



Heavy Duty Connector

**Terminal Block**



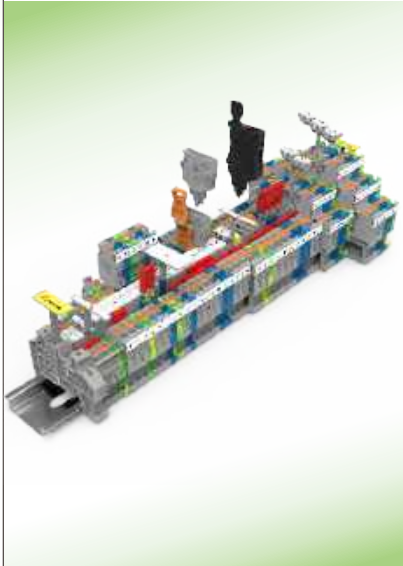
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ISO9001 ISO14001 ISO80079-34 ISO/TS22163 IATF16949

**Circular Connectors**



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**Din Rail Terminal Block**



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**EV Charger**



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**Interface Electronics**



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**Customized Product**



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The catalog is only for reference,and the detail data must be based on our company's specification!



HC 23-E01

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Assembly Details

① Cable gland:

M type thread or PG type thread ,depending on wire range of cables or conductors.

② Hoods:

Standard or high construction, top or side cable entry,2 or 4 locking point,1 or 2 locking levers.

③ Male contact & Female contact:

Normal material is copper alloy,silver plated or gold plated.

④ Male insert & Female insert:

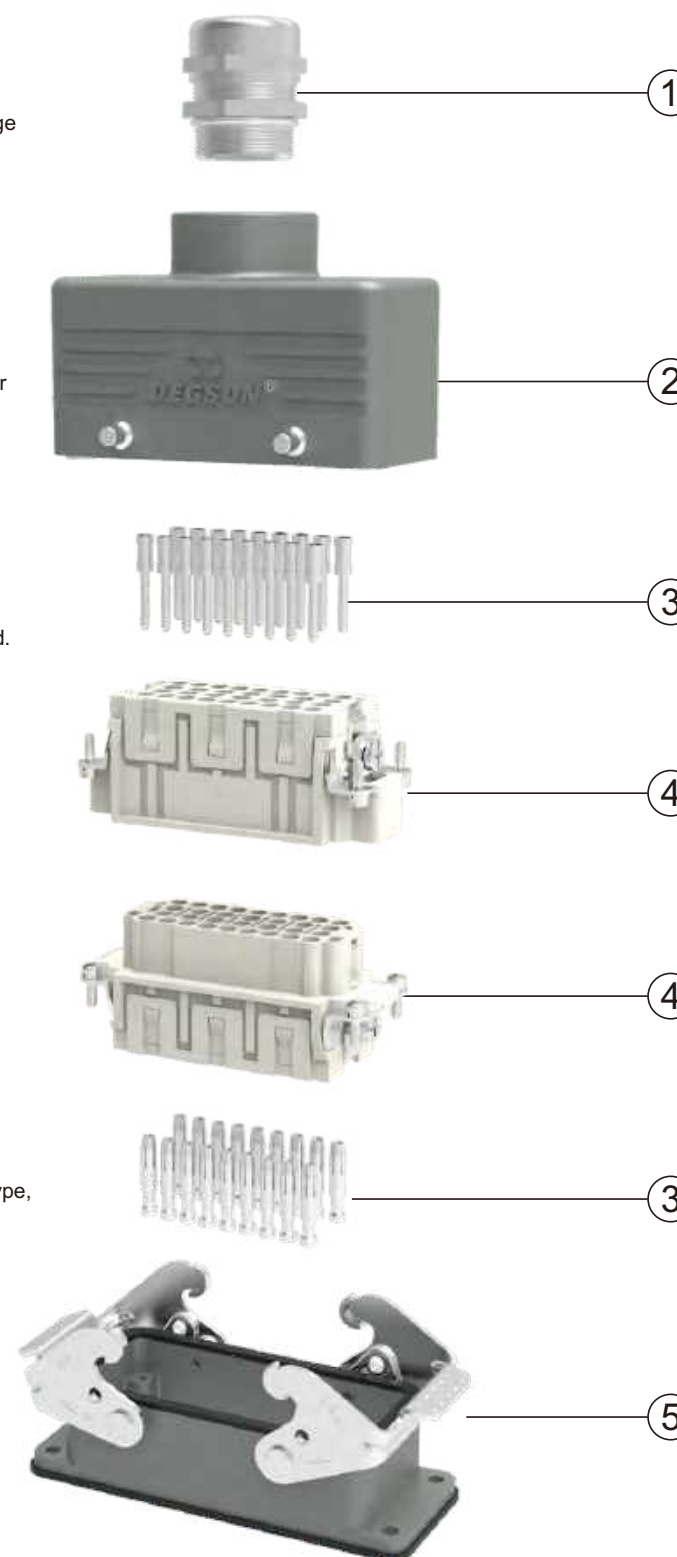
Male insert with screw connection or crimp connection or cage-clamp connection or push-in connection.

⑤ Housing:

Bulkhead mounting,surface mounting or cable to cable type, with 1 or 2 locking levers and 2 or 4 locking points.

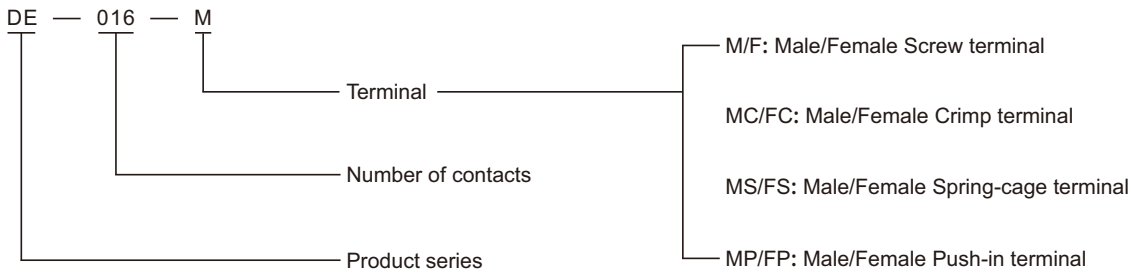
Accessories:

Protection covers/code and guide pins for coding/tools.

