

4. Cable connectors

4.1 Crimp connectors



Purpose:

Uninsulated crimp connectors are generally used in those areas of the vehicle that are not at risk from splashes of water and primarily serve as removable system elements for electrical and mechanical cable connections or branches. A number of different contact systems have become established over the years depending on the application and the age of the vehicle.

Advantages:

- OEM quality
- Wide assortment of products for numerous applications

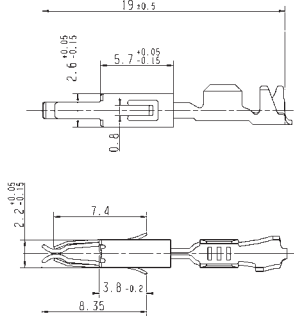
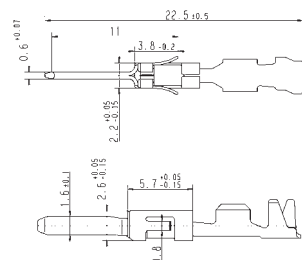
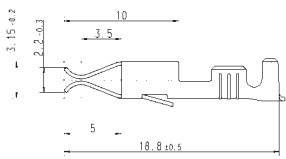
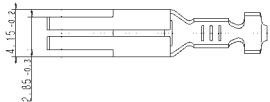
Materials and surface finishes

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

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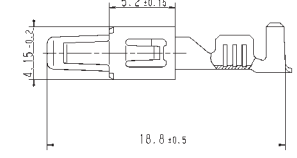
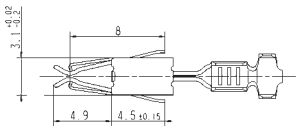
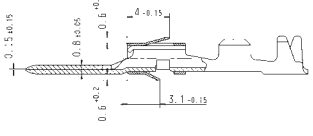
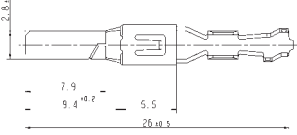
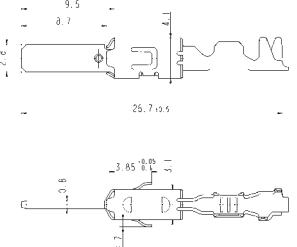
4.1 Crimp connectors

4.1.1 Uninsulated crimp connectors	Designation	Cross-section mm ²	Male connector dimensions mm	Material/surface finish	Short designation	Part number	PU in pcs.
Micro Timer II  	Flat receptacle	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
 	Blade terminal	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
 	Individual conductor seal	1.4–1.9		Silicone grey	B 201	9GD 863 952-012	50
	Blind plug			Silicone white	B 202	9GD 863 952-002	50
Junior Timer   	Flat receptacle with a 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

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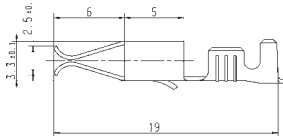
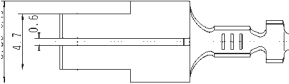
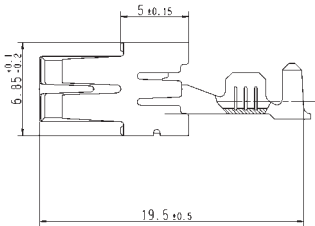
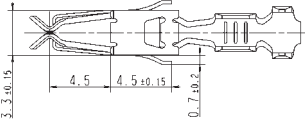
4.1 Crimp connectors

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4.1.1 Uninsulated crimp connectors	Designation	Cross-section mm ²	Male connector dimensions mm	Material/surface finish	Short designation	Part number	PU in pcs.
Junior Power Timer   	Flat receptacle	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 receptacle	1.0–2.5	2.8 x 0.8	CuSn/Sn	B 216	8KW 863 934-023	50
	Flat receptacle	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
	with symmetrical steel spring for strand insulation	0.5–1.0	2.8 x 0.8	CuSn/Sn	B 188	8KW 863 930-013	50

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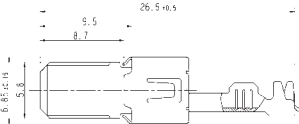
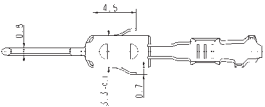
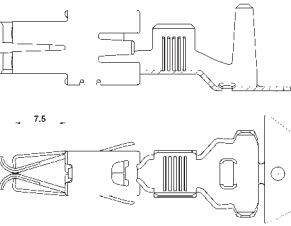
4.1 Crimp connectors

4.1.1 Uninsulated crimp connectors	Designation	Cross-section mm ²	Male connector dimensions mm	Material/surface finish	Short designation	Part number	PU in pcs.
	Individual wire 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
Standard Timer   	Flat receptacle 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
Standard Power Timer   	Flat receptacle	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

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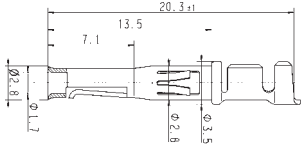
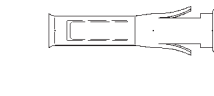
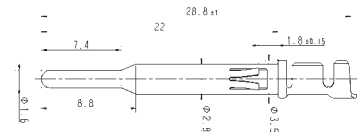
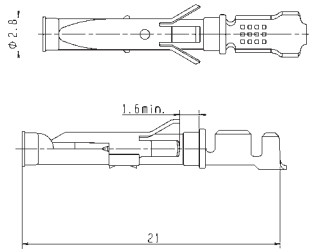
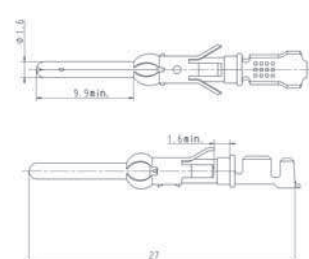
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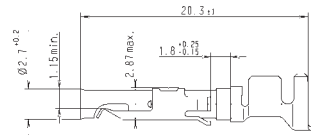
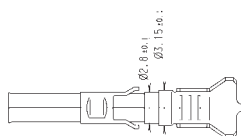
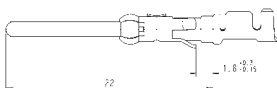
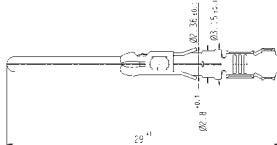
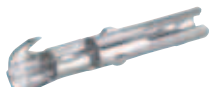
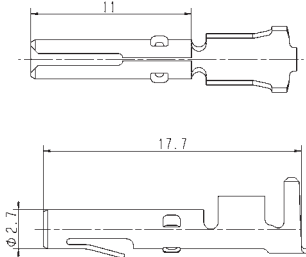
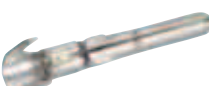
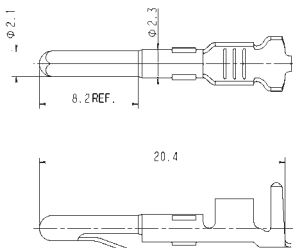
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4.1.1 Uninsulated crimp connectors	Designation	Cross-section mm ²	Male connector dimensions mm	Material/surface finish	Short designation	Part number	PU in pcs.
 	Male blade connector with symmetrical steel spring	0.5–1.0	5.8 x 0.8	CuFe/Sn	B 181	8KW 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
Maxi Power Timer  	Flat receptacle 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
Maxi Power Timer  	Individual wire 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

