PU in pcs.
<b>Pin connector</b> 	■	0.5–1.0	Ø 1.9	Nylon	100	A198	▶ 8KW 178 044-002	100
	■	1.5–2.5	Ø 1.9	Nylon	100	A199	▶ 8KW 178 044-012	100
	■	4.0–6.0	Ø 2.7	Nylon	50	A200	▶ 8KW 178 044-022	50
<b>Insulating splice connector</b> 	■	0.5–1.0		PVC	100	A 79	8KW 044 280-003	100
	■	0.5–1.0		PVC	1000		8KW 044 280-004	1000
	■	1.5–2.5		PVC	12	A 17	8KW 044 033-812	1
	■	1.5–2.5		PVC	100	A 80	8KW 044 033-002	100
	■	1.5–2.5		PVC	1000		8KW 044 033-004	1000
	■	4.0–6.0		PVC	50	A 81	8KW 044 034-003	50
	■	0.5–1.0		Nylon	100	A195	▶ 8KW 178 043-002	100
	■	1.5–2.5		Nylon	50	A196	▶ 8KW 178 043-012	50
	■	4.0–6.0		Nylon	50	A197	▶ 8KW 178 043-022	50
<b>Assortment of cable connectors: 5 snap cable connectors and 5 male spade connectors</b> 	■	1.0–1.5	6.3 x 0.8	PVC	10	I 11	8KV 713 222-812	1
							▶ New in the range	
	Cross-section mm <sup>2</sup>	Insertion width mm/Eyelet	Description	Short reference	Quantity in the assortment	Part number	PU in pcs.	
<b>Crimp connectors, insulated</b> Case containing an assortment of various crimping connectors, snap-lock connector, coupling and crimping tool (quantity delivered as refill set differs from the quantity in the original set) 						8KW 009 254-801	1	
<b>Replacement parts for crimp connector assortment, insulated</b>	0.5–1.0	Ø 4.0	Female bullet connector	A 63	20	8KW 045 145-003	50	
	0.5–1.0	Ø 4.0	Male bullet connector	A 61	20	8KW 044 040-003	100	



	Cross-section mm <sup>2</sup>	Insertion width mm/Eyelet	Description	Short reference	Quantity in the assortment	Part number	PU in pcs.
	0.5–1.0	2.8 x 0.5	Female spade connector	A 50	20	8KW 705 393-003	100
	0.5–1.0	6.3 x 0.8		A 52	20	8KW 044 036-003	100
	0.5–1.0	6.3 x 0.8	Female spade connector fully insulated	A 82	20	8KW 708 373-003	50
	1.5–2.5	6.3 x 0.8	Female spade connector	A 53	20	8KW 044 022-003	100
	0.5–1.0	6.3 x 0.8	Male spade connectors	A 59	20	8KW 702 796-003	100
	1.5–2.5	6.3 x 0.8		A 60	20	8KW 044 288-003	100
	0.5–1.0	M4	Ring connector	A 67	20	8KW 044 276-003	100
	0.5–1.0	M5		A 69	20	8KW 044 291-003	100
	1.5–2.5	M4		A 68	20	8KW 044 028-003	100
	1.5–2.5	M5		A 70	20	8KW 044 027-003	100
	1.5–2.5	M6		A 72	20	8KW 044 039-003	100
	4.0–6.0	M5		A 71	20	8KW 044 029-003	50
	4.0–6.0	M6		A 73	20	8KW 044 030-003	50
	1.5–2.5			Insulating splice connector	A 80	20	8KW 044 033-002
	1.5–2.5	M5	Fork connector	A 78	20	8KW 044 037-003	100
	1.5–2.5	2.8 x 0.5	Piggy back spade connector	A 58	20	8KW 044 032-003	50
			Snap-lock connectors	I 50	20	8KW 705 123-002	25
		6.3 x 0.8	Coupling	A 84	20	8KW 044 035-003	25
			Crimping tool	1	1	8PE 002 006-001	1

**Cable end ferrules** avoid the individual wires of multi-wire copper cables splaying-out and make it easier to insert them into terminals.

The range complies with DIN 46 228-4 in design and dimensions. The material is made of copper with nickel-coated surface and a plastic sleeve made of PVC.

<b>3.1.4 Cable end ferrules</b>	Colour	Cross-section mm <sup>2</sup>	overall length/ length of metal sleeve	Contents n pcs.	Short reference	Part number	PU in pcs.
<b>Cable end ferrules</b>		0.5	14.0/8.0 mm	100	A 145	8KW 744 839-003	100
		0.75	14.0/8.0 mm	100	A 146	8KW 744 840-003	100
		1	14.6/8.2 mm	100	A 147	8KW 744 841-003	100
		1.5	14.6/8.2 mm	100	A 148	8KW 744 842-003	100
		2.5	15.2/8.2 mm	100	A 149	8KW 744 843-003	100
		4	16.5/9.0 mm	50	A 150	8KW 744 844-003	50
		6	20.0/12.0 mm	100	A 151	8KW 744 845-003	100
		10	21.5/12.0 mm	100	A 152	8KW 744 846-003	100
		16	22.2/12.0 mm	50	A 153	8KW 744 847-003	50








### 3. Cable connectors

#### 3.2 Solder connectors


For cables sensitive to temperature, where soldering is not possible. The shrink solder connector is shrunk with a hot-air gun, but preferably with the reflector. During this process, the integrated solder tin ring and two sealing rings at the side that are coated with adhesive, shrink.


After heating, the connection is soldered, insulated, sealed and has no mechanical load. Suitable as high-quality connection for individual cable and for earthing the sheathing on coaxial cables.

3.2.1. CWT solder connectors	Colour	Cross-section mm <sup>2</sup>	Ø max. insulation mm	Contents in pcs.	Short reference	Part number	PU in pcs.
<b>CWT solder connectors</b> 	transparent	2 x 0.3-0.8	1.7	50	A 177	8KW 744 890-013	50
	■	2 x 0.8-2.0	2.7	50	A 174	8KW 744 887-013	50
	■	2 x 2.0-4.0	4.5	50	A 175	8KW 744 888-013	50
	■	2 x 4.0-6.0	6	50	A 176	8KW 744 889-013	50

3.2.2 Shrink solder connectors	Colour	Cross-section mm <sup>2</sup>	Ø Bundle mm	Contents in pcs.	Short reference	Part number	PU in pcs.
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Shrink solder connectors are end connectors for multi-wire cables. They represent a reliable alternative to end connectors that can be crimped and welded.