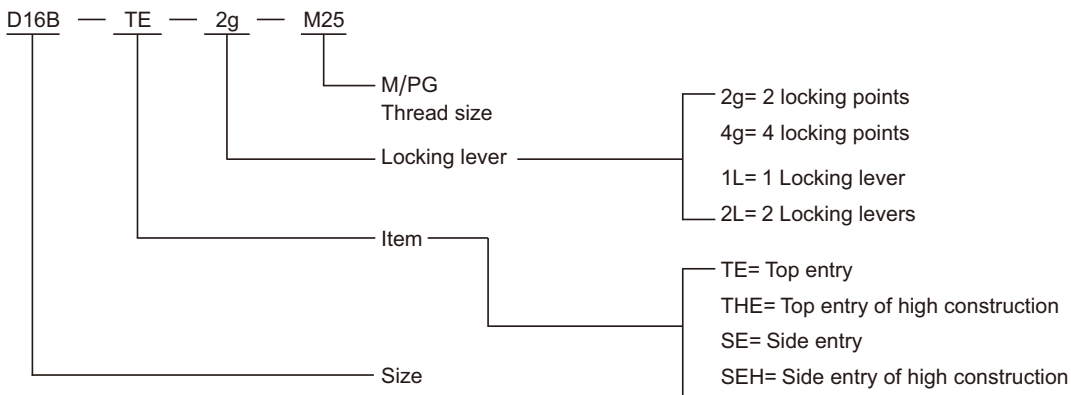


How to Order

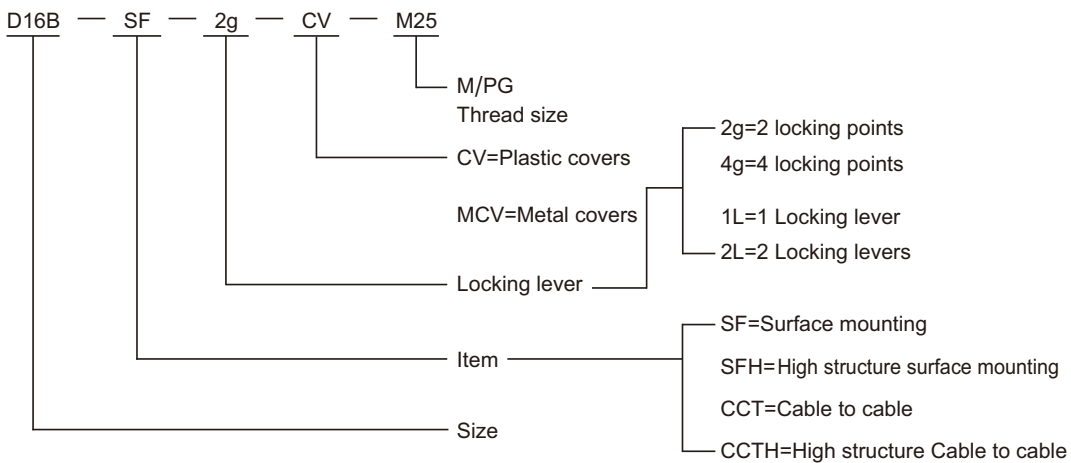
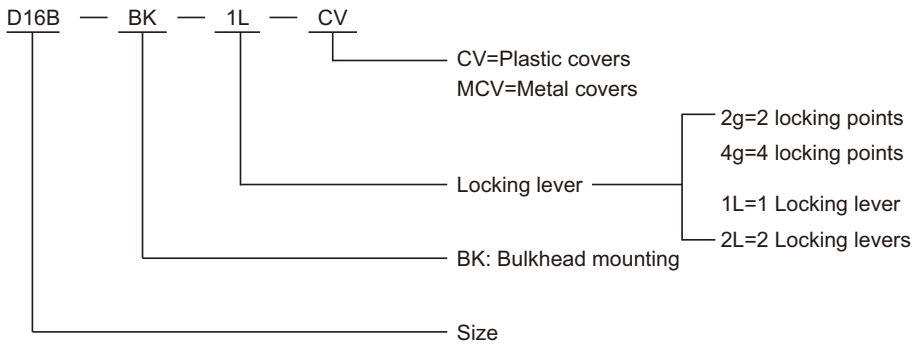
Inserts



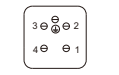
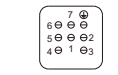
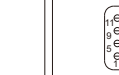
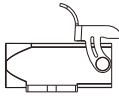
Hoods

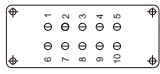
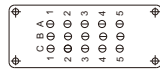
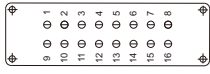
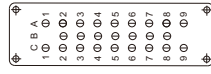
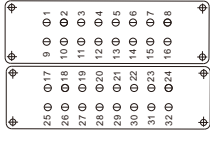
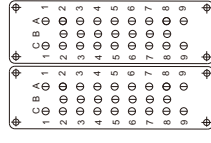
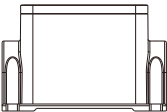
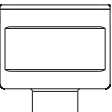