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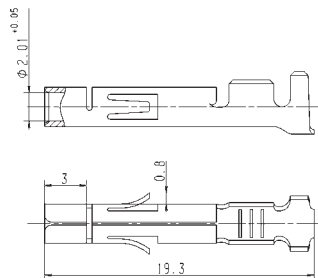
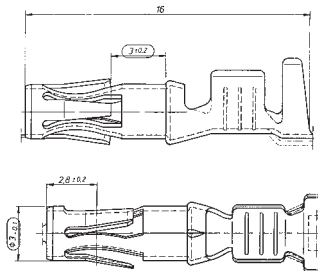
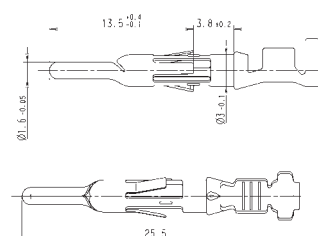
4.1 Crimp connectors

4.1.1 Uninsulated crimp connectors	Designation	Cross-section mm ²	Male connector dimensions mm	Material/surface finish	Short designation	Part number	PU in pcs.
Male connector-type connection CIC     	Female contact	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 contact	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
Male connector-type connection Type III for M series    	Female contact	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 contact	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

4.1.1 Uninsulated crimp connectors	Designation	Cross-section mm ²	Male connector dimensions mm	Material/surface finish	Short designation	Part number	PU in pcs.	
Male connector-type connection CI 2      	Female contact	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 contact	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	
	Plug-type connector Mate'n' Lock    	Female contact	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
	Male pin contact	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	

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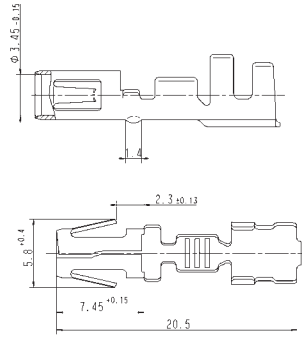
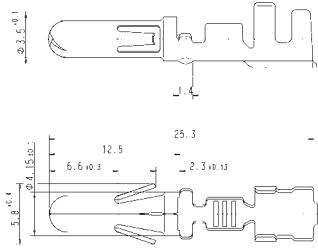
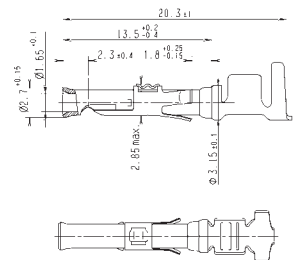
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4.1.1 Uninsulated crimp connectors	Designation	Cross-section mm ²	Male connector dimensions mm	Material/surface finish	Short designation	Part number	PU in pcs.
Plug-type connector Universal Mate'n'Lock  	Female contact	0.5–2.1	2.1	CuSn/Sn	B 169	8KW 863 923-003	50
		1.5–2.5	2.1	CuZn/Sn	B 170	8KW 863 923-013	50
	Male pin contact	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
Cable lug for CONI round male connector system  	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
Cable lug for CONI round male connector system  	Plugs	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

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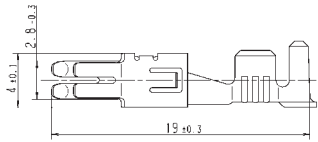
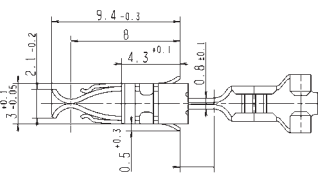
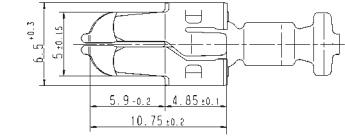
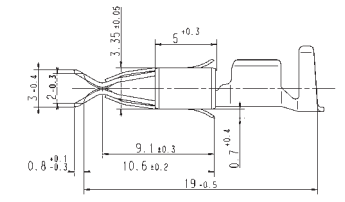
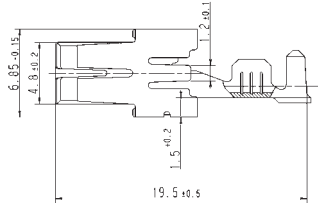
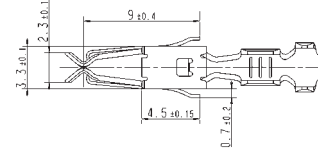
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4.1.1 Uninsulated crimp connectors	Designation	Cross-section mm ²	Male connector dimensions mm	Material/surface finish	Short designation	Part number	PU in pcs.
RAM round male connector system  	Sleeve	1.5–2.5	Ø 3.5	CuZn/frSn	B 72	8KW 054 948-003	50
		4.0–6.0	Ø 3.5	CuSn/frSn	B 215	8KW 054 948-013	50
	Plugs	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
 	Sleeve	1.5–2.5	Ø 1.6	CuSn/frSn	B 74	8KW 054 950-003	50
	Plugs	1.5–2.5	Ø 1.6	CuSn/frSn	B 75	8KW 054 949-003	50
 	Plugs	1.5–2.5	Ø 1.6	CuSn/frSn	B 75	8KW 054 949-003	50
		1.5–2.5	Ø 1.6	CuSn/frSn	B 75	8KW 054 949-003	50

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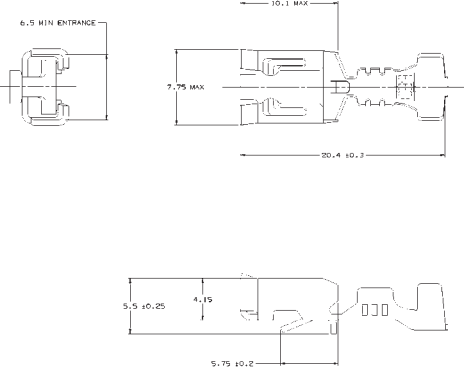
4.1 Crimp connectors

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MDK5 flat receptacle   	Sleeve	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
DFK 2 flat receptacle   	Sleeve	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
AFK 4.8 Flat receptacle (claw rotated through 90° to DFK)   	Sleeve	0.5–1.0	4.8 + 6.3 x 0.8	CuFe/frSn	B 217	8KW 172 971-002	50
		0.5 - 1.0	4.8 x 6.3 x 0.8	CuFe/frSn		8KW 172 971-003	1000

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4.1.1 Uninsulated crimp connectors	Designation	Cross-section mm ²	Male connector dimensions mm	Material/surface finish	Short designation	Part number	PU in pcs.
Metri Pack flat receptacle  	Sleeve	1.0 - 2.0	6.3 x 0.8	CuZn / Sn	B 241	8KW 863 904-003	50
		2.5 - 4.0	6.3 x 0.8	CuZn / Sn	B 242	8KW 863 904-013	50

4.1.1 Uninsulated crimp connectors	Cross-section mm ²	Eyelet hole Ø mm	Nominal size acc. to DIN	Contents in pcs.	Short designation	Part number	PU in pcs.
Solder-free conduit lugs DIN 46234 	>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
	>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

4. Cable connectors

4.1 Crimp connectors

4.1.1 Uninsulated crimp connectors	Cross-section mm ²	Male connector dimensions mm	Material/surface finish	Contents in pcs.	Short designation	Part number	PU in pcs.
Flat receptacle  	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