<b>Shrink solder connectors</b> 	■	0.7-2.4	3.3	20	A208	▶ 8KW 177 727-002	20
	■	2.0-4.0	4.5	20	A209	▶ 8KW 177 727-012	20
	■	3.5-9.0	7.0	20	A210	▶ 8KW 177 727-112	20
	■	7.5-12.0	9.0	20	A211	▶ 8KW 177 727-212	20

3.2.3 Solder connectors according to DIN 46211	Cross-section mm <sup>2</sup>	Eyelet hole Ø mm	Nominal size acc. to DIN	Contents in pcs.	Short reference	Part number	PU in pcs.
<b>Solder connectors according to DIN 46211</b> 	>1.0-2.5	5.3 (M5)	5-2.5	100	B 219	▶ 8KW 177 784-002	100
	>1.0-2.5	6.5 (M6)	6-2.5	100	B 220	▶ 8KW 177 784-012	100
	>2.5-6.0	6.5 (M6)	6-6	50	B 221	▶ 8KW 177 784-102	50
	>2.5-6.0	8.4 (M8)	8-6	50	B 222	▶ 8KW 177 784-112	50
	>2.5-6.0	10.5 (M10)	10-6	50	B 223	▶ 8KW 177 784-122	50

▶ New in the range



	Cross-section mm <sup>2</sup>	Eyelet hole Ø mm	Nominal size acc. to DIN	Contents in pcs.	Short reference	Part number	PU in pcs.
	>6.0-10.0	6.5 (M6)	6-10	25	B 224	8KW 177 784-202	25
	>6.0-10.0	8.4 (M8)	8-10	25	B 225	8KW 177 784-212	25
	>6.0-10.0	10.5 (M10)	10-10	25	B 226	8KW 177 784-222	25
	>10.0-16.0	6.5 (M6)	6-16	20	B 227	8KW 177 784-302	20
	>10.0-16.0	8.4 (M8)	8-16	20	B 228	8KW 177 784-312	20
	>10.0-16.0	10.5 (M10)	10-16	20	B 229	8KW 177 784-322	20
	>10.0-16.0	13.0 (M12)	12-16	20	B 230	8KW 177 784-332	20
	>16.0-25.0	8.4 (M8)	8-25	10	B 231	8KW 177 784-402	10
	>16.0-25.0	10.5 (M10)	10-25	10	B 232	8KW 177 784-412	10
	>16.0-25.0	13.0 (M12)	12-25	10	B 233	8KW 177 784-422	10
	>10.0-16.0	13.0 (M12)	12-16	20	B 230	8KW 177 784-332	20
	>25.0-35.0	8.4 (M8)	8-35	10	B 234	8KW 177 784-502	10
	>25.0-35.0	10.5 (M10)	10-35	10	B 235	8KW 177 784-512	10
	>25.0-35.0	13.0 (M12)	12-35	10	B 236	8KW 177 784-522	10
	>35.0-50.0	10.5 (M10)	10-50	5	B 237	8KW 177 784-602	5
	>35.0-50.0	13.0 (M12)	12-50	5	B 238	8KW 177 784-612	5
	>50.0-70.0	10.5 (M10)	10-70	5	B 239	8KW 177 784-702	5
	>50.0-70.0	13.0 (M12)	12-70	5	B 240	8KW 177 784-712	5





### 3. Cable connectors

#### 3.3 Cable junction boxes/Cable connectors

3.3.1 Cable junction boxes	Description	Protective class	Dimensions	Pins	Contents in pcs.	Part number	PU in pcs.
<b>Cable junction boxes</b>	Cable junction box, with threaded terminal ends for cables up to 6 mm <sup>2</sup> = Ø 4.3 mm	IP 52	125 x 73 x 43	6-pin	1	8KV 002 142-031	1
	Cable junction box, with threaded terminal end for cables up to 6 mm <sup>2</sup> = Ø 3.5 mm	IP 52	125 x 73 x 43	8-pin	1	8KV 002 143-031	1
	Cable junction box with 8 x 2 male spade connections (6.3 x 0.8 mm)	IP 52	125 x 73 x 43	8-pin	1	8KV 002 144-031	1
	Cable junction box with 8 x 4 male spade connections (6.3 x 0.8 mm)	IP 52	125 x 73 x 43	8-pin	1	8KV 002 145-031	1
<b>Cable junction boxes</b>	Cable junction box, with threaded terminal ends for cables up to 6 mm <sup>2</sup> = Ø 3.5 mm	IP 52	140 x 90 x 58	16-pin	1	8KV 004 258-031	1
	Cable junction box with 8 x 4 male spade connections (6.3 x 0.8 mm)	IP 52	140 x 90 x 58	8-pin	1	8KV 004 259-031	1
<b>ADR cable junction boxes</b>	ADR-suitable cable junction box with 6 x 8 and 8 x 4 male spade connections (6.3 x 0.8 mm) with 12 metric threads 1 x M25, 3 x M20 and 8 x M16	IP 69K	158 x 99 x 63		1	▶ 8KV 177 785-002	1
 	ADR-suitable cable junction box with 6 x 8 and 8 x 4 male spade connections (6.3 x 0.8 mm) with 4 metric threads 4 x M20	IP 69K	158 x 99 x 63		1	▶ 8KV 177 785-012	1

▶ New in the range



3.3.2 Cable connectors		Colour	Cross-section mm <sup>2</sup>	Contents in pcs.	Short reference	Part number	PU in pcs.
<b>Snap-lock connectors</b>    		■	0.3–0.75	25	I 52	8KV 715 923-003	25
		■	0.8–2.0	5	I 01	8KV 705 123-813	1
		■	0.8–2.0	25	I 50	8KV 705 123-002	25
		■	0.8–2.0	2,500		8KV 705 123-004	2500
		■	3.3–5.2	10	I 51	8KV 712 169-003	10
		■	0.5–1.0	50	I 61	8KV 744 858-003	50
		■	1.5–2.5	50	I 62	8KV 744 859-003	50
		■	4.0–6.0	25	I 63	8KV 744 860-003	25

	Description/ Colour	Dimensions	Male connector dimensions mm	Pins	Contents in pcs.	Short reference	Part number	PU in pcs.
	transparent		6.3 x 0.8		10	I 57	8KV 002 135-811	1
<b>Male spade jack connector</b>  	transparent		6.3 x 0.8	2-pin	25	A 84	8KW 044 035-003	25
	transparent		6.3 x 0.8	4-pin	10	I 56	8KV 003 124-811	1
	with male spade connection	147.8 x 28 x 7	6.3 x 0.8 mm <sup>2</sup>	12-pin	10		8KV 002 132-001	10
		142 x 42 x 7		12-pin	10		8KV 002 133-001	10
	with solid brass terminals							
	for cables up to 2.5 mm <sup>2</sup>			12-pin	4	I 05	8KV 002 137-801	1
				12-pin	10		8KV 002 137-001	10
	for cables up to 4 mm <sup>2</sup>			12-pin	10		8KV 002 139-001	10
	for cables up to 10 mm <sup>2</sup>			12-pin	10		8KV 002 140-001	10
	for cables up to 16 mm <sup>2</sup>			12-pin	10		8KV 002 141-001	10
	with 8 x 4 male spade connections (6.3 x 0.8 mm)	68 x 40 x 22	6.3 x 0.8		1		8KV 003 284-001	1



### 3. Cable connectors



#### 3.4 Plug-type connections

“SUPERSEAL” plug-type connections comply with the regulations of IEC 529 and DIN ISO 40050 IP 67 and

are thus waterproof. Applications: e. g. sensors, oil pressure parts, monitoring water temperature etc.