Housings

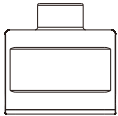
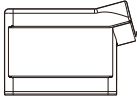
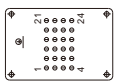
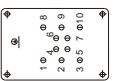
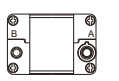
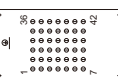
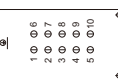
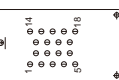
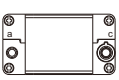
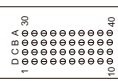
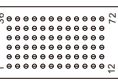
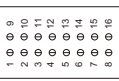
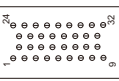
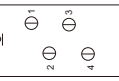
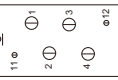
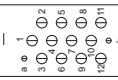
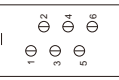
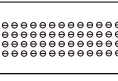
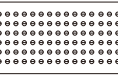
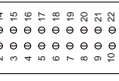
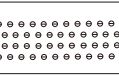
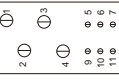
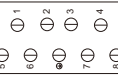
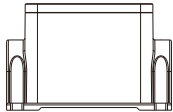
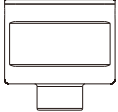


A Serie Housing Matched Contact Insert

Top Entry							Side Entry						
3A													
	DA-003	DA-004	DD-007	DD-008	DQ-005	DQ-007	DQ-012						
	3P+⊕	4P+⊕	7P+⊕	8P	5P+⊕	7P+⊕	12P+⊕						
	10A	10A	10A	10A	16A	16A	10A						
	230/400V	230/400V	250V	50V	230/400V	400V	400V						
													
Bulkhead Mounting				Bulkhead Mounting				Bulkhead Mounting				Cable to Cable	

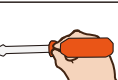
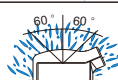
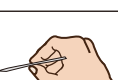
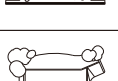
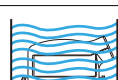
Top Entry				Side Entry												
10A																
	DA-010			DD-015												
16A																
	DA-016			DD-025												
32A																
	DA-032			DD-050												
	10,16,32P+⊕			15,25,50P+⊕												
	16A			10A												
	250V			250V												
																
Bulkhead Mounting				Surface Mounting				Cable To Cable								

B Serie Housing Matched Contact Insert

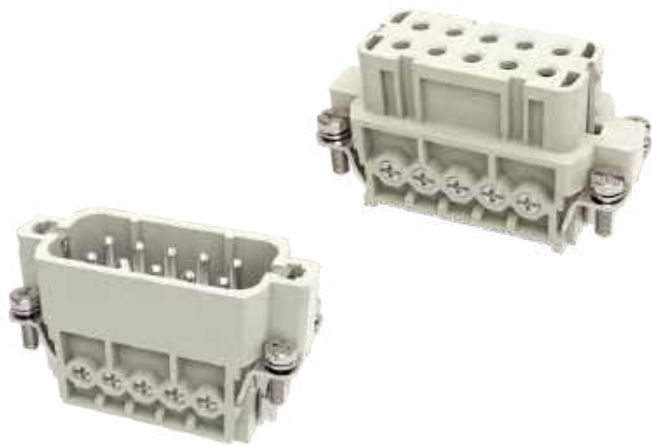
 					
6B	 DDD-024	 DE-006	 DEE-010	 DF6B	
	24P+⊕ 10A 250V	6P+⊕ 16A 500V	10P+⊕ 16A 500V	2 modules	
10B	 DDD-042	 DE-010	 DEE-018	 DK-8/24	 DF10B
	42P+⊕ 10A 250V	10P+⊕ 16A 500V	18P+⊕ 16A 500V	32P+⊕ 16/10A 400/250V	3 modules
16B	 DD-040	 DDD-072	 DE-016	 DEE-032	 DK-4/0
	40P+⊕ 10A 250V	72P+⊕ 10A 250V	16P+⊕ 16A 500V	32P+⊕ 16A 500V	4P+⊕ 80A 690V
	 DK-4/2	 DK-12/2	 DSB-006	 DF16B	
	6P+⊕ 80/16A 690/400V	14P+⊕ 40/10A 690/250V	6P+⊕ 35A 400/690V	4 modules	
24B	 DD-064	 DDD-108	 DE-024	 DEE-046	 DK-4/8
	64P+⊕ 10A 250V	108P+⊕ 10A 250V	24P+⊕ 16A 500V	46P+⊕ 16A 500V	12P+⊕ 80/16A 400/400V
	 DK-8/0	 DF24B			
	8P+⊕ 100A 690V	6 modules			
32B	DD-080, DDD-144, DE-032, DEE-064, DSB-012				
48B	DD-128, DDD-216, DE-048, DEE-092				
  					
Bulkhead Mounting					
Surface Mounting					
Cable To Cable					

Housings Connector Insert Protection

The connector's housing, sealing and locking mechanism protect the connection from external influences such as mechanical shocks, foreign bodies, humidity, dust, water or other fluids such as cleaning and cooling agents, oils, etc. The degree of protection the housing offers is explained in the IEC60529, DIN EN60529, standards that categorize enclosures according to foreign body and water protection.