4.1.1 Uninsulated crimp connectors	Cross-section mm ²	Male connector dimensions mm	Material/surface finish	Short designation	Part number	PU in pcs.
Flat receptacle with locking tag   	0.5–1.0	2.8 x 0.8	CuSn/Sn	B 100	8KW 744 817-003	100
	0.5–1.0	4.8 x 0.8	CuZn/Sn	B 64	8KW 733 815-003	100
	0.5–1.0	6.3 x 0.8	CuZn/bk	B 103	8KW 744 819-003	100
	0.5–1.0	6.3 x 0.8	CuZn/Ag	B 243	8KW 744 882-003	100
	1.5–2.5	6.3 x 0.8	CuZn/Sn	B 54	8KW 701 235-033	100
	1.5–2.5	6.3 x 0.8	CuZn/Sn		8KW 701 235-034	1500
	1.5–2.5	6.3 x 0.8	CuZn/Ag	B 104	8KW 744 820-003	100
	Solder pin	6.3 x 0.8	CuSn/frSn		8KW 719 874-007	2500
Male blade connector 	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

Male blade connector with locking tag 	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

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4.1 Crimp connectors

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4.1.1 Uninsulated crimp connectors	Cross-section mm ²	Male connector dimensions mm	Material/ surface finish	Short designation	Part number	PU in pcs.
Piggy back spade connector 	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
Male connector distributor, double 		6.3 x 0.8	CuZn/bk	B 59	8KW 043 636-003	100
Male connector distributor, triple 		6.3 x 0.8	CuZn/Sn	B 60	8KW 700 144-003	50
Coupling 45° 		6.3 x 0.8 Ø 4.2	CuZn/Sn	B 213	8KW 044 285-023	100

4. Cable connectors

4.1 Crimp connectors

Assortment case	Designation	Part number Case	PU in pcs.
Contents of assortment case of uninsulated crimp connectors 	Assortment case comprising various uninsulated connectors (quantity delivered as refill set deviates from the quantity in the original set, not all items can be refilled)	8KW 009 255-801	1

Contents of assortment case: uninsulated crimp connectors	Designation	Cross-section mm ²	Male connector dimensions mm	Quantity in the assortment	refill	Short description	Part number	PU in pcs.
	Flat receptacle with locking tag	0.5–1.0	2.8 x 0.8	50	Spare parts	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
	Flat receptacle with locking tag	1.5–2.5	6.3 x 0.8	50		B 54	8KW 701 235-033	100
	Flat receptacle with locking tag, claw crosswise		6.3 x 0.8	20		B 105	8KW 744 821-003	100
	Male blade connector with locking tag	0.5–1.0	2.8 x 0.8	50		B 90	8KW 744 834-003	100
			6.3 x 0.8	50		B 88	8KW 744 832-003	100
	Male blade connector with locking tag	1.5–2.5	6.3 x 0.8	50		B 57	8KW 048 056-033	100
	Flat receptacle	0.5–1.0	4.8 x 0.8	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
	Flat receptacle claw crosswise	0.5–1.5	6.3 x 0.8	20		B 93	8KW 744 827-003	100
	Flat receptacle	1.5–2.5	6.3 x 0.8	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
	Male spade connector	1.5–2.5	6.3 x 0.8	50		B 86	8KW 744 823-003	100
	Male connector distributor, double		6.3 x 0.8	20		B 59	8KW 043 636-003	100
	Male connector distributor, triple		6.3 x 0.8	20		B 60	8KW 700 144-003	50
	Piggy back spade connector	1.5–2.5	6.3 x 0.8	20		B 82	8KW 744 885-003	100
	Male spade connector, 45°		6.3 x 0.8	20				
	Male blade connector, Ø 5.3 mm			20				
	Coupling			20				

4. Cable connectors

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4.1.2 Insulated crimp connectors with shrink-on insulation



Purpose:

insulated Duraseal crimp connectors have an adhesive-coated shrinkable nylon cap that can be used to create a waterproof join between the cable and the contact. You do this by heating the nylon cap to around 135°C using a hot air gun (or other heat source). At this temperature the material of the cap firmly grasps the cable. You can then dispense with other forms of insulation (such as heat-shrinkable tubing or insulating tape).

Code colour red = crimp connectors for cable cross-sections 0.5–1.0 mm²
code colour blue = crimp connectors for cable cross-sections 1.5–2.5 mm²
code colour yellow = crimp connectors for cable cross-sections 4.0–6.0 mm²

Advantages:

- Cable connection and sealed insulation in one integrated product
- Wide-ranging assortment including all the usual contact variants

4.1.2 Insulated crimp connectors with shrink insulation (Duraseal)	Colour	Cross-section mm ²	Insertion width mm/eyelet	Insulating material	Short designation	Part number	PU in pcs.
Flat receptacle fully insulated 	■	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
Blade terminal 	■	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
Ring connector   	■	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
	■	4.0–6.0	10.5 (M10)	Nylon	A 155	8KW 744 755-003	25
Fork connector 	■	1.5–2.5	4.3 (M4)	Nylon	A 157	8KW 744 757-003	25
	■	1.5–2.5	5.3 (M5)	Nylon	A 158	8KW 744 758-003	25

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4.1 Crimp connectors

4.1.2 Insulated crimp connectors with shrink insulation (Duraseal)	Colour	Cross-section mm ²	Male connector dimensions mm	Insulating material	Short designation	Part number	PU in pcs.
Male bullet connector 		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
Female bullet connectors fully insulated 		0.5–1.0	Ø 4.0	Nylon	A 167	8KW 744 767-003	25
		1.5–2.5	Ø 5.0	Nylon	A 168	8KW 744 768-003	25
Insulating splice 		0.5–1.0		Nylon	A 113	8KW 732 579-003	25
		1.5–2.5		Nylon	A 114	8KW 732 580-003	25
		4.0–6.0		Nylon	A 115	8KW 732 581-003	25

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4.1 Crimp connectors

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Assortment case	Designation	Part number Case	PU in pcs.
Contents of assortment case assortment of Duraseal crimp connectors 	Case containing an assortment of Duraseal crimp connectors (quantity contained in refill set differs from the quantity in the original set)	8KW 009 253-801	1

Contents of assortment case assortment of Duraseal crimp connectors	Designation	Cross- section mm ²	Insertion width mm/eyelet	Short designation	Quantity in the assortment
Insulating splice		0.5–1.0		A 113	15
		1.5–2.5		A 114	15
		4.0–6.0		A 115	15
Flat receptacle		0.5–1.0	6.3 x 0.8	A 100	15
		1.5–2.5	6.3 x 0.8	A 101	15
Blade terminal		0.5–1.0	6.3 x 0.8	A 102	15
		1.5–2.5	6.3 x 0.8	A 103	15
Female bullet connector		1.5–2.5	Ø 5.0	A 168	15
Male bullet connector		1.5–2.5	Ø 5.0	A 166	15
Ring connector		1.5–2.5	M5	A 107	15
		1.5–2.5	M6	A 109	15
		1.5–2.5	M8	A 111	15
		4.0–6.0	M5	A 108	15
		4.0–6.0	M6	A 110	15
Fork connector		1.5–2.5	M4	A 157	15
		1.5–2.5	M5	A 158	15

refill	Short description	Part number	PU in pcs.
Spare parts	A 113	8KW 732 579-003	25
	A 114	8KW 732 580-003	25
	A 115	8KW 732 581-003	25
	A 100	8KW 732 566-003	25
	A 101	8KW 732 567-003	25
	A 102	8KW 732 568-003	25
	A 103	8KW 732 569-003	25
	A 168	8KW 744 768-003	25
	A 166	8KW 744 766-003	25
	A 107	8KW 732 573-003	25
	A 109	8KW 732 575-003	25
	A 111	8KW 732 577-003	25
	A 108	8KW 732 574-003	25
	A 110	8KW 732 576-003	25
	A 157	8KW 744 757-003	25
	A 158	8KW 744 758-003	25



Purpose:

Insulated crimp connectors are crimped using a tool and the appropriately coloured end in order to get a secure, permanent contact to the cable. The insulating material is made of either PVC (max. tolerable temperature 80°C) or nylon (max. 105°C).