3.4.1 “SUPERSEAL” connectors	Description/Colour	Pins	Contents in pcs.	Short reference	Part number	PU in pcs.
 <p>“SUPERSEAL” connector sets, individual cable seals Ø 1.8–2.4 mm and Ø 2.6–3.3 mm, 1 each male connector housing, female connector housing</p>	2 male pin contacts each 1.0–1.5 mm <sup>2</sup> , female socket contacts 1.0–1.5 mm <sup>2</sup> , 2 individual cable seals each	1-pin	10	B 03	8KW 744 805-801	1
	3 male pin contacts each 1.0–1.5 mm <sup>2</sup> , female socket contacts 1.0–1.5 mm <sup>2</sup> , 4 individual cable seals each, 2 blind plugs	2-pin	18	B 04	8KW 744 806-801	1
	4 male pin contacts each 1.0–1.5 mm <sup>2</sup> , female socket contacts 1.0–1.5 mm <sup>2</sup> , 6 individual cable seals each, 4 blind plugs	3-pin	26	B 05	8KW 744 807-801	1
	5 male pin contacts each 1.0–1.5 mm <sup>2</sup> , female socket contacts 1.0–1.5 mm <sup>2</sup> , 8 individual cable seals each, 6 blind plugs	4-pin	34	B 06	8KW 744 808-801	1
	6 male pin contacts each 1.0–1.5 mm <sup>2</sup> , female socket contacts 1.0–1.5 mm <sup>2</sup> , 10 individual cable seals each, 8 blind plugs	5-pin	42	B 07	8KW 744 809-801	1
	7 male pin contacts each 1.0–1.5 mm <sup>2</sup> , female socket contacts 1.0–1.5 mm <sup>2</sup> , 12 individual cable seals each, 10 blind plugs	6-pin	50	B 08	8KW 744 810-801	1




	Description/Colour	Pins	Contents in pcs.	Short reference	Part number	PU in pcs.	
<b>“SUPERSEAL” connectors</b>  	Male pin housing	1-pin	10		8JA 746 183-012	10	
	Female socket housing	1-pin	10		8JA 746 184-012	10	
	Male pin housing	2-pin	10		8JA 746 183-022	10	
	Female socket housing	2-pin	10		8JA 746 184-022	10	
	Male pin housing	3-pin	10		8JA 746 183-032	10	
	Female socket housing	3-pin	10		8JA 746 184-032	10	
	Male pin housing	4-pin	10		8JA 746 183-042	10	
	Female socket housing	4-pin	10		8JA 746 184-042	10	
	Male pin housing	5-pin	10		8JA 746 183-052	10	
	Female socket housing	5-pin	10		8JA 746 184-052	10	
	Male pin housing	6-pin	10		8JA 746 183-062	10	
	Female pin housing	6-pin	10		8JA 746 184-062	10	
		Male pin contact	1.0–1.5 mm <sup>2</sup>	50	B 143	8KW 744 836-002	50
		Female socket contact	1.0–1.5 mm <sup>2</sup>	50	B 144	8KW 744 837-002	50
Strand insulation		Ø 1.8–2.4 mm	50	B 145	9GD 746 185-002	50	
		Ø 2.6–3.3 mm	50	B 146	9GD 746 186-002	50	
Blind plug			50	B 147	9GD 746 187-002	50	



### 3. Cable connectors


#### 3.4 Superseal connectors

	Cross-section mm <sup>2</sup>	Description	Short reference	Contents in pcs.	Part number	PU in pcs.
<b>“SUPERSEAL” connector range assortment</b>  		Case containing an assortment of various SUPERSEAL connectors, male/female contacts, individual cable seals and blind plugs  (quantity delivered as refill set differs from the quantity in the original set)			8JA 009 256-801	1

<b>Replacement parts for “SUPERSEAL” connector range</b>	1.8–2.4	Individual wire seal	B 145	100	9GD 746 185-002	50
		Blind plug	B 147	100	9GD 746 187-002	50
	1.0–1.5	Male pin contact	B 143	100	8KW 744 836-002	50
	1.0–1.5	Female socket contact	B 144	100	8KW 744 837-002	50
		Male pin housing, 1-pin		5	8JA 746 183-012	10
		Female socket housing, 1-pin		5	8JA 746 184-012	10
		Female socket housing, 2-pin		5	8JA 746 183-022	10
		Male pin housing, 2-pin		5	8JA 746 184-022	10
		Male pin housing, 3-pin		5	8JA 746 183-032	10
		Female socket housing, 3-pin		5	8JA 746 184-032	10
		Male pin housing, 4-pin		5	8JA 746 183-042	10
		Female socket housing, 4-pin		5	8JA 746 184-042	10
		Male pin housing, 5-pin		5	8JA 746 183-052	10
		Female socket housing, 5-pin		5	8JA 746 184-052	10
		Male pin housing, 6-pin		5	8JA 746 183-062	10
	Female socket housing, 6-pin		5	8JA 746 184-062	10	










Several cables are connected with the aid of the female and male connector housings and are suitable for non-insulated crimping connectors with catch and an insertion width of

6.3 mm. They have properties such as high mechanical reliability, good contact force and maximum operational safety.

3.4.2 Female and male connector housings		Description	Pin	Contents in pcs.	Part number	PU in pcs.
<b>Female connector housing for female spade connectors</b>  		1-female spade connector 6.3 mm	1-pin	10	8JD 008 151-001	10
		2-female spade connectors 6.3 mm	2-pin	10	8JD 008 151-011	10
		2-female spade connectors 6.3 mm	2-pin	10	8JD 008 151-021	10








	Description	Pins	Contents in pcs.	Part number	PU in pcs.
<b>Female connector housing for female spade connectors</b>	 3-female spade connectors 6.3 mm	3-pin	10	8JD 008 151-031	10
	 4-female spade connectors 6.3 mm	4-pin	10	8JD 008 151-041	10
	 6-female spade connectors 6.3 mm	6-pin	10	8JD 008 151-051	10
	 8-female spade connectors 6.3 mm	8-pin	10	8JD 008 151-061	10
<b>Male connector housing for male spade connectors</b>	 1-male spade connector, 6.3 mm	1-pin	10	8JD 008 152-001	10
	 2-male spade connectors 6.3 mm	2-pin	10	8JD 008 152-011	10
	 2-male spade connectors 6.3 mm	2-pin	10	8JD 008 152-021	10
	 3-male spade connectors 6.3 mm	3-pin	10	8JD 008 152-031	10
	 4-male spade connectors 6.3 mm	4-pin	10	8JD 008 152-041	10
	 6-male spade connectors 6.3 mm	6-pin	10	8JD 008 152-051	10
	 8-male spade connectors 6.3 mm	8-pin	10	8JD 008 152-061	10

**Special crimping tools** for crimping cable connectors and splice joints with insulation. Very high contact pressure despite low force required. This guarantees especially reliable crimping

and high electric values. Catch guarantees evenness of contact pressure.