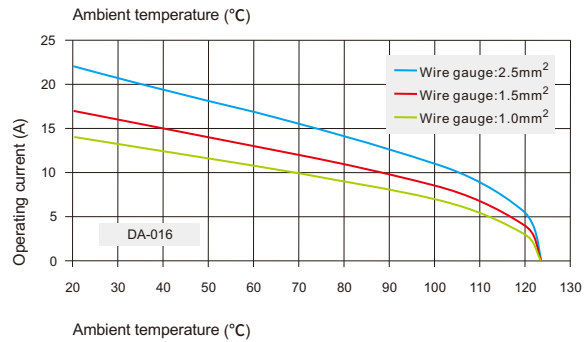
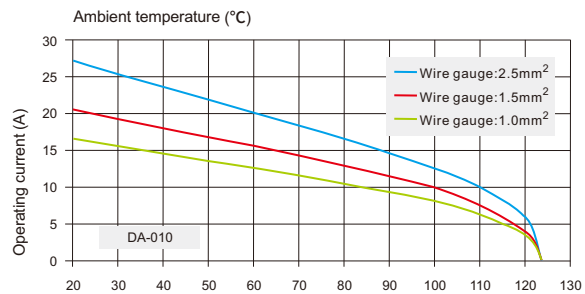
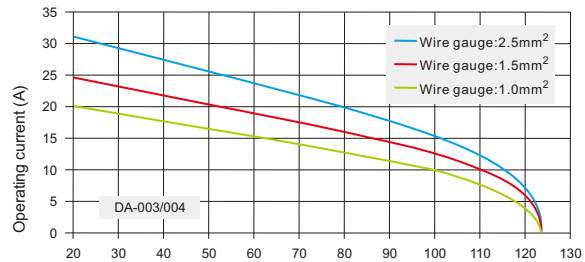
Code letters (International protection)		First Index Figure (Foreign bodies protection)		Second Index Figure (Water protection)		
IP		6		5		
Index figure	Index figure			Index figure	Index figure	
0	No protection		No protection against accidental contact, no protection against solid foreign bodies	0	No protection against water	No protection against water
1	Protection against large foreign bodies		Protection against contact with any large area by hand and against large solid foreign bodies with $\phi > 50\text{mm}$	1	Drip-proof	 Protection against vertical water drips
2	Protection against medium sized foreign bodies		Protection against contact with the fingers, protection against solid foreign bodies with $\phi > 12\text{mm}$	2	Drip-proof	 Protection against water drips (up to a 15° angle)
3	Protection against small solid foreign bodies		Protection against tools, wires or similar objects with $\phi > 2.5\text{mm}$, protection against small foreign solid bodies with $\phi > 2.5\text{mm}$	3	Spray-proof	 Protection against diagonal water drips (up to a 60° angle)
4	Protection against grain-shaped foreign bodies		As 3 however $\phi > 1\text{mm}$	4	Splash-proof	 Protection against splashed water from all direction
5	Protection against injurious deposits of dust		Full protection against contact, protection against interior injurious dust deposits	5	Hose-proof	 Protection against water (out of a nozzle) from all directions
6	Protection against ingress of dust		Total protection against contact, protection against penetration of dust	6	Strong hose-proof	 Protection against strong water (out of a nozzle) from all directions
				7	Protection against immersion	 Protection against temporary immersion
				8	Protection water tight	 Protection against water pressure

DA ▪ Series



Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Inserts	
Number of contacts	3,4,10,16,32(2X16)+PE
DA-003/004	
• Rated current	10A
• Rated voltage conductor-ground	230V
• Rated voltage conductor-conductor	400V
• Rated impulse voltage	4KV
• Pollution degree	3
• or	10A 250V 4KV 3
DA-010/016	
• Rated current	16A
• Rated voltage	250V
• Rated impulse voltage	4KV
• Pollution degree	3
• Pollution degree 2 also	16A 230/400V 4KV 2
Rated voltage acc.to UL CSA	600V
Insulation resistance	≥ 10 ¹⁰ Ω
Material	Polycarbonate
Limiting temperatures	-40 °C ~+125 °C
Flammability acc.to UL94	V0
Mechanical working life-mating cycles	≥ 500
Contacts	
Material	Copper alloy
Surface	Hard-gold plated Hard-silver plated
Contact resistance	≤ 1m Ω
Screw terminal	
• Wire gauge	1-2.5mm ²
• AWG	18-14
• Tightening torque	0.25Nm(DA-003/004) or 0.5Nm(DA-010/016)
Crimp terminal	
• Wire gauge	0.14-4mm ²
• AWG	26-12
Cage-clamp	
• Wire gauge	0.14-2.5mm ²
• AWG	26-14



Current carrying capacity

The current carrying is limited by maximum temperature of materials for Inserts and contacts including terminals.

Measuring and testing techniques according to DIN EN 60512-5.

DA-003/004 The Slim Inserts 230V/400V 10A 3/4+⊕

Hoods/Housings: Matching 3A Hoods Housing, detail on P108-110

Inserts	Male	Female	Wire gauge		Drawing
			mm ²	AWG	
Screw terminal	DA-003-M	DA-003-F	0.75-1.5	18-14	Dimension and hole site
Cage-clamp	DA-003-MS	DA-003-FS	0.5-2.5	20-14	Dimension and hole site
Screw terminal	DA-004-M	DA-004-F	0.75-1.5	18-14	Dimension and hole site
Cage-clamp	DA-004-MS	DA-004-FS	0.5-2.5	20-14	Dimension and hole site

DA-010 The Slim Inserts 250V 16A 10+

Hoods/Housings: Matching 10A Hoods Housing, detail on P111

Inserts	Male	Female	Wire gauge		Drawing
			mm ²	AWG	
	DA-010-M	DA-010-F	1.0-2.5	18-14	Distance for contact max.24mm
					Contacts arrangement view for termination side

DA-016 The Slim Inserts 250V 16A 16+

Hoods/Housings: Matching 16A Hoods Housing, detail on P112

Inserts	Male	Female	Wire gauge		Drawing
			mm ²	AWG	
	DA-016-M	DA-016-F	1.0-2.5	18-14	Distance for contact max.24mm
					Contacts arrangement view for termination side

Accessories

When cold pressing connection is selected, additional stitches are needed, as shown in the attachment below:

(16A) Crimp contacts Material: Copper alloy Contact resistance ≤ 1mΩ Matching: DA, DE, DEE, DM, DK inserts Surface: Gold/silver plated Terminal: Crimp connection							
Contacts, silver-plated		Contacts, gold plated		(φ A)	Wire gauge		Recommended stripping length
Male Contacts	Female Contacts	Male Contacts	Female Contacts		(mm ²)	(AWG)	
16A-SM-0.37	16A-SF-0.37	16A-GM-0.37	16A-GF-0.37	0.9	0.14-0.37	26-22	7.5mm
16A-SM-0.5	16A-SF-0.5	16A-GM-0.5	16A-GF-0.5	1.1	0.50	20	7.5mm
16A-SM-0.75	16A-SF-0.75	16A-GM-0.75	16A-GF-0.75	1.3	0.75	18	7.5mm
16A-SM-1.0	16A-SF-1.0	16A-GM-1.0	16A-GF-1.0	1.45	1.00	18	7.5mm
16A-SM-1.5	16A-SF-1.5	16A-GM-1.5	16A-GF-1.5	1.75	1.50	16	7.5mm
16A-SM-2.5	16A-SF-2.5	16A-GM-2.5	16A-GF-2.5	2.25	2.50	14	7.5mm
16A-SM-4.0	16A-SF-4.0	16A-GM-4.0	16A-GF-4.0	2.85	4.00	12	7.5mm

Tools

Crimping tool	Removal tool
Wire gauge : 0.5~4.0mm ² (AWG 20-12)	For: 16A 16A Crimp contacts
Type : TL1-4.0	Type : RT-16A

Accessories

When cold pressing connection is selected, additional stitches are needed, as shown in the attachment below:

(16A) Crimp contacts Material: Copper alloy Contact resistance ≤ 1mΩ Matching: DA, DE, DEE, DM, DK inserts Surface: Gold/silver plated Terminal: Crimp connection							
Contacts, silver-plated		Contacts, gold plated		(φ A)	Wire gauge		Recommended stripping length
Male Contacts	Female Contacts	Male Contacts	Female Contacts		(mm ²)	(AWG)	
16A-SM-0.37	16A-SF-0.37	16A-GM-0.37	16A-GF-0.37	0.9	0.14-0.37	26-22	7.5mm
16A-SM-0.5	16A-SF-0.5	16A-GM-0.5	16A-GF-0.5	1.1	0.50	20	7.5mm
16A-SM-0.75	16A-SF-0.75	16A-GM-0.75	16A-GF-0.75	1.3	0.75	18	7.5mm
16A-SM-1.0	16A-SF-1.0	16A-GM-1.0	16A-GF-1.0	1.45	1.00	18	7.5mm
16A-SM-1.5	16A-SF-1.5	16A-GM-1.5	16A-GF-1.5	1.75	1.50	16	7.5mm
16A-SM-2.5	16A-SF-2.5	16A-GM-2.5	16A-GF-2.5	2.25	2.50	14	7.5mm
16A-SM-4.0	16A-SF-4.0	16A-GM-4.0	16A-GF-4.0	2.85	4.00	12	7.5mm

Tools

Crimping tool	Removal tool
Wire gauge : 0.5~4.0mm ² (AWG 20-12)	For: 16A 16A Crimp contacts
Type : TL1-4.0	Type : RT-16A

DA-032 The Slim Inserts 250V 16A 32+

Hoods/Housings: Matching 32A Hoods Housing, detail on P113-114

Inserts	Male	Female	Wire gauge		Drawing
			mm ²	AWG	
	DA-016-M DA-016-M(17-32)	DA-016-F DA-016-F(17-32)	1.0-2.5	18-14	Distance for contact max.21mm
					Contacts arrangement view for termination side
	DA-016-MC DA-016-MC(17-32)	DA-016-FC DA-016-FC(17-32)	0.14-4.0	26-14	Panel cut out for use without Hoods/housings
					Panel cut out for use without Hoods/housings

Accessories

When cold pressing connection is selected, additional stitches are needed, as shown in the attachment below:

(16A) Crimp contacts							
Material: Copper alloy							
Contact resistance ≤ 1mΩ							
Matching: DA, DE, DEE, DM, DK inserts							
Surface: Gold/silver plated							
Terminal: Crimp connection							

DD-007 Ultra-high Density Inserts 250V 10A 7+ $\oplus$
DD-008 Ultra-high Density Inserts -120V/∼50V 10A 8+ $\oplus$

Hoods/Housings: Matching 3A Hoods Housing, detail on P108-110

Inserts	Male	Female	Wire gauge		Drawing
			mm ²	AWG	
Crimp terminal	DD-007-MC	DD-007-FC	0.14-2.5	26-14	Dimension and hole site
Crimp terminal	DD-008-MC	DD-008-FC	0.14-2.5	26-14	Dimension and hole site

Accessories

When cold pressing connection is selected, additional stitches are needed, as shown in the attachment below:

(10A) Crimp contacts							
Material: Copper alloy							
Contact resistance≤3mΩ							
Matching:DD,DDD,DM,DK,DQ inserts							
Surface: Gold/silver plated							
Terminal: Crimp connection							
Contacts,silver-plated		Contacts,gold plated		φ A	Wire gauge		Recommended stripping length
Male Contacts	Female Contacts	Male Contacts	Female Contacts		(mm ²)	(AWG)	
10A-SM-0.37	10A-SF-0.37	10A-GM-0.37	10A-GF-0.37	0.9	0.14-0.37	26-22	8mm
10A-SM-0.5	10A-SF-0.5	10A-GM-0.5	10A-GF-0.5	1.1	0.50	20	8mm
10A-SM-0.75	10A-SF-0.75	10A-GM-0.75	10A-GF-0.75	1.3	0.75	18	8mm
10A-SM-1.0	10A-SF-1.0	10A-GM-1.0	10A-GF-1.0	1.45	1.00	18	8mm
10A-SM-1.5	10A-SF-1.5	10A-GM-1.5	10A-GF-1.5	1.75	1.50	16	8mm
10A-SM-2.5	10A-SF-2.5	10A-GM-2.5	10A-GF-2.5	2.25	2.50	14	6mm