The insulating sleeve is funnel-shaped to make it easier to insert the cable.

Code colour red = Crimping connector for cable cross-sections 0.5–1.0 mm²

Code colour blue = Crimping connector for cable cross-sections 1.5–2.5 mm²

Code colour yellow = Crimping connector for cable cross-sections 4.0–6.0 mm²

Advantages:

- Cable connection and insulation in one integrated product
- Wide-ranging assortment including all the usual contact variants

4.1.3 Insulated crimp connectors	Colour	Cross-section mm ²	Male connector dimensions mm	Insulating material	Contents (pcs)	Short designation	Part number	PU in pcs.
Flat receptacles   	■	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
Flat receptacles, fully insulated 	■	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
	■	4.0–6.0	6.3 x 0.8	PVC	50	A 173	8KW 744 799-003	50

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4.1 Crimp connectors

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4.1.3 Insulated crimp connectors	Colour	Cross-section mm ²	Male connector dimensions mm	Insulating material	Contents (pcs)	Short designation	Part number	PU in pcs.
Blade terminal 		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
Male blade connectors fully insulated 		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 (page 125)							
Piggy back spade connector 		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
		1.5–2.5	6.3 x 0.8	PVC	1000		8KW 044 032-004	1000
Male bullet connector 		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
Female bullet connectors 		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

4.1.3 Insulated crimp connectors	Colour	Cross-section mm ²	Eyelet hole mm	Insulating material	Contents (pcs)	Short designation	Part number	PU in pcs.
Ring connector 	■	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

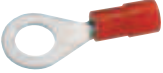
4.1.3 Insulated crimp connectors	Colour	Cross-section in mm ²	Eyelet hole mm	Insulating material	Contents (pcs)	Short designation	Part number	PU in pcs.
Open connector 	■	0.5 - 1.0	3.2 (M3)	PVC	100	A 121	8KW 744 777-003	100
	■	0.5 - 1.0	4.3 (M4)	PVC	100	A 122	8KW 744 778-003	100
	■	0.5 - 1.0	5.3 (M5)	PVC	100	A 123	8KW 744 779-003	100
	■	0.5 - 1.0	6.5 (M6)	PVC	100	A 124	8KW 744 780-003	100
	■	1.2 - 2.5	4.3 (M4)	PVC	100	A 125	8KW 744 782-003	100
	■	1.5 - 2.5	5.3 (M5)	PVC	50	A 77	8KW 044 282-003	50
	■	1.5 - 2.5	6.5 (M6)	PVC	100	A 126	8KW 744 783-003	100
	■	4.0 - 6.0	5.3 (M5)	PVC	50	A 127	8KW 744 784-003	50
	■	4.0 - 6.0	6.5 (M6)	PVC	50	A 128	8KW 744 785-003	50
	■	4.0 - 6.0	8.4 (M8)	PVC	50	A 129	8KW 744 786-003	50
	■	1.5 - 2.5	5.3 (M5)	PVC	100	A 78	8KW 044 037-003	100

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4.1.3 Insulated crimp connectors	Colour	Cross-section mm ²	Male connector dimensions mm	Insulating material	Contents (pcs)	Short designation	Part number	PU in pcs.
Insulating splice 		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
Assorted cable connectors comprising: 5 x branch insulating screw connectors 8KV 744 859-003 (page 125) and blade terminals, fully insulated 8KW 744 704-003 (page 114) 		1.0–2.5	6.3 x 0.8	PVC	10	I 11	8KV 713 222-812	1

4.1.3 Insulated crimp connectors	Colour	Cross-section mm ²	Eyelet hole mm	Insulating material	Contents (pcs)	Short designation	Part number	PU in pcs.
 		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

4. Cable connectors

4.1 Crimp connectors

4.1.3 Insulated crimp connectors	Colour	Cross-section mm ²	Eyelet hole mm	Insulating material	Contents (pcs)	Short designation	Part number	PU in pcs.
	■	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
Open connector 	■	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

4.1.3 Insulated crimp connectors	Colour	Cross-section mm ²	Male connector dimensions mm	Insulating material	Contents (pcs)	Short designation	Part number	PU in pcs.
Pin connector 	■	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
Insulating splice 	■	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

4. Cable connectors

4.1 Crimp connectors

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Assortment case of insulated crimp connectors	Designation	Part number Case	PU in pcs.
Contents of assortment case of insulated crimp connectors 	Assortment case comprising: various crimping connectors, a branch connector, a coupling and a crimping pliers (quantity delivered as refill set deviates from the quantity in the original set)	8KW 009 254-801	1

Contents of assortment case of insulated crimp connectors	Designation	Cross-section mm ²	Insertion width mm/eyelet	Quantity in the assortment	Refill	Short designation	Part number	PU in pcs.
	Female bullet connector	0.5–1.0	Ø 4.0	20	Spare parts	A 63	8KW 045 145-003	50
	Male bullet connector	0.5–1.0	Ø 4.0	20		A 61	8KW 044 040-003	100
	Flat receptacle	0.5–1.0	2.8 x 0.5	20		A 50	8KW 705 393-003	100
		0.5–1.0	6.3 x 0.8	20		A 52	8KW 044 036-003	100
	Flat receptacle fully insulated	0.5–1.0	6.3 x 0.8	20		A 82	8KW 708 373-003	50
	Flat receptacle	1.5–2.5	6.3 x 0.8	20		A 53	8KW 044 022-003	100
	Blade terminal	0.5–1.0	6.3 x 0.8	20		A 59	8KW 702 796-003	100
		1.5–2.5	6.3 x 0.8	20		A 60	8KW 044 288-003	100
	Ring connector	0.5–1.0	M4	20		A 67	8KW 044 276-003	100
		0.5–1.0	M5	20		A 69	8KW 044 291-003	100
		1.5–2.5	M4	20		A 68	8KW 044 028-003	100
		1.5–2.5	M5	20		A 70	8KW 044 027-003	100
		1.5–2.5	M6	20		A 72	8KW 044 039-003	100
		4.0–6.0	M5	20		A 71	8KW 044 029-003	50
		4.0–6.0	M6	20		A 73	8KW 044 030-003	50
	Insulating splice	1.5–2.5		20		A 80	8KW 044 033-002	100
	Open connector	1.5–2.5	M5	20		A 78	8KW 044 037-003	100
	Piggy back spade connector	1.5–2.5	2.8 x 0.5	20		A 58	8KW 044 032-003	50
	Branch cable connectors			20		I 50	8KW 705 123-002	25
	Coupling		6.3 x 0.8	20		A 84	8KW 044 035-003	25
	Crimping pliers			1			8PE 002 006-001	1



Purpose:

Cable end ferrules prevent the individual wires of multi-wire copper cables from splaying-out, so making it easier to insert them into terminals. The ferrule is compressed onto the stripped end of the connector. The shape of the resulting ferrule may differ depending on the compression tool that was used. The design and dimensions of range complies with DIN 46 228-4. The material is made of copper with nickel-coated surface and a plastic sleeve made of PVC.