<b>3.5 Crimping tools</b>	Description	Contents in pcs.	Part number	PU in pcs.
	Special crimping tool "Profi I model" for insulated crimping connectors, cable cross-section from 0.5–6.0 mm <sup>2</sup> (red, blue, yellow)	1	8PE 002 007-001	1
	Special crimping tool "Profi II model" for non-insulated crimping connectors, cable cross-section from 0.5–6.0 mm <sup>2</sup> . Not suitable for crimping splice joints with insulation.	1	8PE 002 007-011	1
	Special crimping tool "Expert" for insulated crimping connectors, cable cross-section from 0.5–6.0 mm <sup>2</sup> (red, blue, yellow)	1	8PE 002 006-001	1
	Suitable for bolt cutting with thread according to ISO of M2.6–M3.5 and for shortening and stripping cables from 0.75–6.0 mm <sup>2</sup>			

## 4. Insulation/Bundling

**Cable ties** allow the fast fixing and bundling of cables, harnesses and other construction elements.

### Advantages:

- Weatherproof and resistant to diluted organic acids, oils, petrol, saltwater, solvents and greases.
- For easy and quick work, the tips of the cable ties have been pulled up to show the direction of processing. This avoids having to pick up the cable tie more than once.

- Cable ties have very high tensile strength.
- Black cable ties are UV-resistant.




### Technical data:

- Material: Polyamide 6.6
- Temperature range: -40 °C to +85 °C
- Breaking strength according to DIN 53 453
- Flammability classification UL94 V2
- free of halogen and silicone


4.1 Cable ties	L x W mm	Colour	Capacity mm	Contents in pcs.	Short reference	Part number	PU in pcs.
	100 x 2.5	□	Ø 22	100	E 01	8HL 707 877-002	100
	100 x 2.5	■	Ø 22	100	E 02	8HL 717 962-001	100
	160 x 4.8	□	Ø 36	100	E 03	8HL 707 877-081	100
	160 x 4.8	■	Ø 36	100	E 04	8HL 717 962-161	100
	140 x 3.6	□	Ø 33	100	E 05	8HL 707 877-012	100
	140 x 3.6	■	Ø 33	100	E 06	8HL 717 962-011	100
	200 x 4.8	□	Ø 48	100	E 07	8HL 707 877-022	100
	200 x 4.8	■	Ø 48	100	E 08	8HL 717 962-021	100
	200 x 2.5	□	Ø 49	100	E 09	8HL 707 877-121	100
	200 x 2.5	■	Ø 49	100	E 10	8HL 717 962-131	100
	200 x 7.6	■	Ø 50	100	E 11	8HL 717 962-061	100
	200 x 3.6	□	Ø 55	100	E 12	8HL 707 877-091	100
	200 x 3.6	■	Ø 55	100	E 13	8HL 717 962-171	100
	292 x 7.6	■	Ø 77	100	E 14	8HL 717 962-111	100
	292 x 3.6	□	Ø 75	100	E 15	8HL 707 877-101	100
	292 x 3.6	■	Ø 75	100	E 16	8HL 717 962-141	100
	280 x 4.8	□	Ø 76	100	E 17	8HL 707 877-041	100
	280 x 4.8	■	Ø 76	100	E 18	8HL 717 962-031	100
	368 x 4.8	□	Ø 100	100	E 19	8HL 707 877-032	100
	368 x 4.8	■	Ø 100	100	E 20	8HL 717 962-041	100
	368 x 7.6	□	Ø 102	100	E 21	8HL 707 877-051	100
	368 x 7.6	■	Ø 102	100	E 22	8HL 717 962-051	100
	430 x 4.8	□	Ø 120	100	E 23	8HL 707 877-141	100
	430 x 4.8	■	Ø 120	100	E 24	8HL 717 962-181	100
	580 x 13.0	□	Ø 152	50	E 25	8HL 707 877-131	50
	612 x 9.0	■	Ø 194	50	E 26	8HL 717 962-121	50







	Description	Contents in pcs.	Short description	Part number	PU in pcs.
<b>Accessories</b>	Cable clip for cables up to Ø 7.1 mm, size 25.4 x 25.4 x 10.4 mm	100	E 27	8HL 717 964-001	100
					
	Natural colour adhesive pad for sticking harnesses to level, smooth, grease-free body parts and walls, additional attachment through M5 bolt is possible; for cable ties size 27.7 x 27.7 x 5.7 mm	100	E 29	8HL 707 879-012	100
	Expanding anchor (drill hole: Ø 6 mm) for plastic cable ties up to 4.8 mm in width	100	E 30	8HL 707 878-002	100

**Twist locks:** Probably the fastest way to bundle and fasten cables.

<b>4.2 Twist locks</b>	Bundle Ø	Contents in pcs.	Short reference	Part number	PU in pcs.
	10.2	100		▶ 8HL 177 884-002	100
	14.0	100		▶ 8HL 177 884-012	100
	19.0	100		▶ 8HL 177 884-022	100

▶ New in the range

**Chassis cable clips** for frame thickness 3–6 mm, length of clip leg: 21 mm.



<b>4.3 Cable clips</b>	Description	Contents in pcs.	Short reference	Part number	PU in pcs.
<b>Chassis cable clips</b>	Cable clip, 43 mm long	100		8HS 071 414-001	100
					
	Cable clip, 52.5 mm long	100		8HS 071 415-001	100

## 4. Insulation/Bundling

The **corrugated tubes** are used for bundling cables and protecting them from dynamic loads and other external influences. The slotted version makes it easier to thread the cable in, whereas the closed version provides better protection. The polyamide version also meets ADR requirements.


- Usage temperature:  $-40^{\circ}\text{C}$  to  $+140^{\circ}\text{C}$  (briefly  $+160^{\circ}\text{C}$ )
- hardly flammable
- halogen-free
- UV-resistant

### Technical data:

4.4 Corrugated tubes	Nominal width	Inner diameter	Outer diameter	Material	Contents in pcs.	Part number	PU in pcs.
<b>Corrugated tubes, slotted</b> 	7.5	6.7	10	PP	50	▶ 8JR 177 882-002	50
	10	9.9	13	PP	50	▶ 8JR 177 882-012	50
	13	12.7	15.8	PP	50	▶ 8JR 177 882-022	50
	17	16.6	21.2	PP	50	▶ 8JR 177 882-032	50
	22	21.3	25.4	PP	50	▶ 8JR 177 882-042	50
	26	25.8	31.2	PP	50	▶ 8JR 177 882-052	50
	37	36	42.4	PP	25	▶ 8JR 177 882-062	25
<b>Corrugated tubes, non-slit</b> 	7.5	6.7	10	PP	50	▶ 8JR 177 883-002	50
	10	9.9	13	PP	50	▶ 8JR 177 883-012	50
	13	12.7	15.8	PP	50	▶ 8JR 177 883-022	50
	17	16.6	21.2	PP	50	▶ 8JR 177 883-032	50
	22	21.3	25.4	PP	50	▶ 8JR 177 883-042	50
	26	25.8	31.2	PP	50	▶ 8JR 177 883-052	50
	37	36	42.4	PP	25	▶ 8JR 177 883-062	25
<b>Corrugated tubes non-slit, ADR-suitable</b>	7.5	6.7	10	PA	50	▶ 8JR 178 252-002	50
	10	9.9	13	PA	50	▶ 8JR 178 252-012	50
	13	12.7	15.8	PA	50	▶ 8JR 178 252-022	50
	17	16.6	21.2	PA	50	▶ 8JR 178 252-032	50
	22	21.3	25.4	PA	50	▶ 8JR 178 252-042	50
	37	36	42.4	PA	25	▶ 8JR 178 252-052	25






**Spiral strips** are used for the bundling of cables, wires or hoses. The advantage compared with corrugated tubes is the great

flexibility, since cables can be routed in or out of any place without any problems.