Tools

Crimping tool	Removal tool
Wire gauge : 0.5~4.0mm ² (AWG 20-12)	For: 10A 10A Crimp contacts
Type : TL1-4.0	Type : RT-10A

DD-015 Ultra-high Density Inserts 250V 10A 15+ $\oplus$

Hoods/Housings: Matching 10A Hoods Housing, detail on P111

Inserts	Male	Female	Wire gauge		Drawing
			mm ²	AWG	
Crimp terminal	DD-015-MC	DD-015-FC	0.14-2.5	26-14	Distance for contact max.24mm Contacts arrangement view for termination side Panel cut out for use without Hoods/housings

Accessories

When cold pressing connection is selected, additional stitches are needed, as shown in the attachment below:

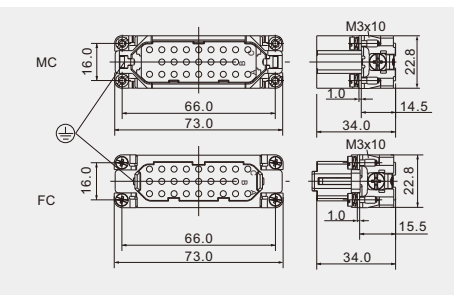
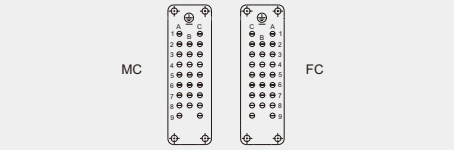
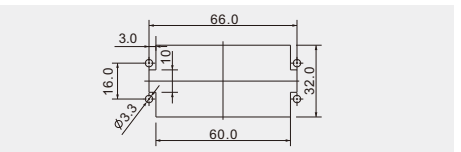
(10A) Crimp contacts							
Material: Copper alloy							
Contact resistance≤3mΩ							
Matching:DD,DDD,DM,DK,DQ inserts							
Surface: Gold/silver plated							
Terminal: Crimp connection							
Contacts,silver-plated		Contacts,gold plated		φ A	Wire gauge		Recommended stripping length
Male Contacts	Female Contacts	Male Contacts	Female Contacts		(mm ²)	(AWG)	
10A-SM-0.37	10A-SF-0.37	10A-GM-0.37	10A-GF-0.37	0.9	0.14-0.37	26-22	8mm
10A-SM-0.5	10A-SF-0.5	10A-GM-0.5	10A-GF-0.5	1.1	0.50	20	8mm
10A-SM-0.75	10A-SF-0.75	10A-GM-0.75	10A-GF-0.75	1.3	0.75	18	8mm
10A-SM-1.0	10A-SF-1.0	10A-GM-1.0	10A-GF-1.0	1.45	1.00	18	8mm
10A-SM-1.5	10A-SF-1.5	10A-GM-1.5	10A-GF-1.5	1.75	1.50	16	8mm
10A-SM-2.5	10A-SF-2.5	10A-GM-2.5	10A-GF-2.5	2.25	2.50	14	6mm

Tools

Crimping tool	Removal tool
Wire gauge : 0.5~4.0mm ² (AWG 20-12)	For: 10A 10A Crimp contacts
Type : TL1-4.0	Type : RT-10A

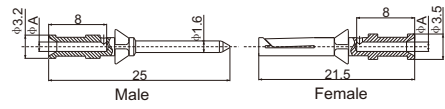
DD-025 Ultra-high Density Inserts 250V 10A 25+ $\oplus$

Hoods/Housings: Matching 16A Hoods Housing, detail on P112

Inserts	Male	Female	Wire gauge		Drawing
			mm ²	AWG	
Crimp terminal 	DD-025-MC	DD-025-FC	0.14-2.5	26-14	Distance for contact max.24mm  Contacts arrangement view for termination side  Panel cut out for use without Hoods/housings 

Accessories

When cold pressing connection is selected, additional stitches are needed, as shown in the attachment below:

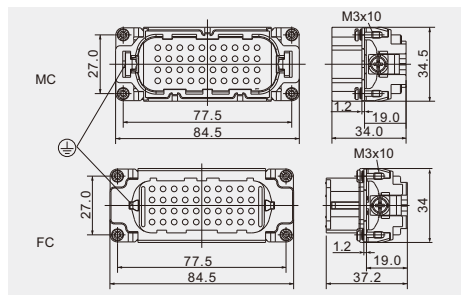
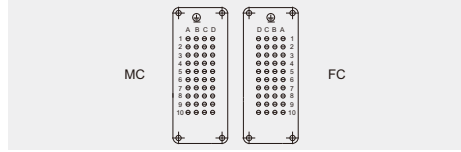
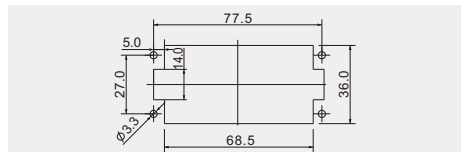
(10A) Crimp contacts Material: Copper alloy Contact resistance $\leq 3\text{m}\Omega$ Matching: DD,DDD,DM,DK,DQ inserts Surface: Gold/silver plated Terminal: Crimp connection							
Contacts,silver-plated		Contacts,gold plated		ϕ A	Wire gauge		Recommended stripping length
Male Contacts	Female Contacts	Male Contacts	Female Contacts		(mm ²)	(AWG)	
10A-SM-0.37	10A-SF-0.37	10A-GM-0.37	10A-GF-0.37	0.9	0.14-0.37	26-22	8mm
10A-SM-0.5	10A-SF-0.5	10A-GM-0.5	10A-GF-0.5	1.1	0.50	20	8mm
10A-SM-0.75	10A-SF-0.75	10A-GM-0.75	10A-GF-0.75	1.3	0.75	18	8mm
10A-SM-1.0	10A-SF-1.0	10A-GM-1.0	10A-GF-1.0	1.45	1.00	18	8mm
10A-SM-1.5	10A-SF-1.5	10A-GM-1.5	10A-GF-1.5	1.75	1.50	16	8mm
10A-SM-2.5	10A-SF-2.5	10A-GM-2.5	10A-GF-2.5	2.25	2.50	14	6mm