Advantages:

- Precise and well-fitting bundling of wire ends
- With insulating insertion guide
- Covers all standard cross-sections

4.1.4 Cable end ferrules	Colour	Cross- section mm ²	overall length/ length of metal sleeve	Contents in pcs	Short designation	Part number	PU in pcs.
Cable end ferrules 	■	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



Purpose:

Alongside the various types of crimp connectors, solder connectors are another way of joining cables. This is done by inserting the stripped ends of the conductor into the connector and then treating it with pre-heated fluid solder. When the solder has cooled down you have a secure bonded connection.

For temperature-sensitive applications for which conventional soldering is not an alternative you can use a shrink solder connector. This is heated using a hot air gun, which causes the integrated solder ring to melt and the two lateral adhesive-coated ring seals to shrink.

After heating, the connection is soldered, fully insulated and subject to no mechanical strain.

This is suitable as a high-quality connection for individual conductors or for earthing coaxial cable shields.

Advantages:

- Wide range of products for all common cable cross-sections
- Reliable connection solution even for temperature-sensitive applications

4.2.1 CWT solder connectors	Colour	Cross-section mm ²	Ø max. insulation mm	Contents in pcs.	Short designation	Part number	PU in pcs.
CWT solder connectors 	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
4.2.2 Solder connectors compliant with DIN 46211	Cross-section mm ²	Eyelet hole Ø mm	Nominal size acc. to DIN	Contents in pcs.	Short designation	Part number	PU in pcs.
Solder connectors compliant with DIN 46211 	>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
	>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

4. Cable connectors

4.2 Solder connectors

4.2.2 Solder connectors compliant with DIN 46211	Cross- section mm ²	Eyelet hole Ø mm	Nominal size acc. to DIN	Contents in pcs.	Short designation	Part number	PU in pcs.
Solder connectors compliant with DIN 46211 	>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



Purpose:

When you have to join up a number of different multi-wire cables it is all too easy to lose track of them. In situations like this, HELLA's **cable junction boxes** offer a secure and easy bundling solution to keep them tidy. Its lockable fireproof design gives the individual wires the necessary protection.

Advantages:

- Compact design
- Easy and reliable to use
- Various sizes and contact solutions

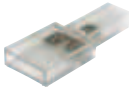
4.3 Cable junction boxes	Description	Protective class	Di mensions	Pin	Contents in pcs.	Part number	PU in pcs.
	Cable junction box, with threaded terminal end for cables up to 6 mm² = Ø 4.3 mm	IP 52	125 x 73 x 43	6-pole	1	8KV 002 142-031	1
	Cable junction box, with threaded terminal end for cables up to 6 mm² = Ø 3.5 mm	IP 52	125 x 73 x 43	8-pole	1	8KV 002 143-031	1

4.3 Cable junction boxes	Description	Protective class	Di mensions	Pin	Contents in pcs.	Part number	PU in pcs.
Cable junction boxes   	Cable junction box with 8 x 2 blade terminal connections (6.3 x 0.8 mm)	IP 52	125 x 73 x 43	8-pole	1	8KV 002 144-031	1
	  	Cable junction box with 8 x 4 blade terminal connections (6.3 x 0.8 mm)	IP 52	125 x 73 x 43	8-pole	1	8KV 002 145-031
Cable junction boxes  	Cable junction box, with threaded terminal end for cables up to 6 mm² = Ø 3.5 mm	IP 52	140 x 90 x 58	16-pole	1	8KV 004 258-031	1
	 	Cable junction box with 8 x 4 blade terminal connections (6.3 x 0.8 mm)	IP 52	140 x 90 x 58	8-pole	1	8KV 004 259-031

4. Cable connectors

4.4 Other cable connectors

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4.4 Cable connectors		Colour	Cross-section mm ²	Contents in pcs.	Short designation	Part number	PU in pcs.	
Branch cable connectors 		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	1000		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	Pin	Contents in pcs.	Short designation	Part number	PU in pcs.
PVC male spade branch connector 	transparent	54 x 21 x 7	6.3 x 0.8		10	I 57	8KV 002 135-821	1
Cable connectors    	transparent	28 x 11.5 x 7.3	6.3 x 0.8	1-pole	25	A 84	8KW 044 035-003	25
	transparent	50 x 20 x 6.4	6.3 x 0.8	2-pole	10	56	8KW 003 124-811	1
	transparent	147.8 x 28 x 7	6.3 x 0.8	12-pole	10		8KV 002 132-001	10
		142 x 42 x 7	6.3 x 0.8	12-pole	10		8KV 002 133-001	10
	8 x 4 blade terminal connections (6.3 x 0.8 mm)	68 x 40 x 22	6.3 x 0.8		1		8KV 003 284-001	1
Lustre terminals 	with solid brass terminals							
	for cables up to 2.5 mm ²			12-pole	10		8KV 002 137-001	10
	for cables up to 4 mm ²			12-pole	10		8KV 002 139-001	10
	for cables up to 10 mm ²			12-pole	10		8KV 002 140-001	10
	for cables up to 16 mm ²			12-pole	10		8KV 002 141-001	10

**Purpose:**

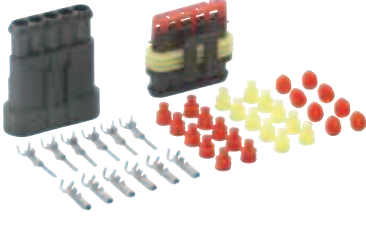
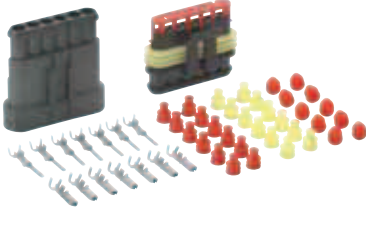
SUPERSEAL plug-type connectors comply with IEC 529 regulations and with DIN ISO 40050 and come with protection class IP 67, which offers the maximum level of water and dust proofing. These qualities mean that SUPERSEAL connectors will be suitable wherever adverse pressure or moisture conditions take other connector systems beyond the limits of their usefulness.

Advantages:

- OEM quality
- Reliable electrical connection
- Maximum protection against outside influences

4.5.1 SUPERSEAL connectors	Description/Colour	Pin	Contents in pcs.	Short designation	Part number	PU in pcs.
SUPERSEAL connector sets 	2 each of male pin contacts 1.0–1.5 mm ² , female socket contacts 1.0–1.5 mm ² , plus 2 individual cable seals each	1-pole	10	B 03	8KW 744 805-801	1
		2-pole	18	B 04	8KW 744 806-801	1

4.5 Female and male connector housings

4.5.1 SUPERSEAL connectors	Description/Colour	Pin	Contents in pcs.	Short designation	Part number	PU in pcs.
	4 each of male pin contacts 1.0–1.5 mm ² and female socket contacts 1.0–1.5 mm ² , plus 6 individual cable seals each and 4 blind plugs	3-pole	26	B 05	8KW 744 807-801	1
	5 each of male pin contacts 1.0–1.5 mm ² and female socket contacts 1.0–1.5 mm ² , plus 8 individual cable seals each and 6 blind plugs	4-pole	34	B 06	8KW 744 808-801	1
	6 each of male pin contacts 1.0–1.5 mm ² and female socket contacts 1.0–1.5 mm ² , plus 10 individual cable seals each and 8 blind plugs	5-pole	42	B 07	8KW 744 809-801	1
	7 each of male pin contacts 1.0–1.5 mm ² and female socket contacts 1.0–1.5 mm ² , plus 12 individual cable seals each and 10 blind plugs	6-pole	50	B 08	8KW 744 810-801	1