4.5 Spiral tape	Bundle range in mm	Inner diameter	Outer diameter	Helical width	Contents in pcs.	Part number	PU in pcs.
	10–50	4	5	7	10	▶ 8JR 178 587-002	10
	20–65	9	10.5	13.9	10	▶ 8JR 178 587-012	10
	25–100	15	17	18.2	10	▶ 8JR 178 587-022	10
	30–130	20	23	19.6	10	▶ 8JR 178 587-032	10




**Plastic insulating tapes**, soft-PVC, adhesive on one side.



4.6 Insulating tapes	Description/Material	Colour	Length	Width in mm	Thickness in mm	Temperature range °C	Contents in pcs.	Part number	PU in pcs.
	PVC, H 01	■	10000 mm	15	0.15	-10°C to +105°C	2	9MJ 707 869-852	1
	PVC, H 02	■	10000 mm	15	0.15		2	9MJ 707 874-821	1
	PVC	■	10000 mm	15	0.15	-10°C to +105°C	10	9MJ 707 869-013	10
	PVC	□	10000 mm	15	0.15		10	9MJ 707 870-013	10
	PVC	■	10000 mm	15	0.15		10	9MJ 707 871-013	10
	PVC	■	10000 mm	15	0.15		10	9MJ 707 873-013	10
	PVC	■	10000 mm	15	0.15		10	9MJ 707 874-013	10
PVC	■	10000 mm	15	0.15	10		9MJ 707 875-013	10	
PVC	■	4.5 m	15	0.15	-10°C to +105°C	10	9MJ 707 869-003	10	
	Self-sealing adhesive tape, tear strength: >20.0 N/cm; for repairing damaged cable sheathing, H 04	■	5 m	19		-40°C to +105°C	1	9MJ 735 430-001	1
	Fabric tape (Teflon tape)	□	12 m				10	9XX 734 570-001	10
	dirt-repellent, good media resistance Polyester fabric, H 05	■	25 m	19	0.17	-40°C up to +125°C	1	▶ 9MJ 176 267-001	1
	Flap/abrasion protection for taping harnesses Polyester fleece, H 06	■	25 m	19	0.3	-40°C up to +105°C	1	▶ 9MJ 176 269-001	1



#### 4. Insulation/Bundling

4.6 Insulating tapes	Description/Material	Colour	Length	Width in mm	Thickness in mm	Temperature range °C	Contents in pcs.	Part number	PU in pcs.
	especially suitable for repairs and insulation work in unfavourable weather conditions PVC, H 07	■	20 m	19	0.2	-20°C to +105°C	1	▶ 9MJ 176 270-001	1
	excellent media resistance, increases stability at high and low temperatures, suitable for working in the engine compartment PVC, H 08	■	33 m	19	0.15	-40°C to +125°C	1	▶ 9MJ 176 271-001	1

**Heat shrink hoses** for bundling and to protect hoses, self-extinguishing

4.7 Shrink hoses	Shrink rate	Colour	Length	Diameter in mm	Minimum shrinkage temperature	Temperature range °C	Contents in pcs.	Part number	PU in pcs.
<b>Heat shrink hoses off the roll</b>  	2 : 1	■	4.0 m	Ø 25.4	120°C	-55°C to +125°C	1	9MJ 007 825-071	1
		■	5.0 m	Ø 19.1			1	9MJ 007 825-041	1
		■	6.5 m	Ø 9.5			1	9MJ 007 825-021	1
		■	6.5 m	Ø 12.7			1	9MJ 007 825-051	1
		■	7.5 m	Ø 6.4			1	9MJ 007 825-031	1
		■	9.5 m	Ø 4.8			1	9MJ 007 825-001	1
		■	11.5 m	Ø 3.2			1	9MJ 007 825-011	1
		■	12.5 m	Ø 2.4			1	9MJ 007 825-061	1
<b>Heat shrink hose sections with inner adhesive</b>  	3 : 1	■	30 cm	Ø 3.0	135°C	-55°C to +85°C	20	9MJ 008 039-001	20
		■	30 cm	Ø 4.8			16	9MJ 008 039-011	16
		■	30 cm	Ø 6.0			13	9MJ 008 039-021	13
		■	30 cm	Ø 9.0			11	9MJ 008 039-031	11
		■	30 cm	Ø 12.0			9	9MJ 008 039-041	9
		■	30 cm	Ø 19.0			7	9MJ 008 039-051	7
		■	30 cm	Ø 24.0			5	9MJ 008 039-061	5



Colour	Ø	Length	Quantity in the assortment	Part number	PU in pcs.
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**Heat shrink hose assortment**



Case containing an assortment of different heat shrink hoses with a shrink rate of 2 : 1, usage temperature range of -55 to +125 °C, flame-retardant and self-extinguishing; UL224 shrinkage temperature min. 120 °C

▶ 9MJ 178 458-801	1
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20 each in red, yellow, blue	2.4	50	60	▶ 9MJ 178 458-002	1
30 each in black, transparent	2.4	50	60	▶ 9MJ 178 458-012	1
20 each in red, yellow, blue	3.2	50	60	▶ 9MJ 178 458-022	1
30 each in black, transparent	3.2	50	60	▶ 9MJ 178 458-032	1
20 each in red, yellow, blue	4.8	50	60	▶ 9MJ 178 458-042	1
30 each in black, transparent	4.8	50	60	▶ 9MJ 178 458-052	1
20 each in red, yellow, blue	6.4	50	60	▶ 9MJ 178 458-062	1
30 each in black, transparent	6.4	50	60	▶ 9MJ 178 458-072	1
4 each in red, yellow, blue, black, transparent	9.5	100	20	▶ 9MJ 178 458-082	1
4 each in red, yellow, blue, black, transparent	12.5	100	20	▶ 9MJ 178 458-092	1
10 each in black, transparent	19.1	100	20	▶ 9MJ 178 458-102	1
5 each in red, yellow, blue, black, transparent	9.5	200	25	▶ 9MJ 178 458-112	1
black	1 each in 5 x 19.1 and 25.4	200	10	▶ 9MJ 178 458-122	1