Tools

	
Crimping tool	Removal tool
Wire gauge : 0.5~4.0mm ² (AWG 20-12)	For: 10A 10A Crimp contacts
Type : TL1-4.0	Type : RT-10A

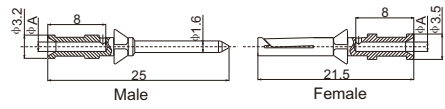
DD-040 Ultra-high Density Inserts 250V 10A 40+ $\oplus$

Hoods/Housings: Matching 16B Hoods Housing, detail on P124-130

Inserts	Male	Female	Wire gauge		Drawing
			mm ²	AWG	
Crimp terminal 	DD-040-MC	DD-040-FC	0.14-2.5	26-14	Distance for contact max.24mm  Contacts arrangement view for termination side  Panel cut out for use without Hoods/housings 

Accessories

When cold pressing connection is selected, additional stitches are needed, as shown in the attachment below:

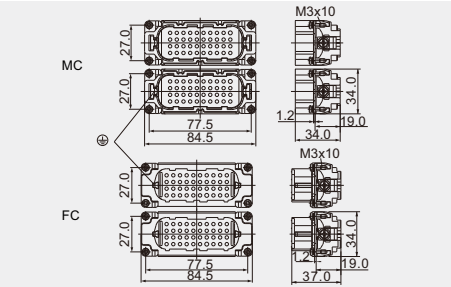
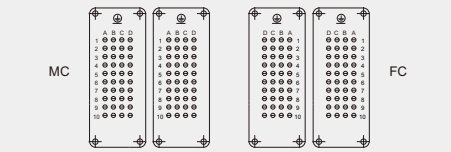
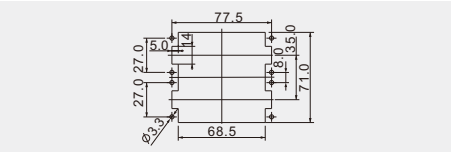
(10A) Crimp contacts Material: Copper alloy Contact resistance $\leq 3\text{m}\Omega$ Matching: DD,DDD,DM,DK,DQ inserts Surface: Gold/silver plated Terminal: Crimp connection							
Contacts,silver-plated		Contacts,gold plated		ϕ A	Wire gauge		Recommended stripping length
Male Contacts	Female Contacts	Male Contacts	Female Contacts		(mm ²)	(AWG)	
10A-SM-0.37	10A-SF-0.37	10A-GM-0.37	10A-GF-0.37	0.9	0.14-0.37	26-22	8mm
10A-SM-0.5	10A-SF-0.5	10A-GM-0.5	10A-GF-0.5	1.1	0.50	20	8mm
10A-SM-0.75	10A-SF-0.75	10A-GM-0.75	10A-GF-0.75	1.3	0.75	18	8mm
10A-SM-1.0	10A-SF-1.0	10A-GM-1.0	10A-GF-1.0	1.45	1.00	18	8mm
10A-SM-1.5	10A-SF-1.5	10A-GM-1.5	10A-GF-1.5	1.75	1.50	16	8mm
10A-SM-2.5	10A-SF-2.5	10A-GM-2.5	10A-GF-2.5	2.25	2.50	14	6mm

Tools

	
Crimping tool	Removal tool
Wire gauge : 0.5~4.0mm ² (AWG 20-12)	For: 10A 10A Crimp contacts
Type : TL1-4.0	Type : RT-10A

DD-080 Ultra-high Density Inserts 250V 10A 80+

Hoods/Housings: Matching 32B Hoods Housing, detail on P138-139

Inserts	Male	Female	Wire gauge		Drawing
			mm ²	AWG	
	DD-080-MC (2X40)	DD-080-FC (2X40)	0.14-2.5	26-14	Distance for contact max.24mm  Contacts arrangement view for termination side  Panel cut out for use without Hoods/housings 

Accessories

When cold pressing connection is selected, additional stitches are needed, as shown in the attachment below:

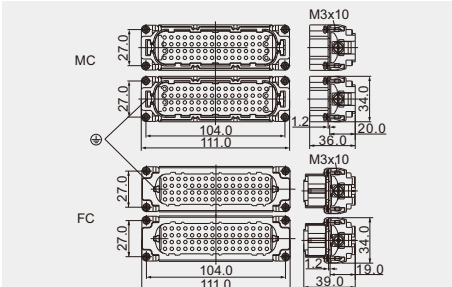
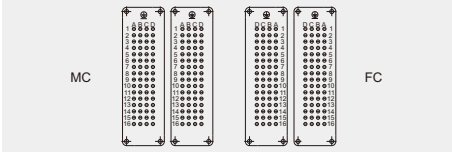
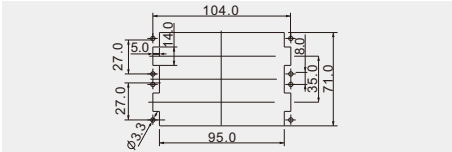
(10A) Crimp contacts							
Material: Copper alloy							
Contact resistance≤3mΩ							
Matching:DD,DDD,DM,DK,DQ inserts							
Surface: Gold/silver plated							
Terminal: Crimp connection							
Contacts,silver-plated		Contacts,gold plated		(φ A)	Wire gauge		Recommended stripping length
Male Contacts	Female Contacts	Male Contacts	Female Contacts		(mm ²)	(AWG)	
10A-SM-0.37	10A-SF-0.37	10A-GM-0.37	10A-GF-0.37	0.9	0.14-0.37	26-22	8mm
10A-SM-0.5	10A-SF-0.5	10A-GM-0.5	10A-GF-0.5	1.1	0.50	20	8mm
10A-SM-0.75	10A-SF-0.75	10A-GM-0.75	10A-GF-0.75	1.3	0.75	18	8mm
10A-SM-1.0	10A-SF-1.0	10A-GM-1.0	10A-GF-1.0	1.45	1.00	18	8mm
10A-SM-1.5	10A-SF-1.5	10A-GM-1.5	10A-GF-1.5	1.75	1.50	16	8mm
10A-SM-2.5	10A-SF-2.5	10A-GM-2.5	10A-GF-2.5	2.25	2.50	14	6mm