4.5.1 SUPERSEAL connectors	Description/Colour	Pin	Contents in pcs.	Short designation	Part number	PU in pcs.
SUPERSEAL connector        	Male pin housing	1-pole	10		8JA 746 183-012	10
	Female connector housing	1-pole	10		8JA 746 184-012	10
	Male pin housing	2-pole	10		8JA 746 183-022	10
	Female connector housing	2-pole	10		8JA 746 184-022	10
	Male pin housing	3-pole	10		8JA 746 183-032	10
	Female connector housing	3-pole	10		8JA 746 184-032	10
	Male pin housing	4-pole	10		8JA 746 183-042	10
	Female connector housing	4-pole	10		8JA 746 184-042	10

4. Cable connectors

4.5 Female and male connector housings

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4.5.1 SUPERSEAL connectors	Description/Colour	Pin	Contents in pcs.	Short designation	Part number	PU in pcs.
SUPERSEAL connector    	Male pin housing	5-pole	10		8JA 746 183-052	10
	Female connector housing	5-pole	10		8JA 746 184-052	10
	Male pin housing	6-pole	10		8JA 746 183-062	10
	Female connector housing	6-pole	10		8JA 746 184-062	10
    	Male pin contact	1.0–1.5 mm ²	50	B 143	8KW 744 836-002	50
	Female contact	1.0–1.5 mm ²	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

4. Cable connectors

4.5 Female and male connector housings

SUPERSEAL connectors	Designation	Part number Case	PU in pcs.
Contents of assortment case SUPERSEAL plug housing assortment 	Assortment case comprising various SUPERSEAL connectors, male/female contacts, individual cable seals and blind plugs (quantity delivered as refill set deviates from the quantity in the original set)	8JA 009 256-801	1

Contents of assortment case SUPERSEAL plug housing assortment	Designation	Cross-section mm ²	Quantity in the assortment	Refill	Short designation	Part number	PU in pcs.
	Individual wire seal	1.8–2.4	100	Spare parts	B 145	9GD 746 185-002	50
	Blind plug		100		B 147	9GD 746 187-002	50
	Male pin contact	1.0–1.5	100		B 143	8KW 744 836-002	50
	Female contact	1.0–1.5	100		B 144	8KW 744 837-002	50
	Male connector housing, 1-pole		5			8JA 746 183-012	10
	Female socket housing, 1-pole		5			8JA 746 184-012	10
	Male connector housing, 2-pole		5			8JA 746 183-022	10
	Female socket housing, 2-pole		5			8JA 746 184-022	10
	Male connector housing, 3-pole		5			8JA 746 183-032	10
	Female socket housing, 3-pole		5			8JA 746 184-032	10
	Male connector housing, 4-pole		5			8JA 746 183-042	10
	Female socket housing, 4-pole		5			8JA 746 184-042	10
	Male connector housing, 5-pole		5			8JA 746 183-052	10
	Female socket housing, 5-pole		5			8JA 746 184-052	10
	Male connector housing, 6-pole		5			8JA 746 183-062	10
	Female socket housing, 6-pole		5			8JA 746 184-062	10



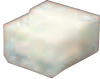
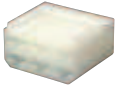
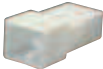
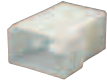
Purpose:

Female and male connector housings offer an easy way of protecting uninsulated cable connections from external influences. This assortment includes housings for standardised uninsulated crimp connectors with locking tag and for the round plug systems CONI and Mate'n'Lock.

Advantages:

- Simple protection solution for contact systems
- Easy and reliable to use

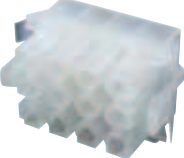
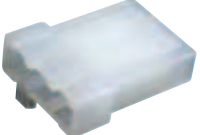
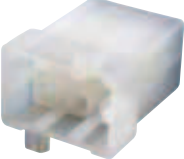
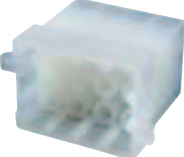
4.5.2 Female and male connector housings	Contacts	Pin	Contents (pcs)	Part number	PU in pcs.
Flat receptacle for female blade connectors 	1 Flat receptacle 6.3 mm	1-pole	10	8JD 008 151-001	10
	2 female spade connectors 6.3 mm	2-pole	10	8JD 008 151-011	10
	2 female spade connectors 6.3 mm	2-pole	10	8JD 008 151-021	10

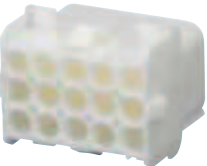
4.5.2 Female and male connector housings	Contacts	Pin	Contents (pcs)	Part number	PU in pcs.
Receptacle housing for flat receptacles    	3 flat receptacles 6.3 mm	3-pole	10	8JD 008 151-031	10
	4 flat receptacles 6.3 mm	4-pole	10	8JD 008 151-041	10
	6 flat receptacles 6.3 mm	6-pole	10	8JD 008 151-051	10
	8 flat receptacles 6.3 mm	8-pole	10	8JD 008 151-061	10
Male connector for flat receptacles       	1 male spade connector 6.3 mm	1-pole	10	8JD 008 152-001	10
	2 male spade connectors 6.3 mm	2-pole	10	8JD 008 152-011	10
	2 male spade connectors 6.3 mm	2-pole	10	8JD 008 152-021	10
	3 male spade connectors 6.3 mm	3-pole	10	8JD 008 152-031	10
	4 male spade connectors 6.3 mm	4-pole	10	8JD 008 152-041	10
	6 male spade connectors 6.3 mm	6-pole	10	8JD 008 152-051	10
	8 male spade connectors 6.3 mm	8-pole	10	8JD 008 152-061	10

4. Cable connectors

4.5 Female and male connector housings

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4.5.2 Female and male connector housings	Description	Pin	Contents (pcs)	Part number	PU in pcs.
CONI round male connector system    	Male pin housing	3-pole	10	8KW 744 851-003	10
	Male pin housing	6-pole	10	8KW 744 852-003	10
	Male pin housing	12-pole	10	8KW 744 853-003	10
	Male pin housing	15-pole	10	8KW 744 886-003	10
   	Female connector housing	3-pole	10	8KW 744 854-003	10
	Female connector housing	6-pole	10	8KW 744 855-003	10
	Female connector housing	12-pole	10	8KW 744 857-003	10
	Female connector housing	15-pole	10	8KW 744 856-003	10

4.5.2 Female and male connector housings	Description	Pin	Contents (pcs)	Part number	PU in pcs.
Mate'n'Lock plug systems    	Male pin housing	3-pole	10	8JA 180 663-002	10
	Male pin housing	6-pole	10	8JA 180 663-012	10
	Male pin housing	12-pole	10	8JA 180 663-022	10
	Male pin housing	15-pole	10	8JA 180 663-032	10
   	Female connector housing	3-pole	10	8JA 180 664-002	10
	Female connector housing	6-pole	10	8JA 180 664-012	10
	Female connector housing	12-pole	10	8JA 180 664-022	10
	Female connector housing	15-pole	10	8JA 180 664-032	10

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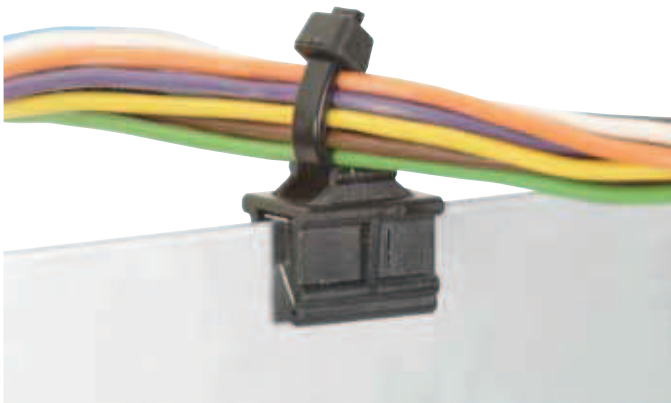
**Purpose:**

Fixing a bundle of conductors often takes more than just a cable tie. Our cable straps with integrated edge clips offer a complete fast and easy solution with a high retaining force.