	Colour	Length	Diameter in mm	Temperature range °C	Contents in pcs.	Part number	PU in pcs.
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**Heat shrink hose sets**

Shrink rate 2 : 1





20 each in red, yellow, blue	50	2.4	-55 °C to +125 °C	60	▶ 9MJ 178 458-002	1
				60	▶ 9MJ 178 458-012	1
				60	▶ 9MJ 178 458-022	1
				60	▶ 9MJ 178 458-032	1
				60	▶ 9MJ 178 458-042	1
				60	▶ 9MJ 178 458-052	1
				60	▶ 9MJ 178 458-062	1
				60	▶ 9MJ 178 458-072	1
				20	▶ 9MJ 178 458-082	1
				20	▶ 9MJ 178 458-092	1
				20	▶ 9MJ 178 458-102	1
				25	▶ 9MJ 178 458-112	1
				10	▶ 9MJ 178 458-122	1

▶ New in the range



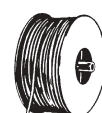
## 5. Cables

Single-wire **vehicle cables** for lighting, signal systems and electrical accessories. Cables from 4 mm<sup>2</sup> can also be used as charge or starter cables.

5.1 Single-wire, single-insulated PVC vehicle cables	Reference	Cable cross-section in mm <sup>2</sup>	Wire colour		Part number		Part number
				Metres per reel		Metres per coil	
FLY		0.75	■	100	8KL 054 001-002	50	8KL 712 929-001
FLY		0.75	□	100	8KL 054 002-002	50	8KL 712 930-001
FLY		0.75	■	100	8KL 054 003-002	50	8KL 712 931-001
FLY		0.75	■			50	8KL 712 929-011
FLY		0.75	■	100	8KL 054 004-002	50	8KL 712 932-001
FLY		0.75	■	100	8KL 054 005-002	50	8KL 712 933-001
FLY		0.75	■	100	8KL 054 006-002	50	8KL 712 934-001
FLY		0.75	■	100	8KL 054 007-002	50	8KL 712 935-001
FLY		1.0	■	100	8KL 054 008-002	50	8KL 712 936-001
FLY		1.0	□	100	8KL 054 009-002	50	8KL 712 937-001
FLY		1.0	■	100	8KL 054 010-002	50	8KL 712 938-001
FLY		1.0	■	100	8KL 054 011-002	50	8KL 712 939-001
FLY		1.0	■	100	8KL 054 012-002	50	8KL 712 940-001
FLY		1.0	■	100	8KL 054 013-002	50	8KL 712 941-001
FLY		1.0	■	100	8KL 054 014-002	50	8KL 712 942-001
FLY		1.5	■	100	8KL 712 943-002	50	8KL 712 943-001
FLY		1.5	□	100	8KL 712 944-002	50	8KL 712 944-001
FLY		1.5	■	100	8KL 712 945-002	50	8KL 712 945-001
FLY		1.5	■	100	8KL 712 946-002	50	8KL 712 946-001
FLY		1.5	■	100	8KL 712 947-002	50	8KL 712 947-001
FLY		1.5	■	100	8KL 712 948-002	50	8KL 712 948-001
FLY		1.5	■	100	8KL 712 949-002	50	8KL 712 949-001
FLY		1.5	■	100	8KL 712 950-002	50	8KL 712 950-001
FLY		1.5	■/■			50	8KL 717 460-001
FLY		1.5	■/■			50	8KL 717 461-001
FLY		1.5	■/□			50	8KL 717 462-001
FLY		1.5	■/■			50	8KL 717 463-001
FLY		1.5	■/■			50	8KL 717 464-001




	Reference	Cable cross-section in mm <sup>2</sup>	Wire colour	Metres per reel	Part number	Metres per coil	Part number
	FLY	2.5	■	50	8KL 712 952-002	50	8KL 712 952-001
	FLY	2.5	□	50	8KL 712 953-002	50	8KL 712 953-001
	FLY	2.5	■	50	8KL 712 954-002		
	FLY	2.5	■	50	8KL 712 955-002	50	8KL 712 955-001
	FLY	2.5	■	50	8KL 712 956-002		
	FLY	2.5	■	50	8KL 712 957-002	50	8KL 712 957-001
	FLY	2.5	■	50	8KL 712 958-002	50	8KL 712 958-001
	FLY	2.5	■	50	8KL 712 959-002	50	8KL 712 959-001
	FLY	4.0	■	25	8KL 712 960-002	50	8KL 712 960-001
	FLY	4.0	■	25	8KL 712 962-002	50	8KL 712 962-001
	FLY	6	■			50	8KL 712 964-001
	FLY	6	■			50	8KL 712 965-001
	FLY	6	■			50	8KL 712 966-001
	FLY	10	■			50	8KL 712 967-001
	FLY	10	■			50	8KL 712 968-001
	FLY	16	■			50	8KL 712 969-001
	FLY	25	■			50	8KL 712 970-001
	FLY	35	■			50	8KL 712 971-001
	FLY	50	■			50	8KL 712 972-001





5.2 Multi-wire PVC vehicle cables	Reference	Cable cross-section in mm <sup>2</sup>	Wire colour	Sheathing colour	Metres per reel	Part number	Metres per coil	Part number
	FLYY	1 x 1.5	■	■	■	50	8KL 712 975-002	50
FLYY	1 x 2.5	■	■	■			50	8KL 712 976-001
FLYY	2 x 0.75	2x ■	■	■	50	8KL 735 190-002	100	8KL 735 190-001
FLYY	2 x 0.75	■/■	■	■			200	8KL 712 986-001
FLYY	2 x 1.0	■/■	■	■			50	8KL 712 991-001
FLYY	2 x 1.5	2x ■	■	■	25	8KL 712 977-002	50	8KL 712 977-001
FLYY	2 x 1.5	■/■	■	■			50	8KL 712 992-001
FLYY	2 x 2.5	2x ■	■	■			50	8KL 712 978-001
FLYY	3 x 1.5	■/■/■	■	■			50	8KL 712 993-001



## 5. Cables

Reference	Cable cross-section in mm <sup>2</sup>	Wire colour	Sheathing colour		Metres per coil	Part number
FLYY	4 x 0.75	■/□/■/■	■		200	8KL 712 987-001
FLYY	4 x 0.75	■/□/■/■	■		200	8KL 712 988-001
FLYY	4 x 1.0	■/□/■/■	■		50	8KL 712 994-001
FLYY	4 x 1.5	■/□/■/■	■		50	8KL 712 995-001
FLYY	5 x 1.0	■/■/□/■/■	■		50	8KL 712 996-001
FLYY	5 x 1.5	■/■/□/■/■	■		50	8KL 715 434-001
FLYY	6 x 0.75	■/■/□/■/■/■	■		200	8KL 712 989-001
FLYY	7 x 0.75	■/■/■/□/■/■/■	■		200	8KL 712 990-001
FLYY	7 x 1.0	■/■/■/□/■/■/■	■		50	8KL 715 435-001
FLYY	7 x 1.5	■/■/■/□/■/■/■	■		50	8KL 712 997-001
FLYY	8 x 1.5	■/■/□/■/■/■/■/■	■		50	8KL 713 735-001
FLYY	9 x 1.5 + 4 x 2.5	7x ■/■/■/■/■/■/■/ 2x ■/■/■	■		25	8KL 719 852-001
FLYY	12 x 1.5 + 3 x 2.5	■/■/■/■/■/■/■/■/■/□-■/□-■/□-■/□-■	■		50	8KL 742 810-001