They are weatherproof, flame-resistant and resistant to dilute organic acids, oils, fuel, seawater, solvents and grease. They offer perfect support for even the tiniest cross-section bundle, so fixing calls for no additional padding or other aids.

Advantages:

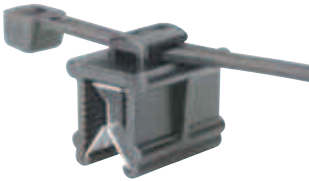
- Complete fastening in a single product
- Suitable for numerous positionings and edge thicknesses
- Powerful specification with OEM references

Sample applications:

5. Insulation & bundling

5.1 Cable straps with edge clips

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5.1 Cable straps with edge clips	L x W mm	Depth of profile	Colour	Capacity in mm	Contents in pcs.	Short designation	Part number	PU in pcs.
       	200 x 4.8	0.7 - 3.0 mm	■	Ø 48	100		8HL 185 549-001	100
	200 x 4.8	0.7 - 3.0 mm	■	Ø 48	100		8HL 185 549-011	100
	200 x 4.8	0.7 - 3.0 mm	■	Ø 48	100		8HL 185 549-021	100
	200 x 4.8	0.7 - 3.0 mm	■	Ø 48	100		8HL 185 549-031	100
	200 x 4.8	3.0 - 6.0 mm	■	Ø 48	100		8HL 185 549-041	100
	200 x 4.8	3.0 - 6.0 mm	■	Ø 48	100		8HL 185 549-051	100
	200 x 4.8	3.0 - 6.0 mm	■	Ø 48	100		8HL 185 549-061	100
	200 x 4.8	3.0 - 6.0 mm	■	Ø 48	100		8HL 185 549-071	100

**Purpose:**

Cable straps facilitate the fast attachment and bundling of cables, wiring harnesses and numerous other components. Our system, which has remained virtually unaltered for decades, is simple, cheap and universal in equal measure.

Advantages:

- Comprehensive assortment including numerous lengths and widths
- In each case either black or natural
- Additional fixing elements further broaden the range of possible applications

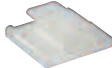
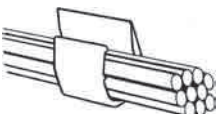
5.4 Cable straps	L x W mm	Colour	Capacity mm	Contents in pcs.	Short designation	Part number	PU in pcs.
	100 x 2.5	□	Ø 22	100	E 01	8HL 707 877-002	100
	100 x 2.5	■	Ø 22	100	E 02	8HL 717 962-001	100
	160 x 4.8	□	Ø 36	100	E 03	8HL 707 877-081	100
	160 x 4.8	■	Ø 36	100	E 04	8HL 717 962-161	100
	140 x 3.6	□	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

5. Insulation & bundling

5.2 Cable straps

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5.4 Cable straps	L x W mm	Colour	Capacity mm	Contents in pcs.	Short designation	Part number	PU in pcs.
	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

5.4 Cable straps	Designation	Contents (pcs)	Short designation	Part number	PU in pcs.
Accessories      	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, for additional fixing you can use an M5 bolt; (without cable straps) size 27.7 x 27.7 x 5.7 mm	100	E 29	8HL 707 879-012	100
	Expansion bolts for cable straps up to 4.8 mm, hole diameter: 6.5 mm thickness of metal plate: 0.7 - 2.5 mm	100	E 52	8HL 707 878-012	100
	Expansion bolts for cable straps up to 4.8 mm, hole diameter: 6.5 mm thickness of metal plate: 2.5 - 4.0 mm	100	E 53	8HL 707 878-022	100



Purpose:

Cable straps facilitate the fast attachment and bundling of cables, wiring harnesses and numerous other components. This special removable variant can be used a number of times and is ideally suitable for temporary fastenings, such as fixing irritating cable groups out of the way when servicing a vehicle.

Advantages:

- Multiple-use loadable fastener solution
- Various lengths

5.3 Removable cable straps	L x W mm	Colour	Capacity in mm	Contents in pcs.	Short designation	Part number	PU in pcs.
	150 x 7.6	■	Ø 35	50	E47	8HL 717 962-201	50
	200 x 7.6	■	Ø 50	50	E48	8HL 717 962-211	50
	250 x 7.6	■	Ø 70	50	E49	8HL 717 962-221	50
	300 x 7.6	■	Ø 90	50	E50	8HL 717 962-231	50
	400 x 7.6	■	Ø 100	50	E51	8HL 717 962-241	50

5. Insulation & bundling

5.4 Driller / 5.5 Cable clips / 5.6 Corrugated pipes

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The **driller**: Probably the fastest way to bundle and fasten cables.

5.4 Driller	Bundle Ø	Contents (pcs)	Short designation	Part number	PU in pcs.
Accessories 	10.2	100		8HL 177 884-002	100
	14.0	100		8HL 177 884-012	100
	19.0	100		8HL 177 884-022	100

Chassis cable clips for frame thickness 3–6 mm, length of clip leg: 21 mm, contains no hexavalent chromium

5.5 Cable clips	Description	Contents (pcs)	Short designation	Part number	PU in pcs.
Chassis cable clips  	Cable clip, 43 mm long	100		8HS 071 414-001	100
	Cable clip, 52.5 mm long	100		8HS 071 415-001	100

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°C to +140°C (briefly +160°C)
- hardly flammable
- halogen-free
- UV-resistant

5.6 Corrugated pipes	Nominal ID	Inner diameter	Outer diameter	Material	Contents in pcs.	Part number	PU in pcs.
Slotted corrugates pipes 	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

5.6 Corrugated pipes	Nominal ID	Inner diameter	Outer diameter	Material	Contents in pcs.	Part number	PU in pcs.
Corrugated tubes, non-slit 	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
Corrugated tubes non-slit, ADR-suitable	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 over corrugated pipes is their greater flexibility, allowing cables to be routed in and out of anywhere with no difficulty.