5.3 PVC flat cables	Reference	Cable cross-section in mm <sup>2</sup>	Wire colour	Sheathing colour		Metres per reel	Part number		Metres per coil	Part number
	<b>Flat cable for loudspeakers and music systems</b>	XYFAZ	2 x 0.5	■/■						100
	XYFAZ	2 x 0.75	■/■ - ■/■			100	8KL 712 980-002		50	8KL 712 980-001
	XYFAZ	2 x 0.75	■/■			100	8KL 712 980-022			
	XYFAZ	2 x 1.5	■/■ - ■						50	8KL 712 981-001
<b>Vehicle flat cable</b>	FLFYY	2 x 0.75	■/■	■					50	8KL 177 729-002
	FLFYY	2 x 1.5	■/■	■					50	8KL 177 729-012
	FLFYY	2 x 1.5	■/□	■					50	8KL 177 729-112
	FLFYY	2 x 1.5	■/□	■					50	8KL 177 729-212
	FLFYY	2 x 2.5	■/■	■					50	8KL 177 729-022






<b>5.4 Hose cables</b>						
Reference	Cable cross-section in mm <sup>2</sup>	Wire colour	Sheathing colour	Metres per coil	Part number	
<b>Rubber hose cable</b>	H05 RR-F	2 x 0.75	■/■	■	100	8KL 713 740-022
	H05 RR-F	2 x 1.0	■/■	■	50	8KL 713 740-012
	H05 RR-F	2 x 1.5	■/■	■	50	8KL 713 740-001
	A05 RR-F	3 x 0.75	■/■/■	■	50	8KL 713 737-001
	A05 RR-F	3 x 1.0	■/■/■	■	50	8KL 713 741-001
	A05 RR-F	3 x 1.5	■/■/■	■	50	8KL 713 742-001
	O5 RR-F	4 x 1.5	■/■/□/■/■	■	50	8KL 713 744-001
	O5 RR-F	5 x 1.5	■/■/□/■/■	■	50	8KL 715 436-001
	O5 RR-F	7 x 1.5	■/■/■/□/■/■/■	■	50	8KL 715 437-001
<b>PVC hose cable</b>	H05 WV-F	2 x 0.75	■/■	■	100	▶ 8KL 177 370-002
	H05 WV-F	2 x 1.0	■/■	■	100	▶ 8KL 177 370-012
	H05 WV-F	2 x 1.5	■/■	■	100	▶ 8KL 177 370-022
<b>5.5 ADR vehicle cables</b>						
Reference	Cable cross-section in mm <sup>2</sup>	Wire colour	Sheathing colour	Metres per coil	Part number	
<b>PVC vehicle cable, ADR-suitable</b>	FLRYY	2 x 1.0	■/□	■	100	▶ 8KL 178 452-002
	FLRYY	2 x 1.0	■/□	■	100	▶ 8KL 178 452-012
	FLRYY	5 x 1.0 + 1 x 2.5	■/■/■	■	50	▶ 8KL 178 453-002
	FLRYY	8x1.5 + 1x2.5	(1,0) ■-■/□/■-■/■/■/■/■/■/■/□ (2,5) □	■	50	▶ 8KL 178 454-002
	FLRYY	10x1.5 + 3x2.5	(1,5) ■/■/■/■/■/■/■/■/□/ ■/□-■/□-■/■-■/□/ (2,5) ■/■/■	■	25	▶ 8KL 178 456-002
	FLRYY	12x1.5 + 3x2.5	(1,5) ■/■/■/■/■/■/■/■/■/■/ ■/□-■/□-■/□-■/□-■/□- ■/(2,5) □/■/□-■	■	25	▶ 8KL 178 451-002
<b>5.6 Welding cables</b>						
Reference	Cable cross-section in mm <sup>2</sup>	Wire colour	Sheathing colour	Metres per coil	Part number	
<b>Special welding cables for the connection of automatic and manual welding tools</b>	H01N2-D	16.0	■	■	50	8KL 713 750-001
	H01N2-D	25.0	■	■	50	8KL 713 751-001
	H01N2-D	35.0	■	■	50	8KL 713 752-001
	H01N2-D	50.0	■	■	50	8KL 713 753-001
	H01N2-D	70.0	■	■	25	▶ 8KL 713 753-012
	H01N2-D	95.0	■	■	25	▶ 8KL 713 753-022




▶ New in the range

## 6. Other installation material

6.1 Battery terminals	Description	+/-	DIN	Contents in pcs.	Part number	PU in pcs.
	Form A, pole Ø 17.5 mm, for cables up to 70 mm <sup>2</sup>	+ left	as per DIN 72331	1	8KX 091 450-031	1
				25	8KX 091 450-032	25
	Form B, pole Ø 15.9 mm, for cables up to 70 mm <sup>2</sup>	- right	as per DIN 72331	1	8KX 043 021-031	1
				25	8KX 043 021-032	25
	Form C, pole Ø 17.5 mm, for cables up to 70 mm <sup>2</sup>	+ right	as per DIN 72331	1	8KX 091 451-031	1
				25	8KX 091 451-032	25
	Form D, pole Ø 15.9 mm, for cables up to 70 mm <sup>2</sup>	- left	as per DIN 72331	1	8KX 091 452-031	1
				25	8KX 091 452-032	25
	Form E for cables from 50–120 mm <sup>2</sup> with lighting cable connection, pole Ø 17.5 mm	+ left	as per DIN 72331	10	8KX 091 453-001	10
	Form E for cables from 50–120 mm <sup>2</sup> without lighting cable connection, pole Ø 17.5 mm	+ left	as per DIN 72331	10	8KX 707 911-001	10
	Form F for cables from 50–120 mm <sup>2</sup> without lighting cable connection, pole Ø 15.9 mm	- right	as per DIN 72331	10	8KX 707 911-011	10
	Form E for cables from 10–70 mm <sup>2</sup>					
	Pole Ø 17.5 mm	+ terminal		10	8KX 716 405-001	10
	Pole Ø 15.9 mm	- terminal		10	8KX 716 405-011	10
	for cables from 50–120 mm <sup>2</sup>					
	Pole Ø 17.5 mm with lighting cable connection	+ terminal		10	8KX 707 912-001	10
	Pole Ø 15.9 mm without lighting cable connection	- terminal		10	8KX 707 912-011	10
	for cables from 50–120 mm <sup>2</sup>					
	with screw M 12 x 1.5, pole Ø 17.5 mm	- terminal		10	8KX 707 913-011	10
	with screw M 10 x 1.5, pole Ø 15.9 mm	+ terminal		10	8KX 707 913-001	10