5.7 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

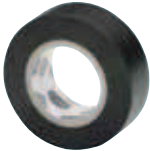
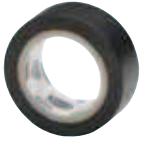
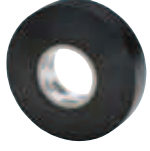


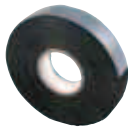
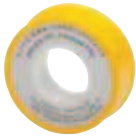
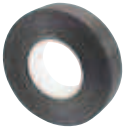
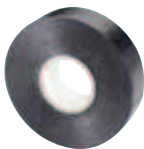
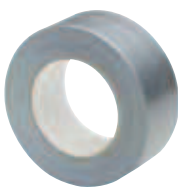
Purpose:

Adhesive insulating tape is made of non-conductive material, making it suitable for numerous application in the area of vehicle repairs without risking any deleterious effects on the onboard electrical system. Whether it be bundling, fastening, temporary insulation or simple colour coding – the traditional and well-tried all-purpose system always reliably does the trick. There are now numerous special variants that are especially suitable for some particular area of application.

Advantages:

- Varied assortment of different lengths, widths and materials
- Robust and reliable
- For numerous applications

5.8 Insulating tapes	Description/Material	Colour	Length	Width in mm	Thickness in mm	Temperature range °C	Contents in pcs.	Part number	PU in pcs.
	PVC	■	10 m	15	0.15	-10°C to +105°C	2	9MJ 707 869-852	1
	PVC	■	10 m	15	0.15	-10°C to +105°C	10	9MJ 707 869-013	10
	PVC	□	10 m	15	0.15	-10°C to +105°C	10	9MJ 707 870-013	10
	PVC	■	10 m	15	0.15	-10°C to +105°C	10	9MJ 707 871-013	10
	PVC	■	10 m	15	0.15	-10°C to +105°C	10	9MJ 707 873-013	10
	PVC	■	10 m	15	0.15	-10°C to +105°C	10	9MJ 707 874-013	10
	PVC	■	10 m	15	0.15	-10°C to +105°C	10	9MJ 707 875-013	10
	PVC	■	4.5 m	15	0.15	-10°C to +105°C	10	9MJ 707 869-003	10
	PVC	■	4.5 m	15	0.15	-10°C to +105°C	10	9MJ 707 872-003	10
	PVC	■	4.5 m	15	0.15	-10°C to +105°C	10	9MJ 707 875-003	10
	PVC	■	25 m	15	0.15	-10°C to +105°C	10	9MJ 186 375-003	10

5.8 Insulating tapes	Description/Material	Colour	Length	Width in mm	Thickness in mm	Temperature range °C	Contents in pcs.	Part number	PU in pcs.
	Self-sealing adhesive tape, tear strength >20.0 N/cm; for repairing damaged cable sheathing	■	5 m	19	1.0	-40°C to +105°C	1	9MJ 735 430-001	1
	Fabric tape (Teflon tape)	□	12 m	12	0.1	-20°C to +125°C	10	9XX 734 570-001	10
	dirt-repellent, good media resistance polyester fabric	■	25 m	19	0.17	-40°C to +125°C	1	9MJ 176 267-001	1
	Flap/abrasion protection for taping harnesses nonwoven polyester fabric	■	25 m	19	0.3	-40°C to +105°C	1	9MJ 176 269-001	1
	especially suitable for repairs and insulating work in unfavourable weather conditions PVC	■	20 m	19	0.2	-20°C to +105°C	1	9MJ 176 270-001	1
	excellent media resistance, increased stability at high and low temperatures, suitable for working in the engine compartment PVC	■	33 m	19	0.15	-40°C to +125°C	1	9MJ 176 271-001	1
	High quality all-purpose assembly adhesive tape for masking, fastening and sealing PE fabric	■	50 m	19	0.18	-40°C to +80°C	1	9MJ 186 375-011	1



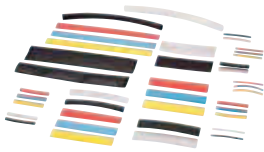
Purpose:

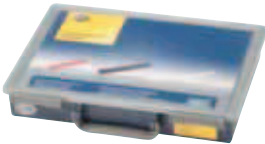
Heat-shrinkable tubing are an excellent way of sealing and insulating connections and crimp contacts or repairing damaged cable harnesses. Their wide range of colours means that they are also suitable for bundling and marking purposes. A variety of shrinkage factors are available, with or without adhesive pre-applied to the inner surface.

Advantages:

- Various lengths, diameters and shrinkage factors
- Wide range of applications
- Self-extinguishing

5.9 Heat shrink hoses	Shrink rate	Colour	Length	Diameter in mm	Minimum shrinkage temperature	Temperature range °C	Contents in pcs.	Part number	PU in pcs.
Heat shrink hoses off the roll 	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
Heat shrink hose sections with pre-applied adhesive inside 	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	Length	Ø in mm	Temperature range °C	Contents in pcs.	Part number	PU in pcs.
Heat shrink hose sets Shrink factor 2:1 	20 each of red, yellow, blue	50	2.4	-55°C to +125°C	60	9MJ 178 458-002	1
	30 each of black and transparent	50	2.4		60	9MJ 178 458-012	1
	20 each of red, yellow, blue	50	3.2		60	9MJ 178 458-022	1
	30 each of black and transparent	50	3.2		60	9MJ 178 458-032	1
	20 each of red, yellow, blue	50	4.8		60	9MJ 178 458-042	1
	30 each of black and transparent	50	4.8		60	9MJ 178 458-052	1
	20 each of red, yellow, blue	50	6.4		60	9MJ 178 458-062	1
	30 each of black and transparent	50	6.4		60	9MJ 178 458-072	1
	4 each of red, yellow, blue, black, transparent	100	9.5		20	9MJ 178 458-082	1
	4 each of red, yellow, blue, black, transparent	100	12.5		20	9MJ 178 458-092	1
	10 each of black and transparent	100	19.1		20	9MJ 178 458-102	1
	5 each of red, yellow, blue, black, transparent	200	9.5		25	9MJ 178 458-112	1
	black	200	5 each of 19.1 and 25.4		10	9MJ 178 458-122	1

7.1 Heat shrink hose assortment	Designation	Part number Case	PU in pcs.
Contents of assortment case of heat-shrinkable tubing 	Case containing an assortment of different heat shrink hoses with a shrink rate of 2:1, usage temperature -55 to +125°C, flame-retardant and self-extinguishing; UL224 shrinkage temperature min. 120°C	9MJ 178 458-801	1

7.1 Contents of assortment case of heat-shrinkable tubing	Colour	Ø in mm	Length	Quantity in the assortment	7.1 refill	Quantity in the assortment	Part number	PU in pcs.
	20 each of red, yellow, blue	2.4	50	60	Spare parts	60	9MJ 178 458-002	1
	30 each of black and transparent	2.4	50	60		60	9MJ 178 458-012	1
	20 each of red, yellow, blue	3.2	50	60		60	9MJ 178 458-022	1
	30 each of black and transparent	3.2	50	60		60	9MJ 178 458-032	1
	20 each of red, yellow, blue	4.8	50	60		60	9MJ 178 458-042	1
	30 each of black and transparent	4.8	50	60		60	9MJ 178 458-052	1
	20 each of red, yellow, blue	6.4	50	60		60	9MJ 178 458-062	1
	30 each of black and transparent	6.4	50	60		60	9MJ 178 458-072	1
	4 each in black, transparent red, yellow, blue,	9.5	100	20		20	9MJ 178 458-082	1
	4 each in black, transparent red, yellow, blue,	12.5	100	20		20	9MJ 178 458-092	1
	10 each of black and transparent	19.1	100	20		20	9MJ 178 458-102	1
	5 each in black, transparent red, yellow, blue,	9.5	200	25		25	9MJ 178 458-112	1
	black	5 each of 19.1 and 25.4	200	10		10	9MJ 178 458-122	1