	Description	+/-	DIN	Contents in pcs.	Part number	PU in pcs.
	Ford battery clamp	+ terminal		10	8KX 742 695-032	10
		- terminal		10	8KX 742 695-022	10
	QuickLock battery pole clamp	- terminal		10	▶ 8KX 174 396-012	10
	Starter cable with battery clamp and ring tongue M8, cable cross-section: 25 mm <sup>2</sup> , 900 mm long, pole Ø 17.5 mm			5	8KX 707 919-021	5

6.2 Earthing straps		Description	Cable cross-section in mm <sup>2</sup>	Load capacity	Length in mm	Contents in pcs.	Part number	PU in pcs.	
<b>Engine earthing straps</b>  	made of highly flexible copper braiding, pole Ø 10.5 mm	1-layer	16	65 A	150	5	8KX 707 916-001	5	
			16	65 A	200	5	8KX 707 916-011	5	
			16	65 A	250	5	8KX 707 916-021	5	
				21	80 A	200	5	8KX 707 917-011	5
				21	80 A	250	5	8KX 707 917-021	5
				21	80 A	300	5	8KX 707 917-031	5
		2-layer	50		300	10	▶ 8KX 175 422-002	10	
<b>Suppressor earthing straps</b>  	made of highly flexible copper braiding, ends leaded, pole Ø 8.5 mm	10	48 A	180	5	8KX 707 918-001	5		
		10	48 A	210	5	8KX 707 918-011	5		
		10	48 A	280	5	8KX 707 918-021	5		
		10	48 A	400	5	8KX 707 918-031	5		
<b>Battery earthing straps</b>  	made of highly flexible copper braiding, with brass clip, pole Ø 15.9 mm,	1-layer	21	80 A	180	10	8KX 091 391-001	10	
			21	80 A	250	10	8KX 091 392-001	10	
			21	80 A	300	10	8KX 091 394-001	10	
			21	80 A	320	10	8KX 091 395-001	10	
			21	80 A	350	10	8KX 719 756-001	10	
			21	80 A	400	10	8KX 719 757-001	10	
		2-layer	50		500	5	▶ 8KX 175 421-002	5	

▶ New in the range







## 6. Other installation material

6.3 Hose/ pipe clamps	Description	Clamping range for Ø in mm	Strip width mm	Contents in pcs.	Part number	PU in pcs.
<b>Hose clamps</b>  	Hose clamps in dispenser. Strip and housing made of stainless steel, screw made of galvanised steel	8-16	9	50	8HK 710 701-111	50
		12-20	9	50	8HK 710 701-121	50
		16-25	9	50	8HK 710 701-131	50
		20-32	9	50	8HK 710 701-141	50
		25-40	9	25	8HK 710 701-151	25
		35-50	9	25	8HK 710 701-161	25
	Hose clamp for fuel lines. Strip and housing made of stainless steel, screw made of galvanised steel	7-11	5	100	8HK 713 394-001	100
	Hose clamp - strip and housing made of stainless steel, screw made of galvanised steel	8-16	9	100	8HK 713 820-001	100
		12-20	9	100	8HK 713 820-011	100
		16-25	9	100	8HK 713 820-021	100
		20-32	9	100	8HK 713 820-031	100
		25-40	9	100	8HK 713 820-041	100
		32-50	9	50	8HK 713 820-051	50
		40-60	9	50	8HK 713 820-061	50
		50-70	9	25	8HK 713 820-071	25
		60-80	9	25	8HK 713 820-081	25
		70-90	9	25	8HK 713 820-091	25
		80-100	9	25	8HK 713 820-101	25
	Hose clamp - all parts made completely of galvanised steel	8-12	9	100	8HK 748 452-002	100
		10-16	9	100	8HK 748 452-012	100
		12-22	9	100	8HK 748 452-022	100
		16-27	9	100	8HK 748 452-032	100
		20-32	9	100	8HK 748 452-042	100
		25-40	9	100	8HK 748 452-052	100
		35-50	9	50	8HK 748 452-062	50
		50-70	9	25	8HK 748 452-072	25
		60-80	9	25	8HK 748 452-082	25
		70-90	9	25	8HK 748 452-092	25
		80-100	9	25	8HK 748 452-102	25





	Description	Clamping range for Ø in mm	Strip width mm	Contents in pcs.	Part number	PU in pcs.
	Hose clamp - strip and housing made of stainless steel, screw made of galvanised steel	16-27	12	25	8HK 748 453-102	25
		20-32	12	25	8HK 748 453-112	25
		35-50	12	10	8HK 748 453-132	10
		40-60	12	10	8HK 748 453-142	10
		50-70	12	10	8HK 748 453-152	10
		60-80	12	10	8HK 748 453-162	10
		90-110	12	10	8HK 748 453-192	10
	Hose clamp - all parts made completely of galvanised steel	16-25	12	20	8HK 710 702-101	20
		20-32	12	20	8HK 710 702-111	20
		32-50	12	10	8HK 710 702-131	10
		40-60	12	10	8HK 710 702-141	10
		50-70	12	10	8HK 710 702-151	10
		60-80	12	10	8HK 710 702-161	10
		90-110	12	10	8HK 710 702-191	10

	Description	Inner dia-meter for Ø in mm	Strip width mm	Surface finish	Contents in pcs.	Part number	PU in pcs.
<b>Pipe clamps</b>  	Pipe clamp 12 W1	6	12	galvanised	100	▶ 8HS 749 192-002	100
		8	12	galvanised	100	▶ 8HS 749 192-012	100
		10	12	galvanised	100	▶ 8HS 749 192-022	100
		12	12	galvanised	100	▶ 8HS 749 192-032	100
		13	12	galvanised	100	▶ 8HS 749 192-042	100
		14	12	galvanised	100	▶ 8HS 749 192-052	100
		16	12	galvanised	100	▶ 8HS 749 192-062	100
		18	12	galvanised	100	▶ 8HS 749 192-072	100
		19	12	galvanised	100	▶ 8HS 749 192-082	100
	Pipe clamp 15 W1	6	15	galvanised	100	▶ 8HS 749 193-002	100
		8	15	galvanised	100	▶ 8HS 749 193-012	100
		10	15	galvanised	100	▶ 8HS 749 193-022	100
		12	15	galvanised	100	▶ 8HS 749 193-032	100
		15	15	galvanised	100	▶ 8HS 749 193-042	100
		18	15	galvanised	100	▶ 8HS 749 193-052	100
		20	15	galvanised	100	▶ 8HS 749 193-062	100
		23	15	galvanised	50	▶ 8HS 749 193-072	50
		25	15	galvanised	50	▶ 8HS 749 193-082	50
	Pipe clamp 20 W1	18	20	galvanised	50	▶ 8HS 749 194-002	50
		20	20	galvanised	25	▶ 8HS 749 194-012	25
		25	20	galvanised	25	▶ 8HS 749 194-022	25

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