Tools

	
Crimping tool	Removal tool
Wire gauge : 0.5~4.0mm ² (AWG 20-12)	For: 10A 10A Crimp contacts
Type : TL1-4.0	Type : RT-10A

DD-128 Ultra-high Density Inserts 250V 10A 128+

Hoods/Housings: Matching 48B Hoods Housing, detail on P140

Inserts	Male	Female	Wire gauge		Drawing
			mm ²	AWG	
	DD-128-MC (2X64)	DD-128-FC (2X64)	0.14-2.5	26-14	Distance for contact max.24mm  Contacts arrangement view for termination side  Panel cut out for use without Hoods/housings 

Accessories

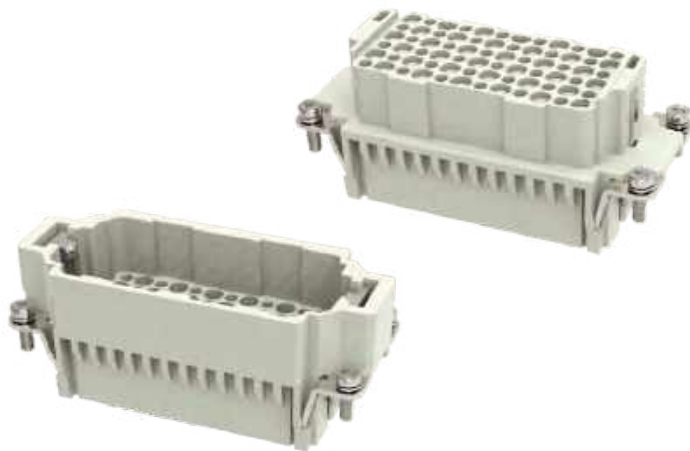
When cold pressing connection is selected, additional stitches are needed, as shown in the attachment below:

(10A) Crimp contacts							
Material: Copper alloy							
Contact resistance≤3mΩ							
Matching:DD,DDD,DM,DK,DQ inserts							
Surface: Gold/silver plated							
Terminal: Crimp connection							
Contacts,silver-plated		Contacts,gold plated		(φ A)	Wire gauge		Recommended stripping length
Male Contacts	Female Contacts	Male Contacts	Female Contacts		(mm ²)	(AWG)	
10A-SM-0.37	10A-SF-0.37	10A-GM-0.37	10A-GF-0.37	0.9	0.14-0.37	26-22	8mm
10A-SM-0.5	10A-SF-0.5	10A-GM-0.5	10A-GF-0.5	1.1	0.50	20	8mm
10A-SM-0.75	10A-SF-0.75	10A-GM-0.75	10A-GF-0.75	1.3	0.75	18	8mm
10A-SM-1.0	10A-SF-1.0	10A-GM-1.0	10A-GF-1.0	1.45	1.00	18	8mm
10A-SM-1.5	10A-SF-1.5	10A-GM-1.5	10A-GF-1.5	1.75	1.50	16	8mm
10A-SM-2.5	10A-SF-2.5	10A-GM-2.5	10A-GF-2.5	2.25	2.50	14	6mm

Tools

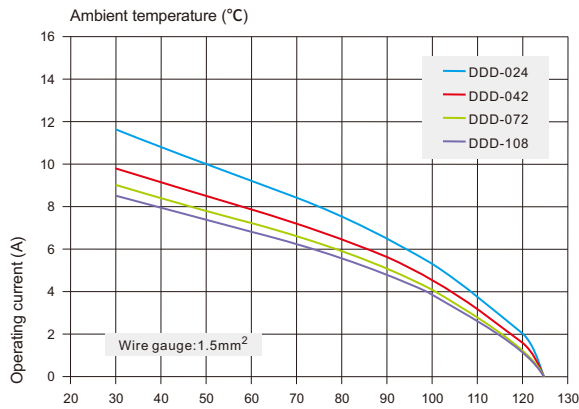
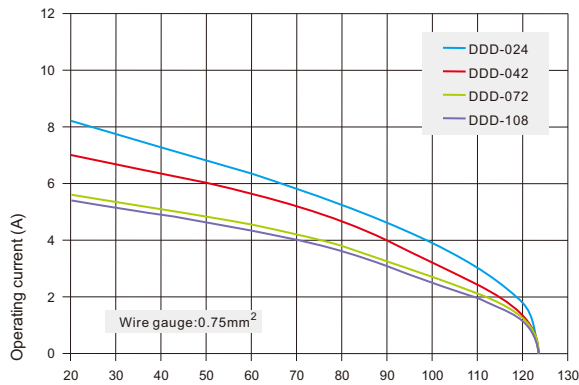
	
Crimping tool	Removal tool
Wire gauge : 0.5~4.0mm ² (AWG 20-12)	For: 10A 10A Crimp contacts
Type : TL1-4.0	Type : RT-10A

DDD ▪ Series



Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Inserts	
Electrical data acc.to EN 61 984	
Number of contacts	24,42,72,108,144(72X2),216(108X2)+PE
• Rated current	10A
• Rated voltage	250V
• Rated impulse voltage	4KV
• Pollution degree	3
• Pollution degree 2 also	10A 230/400V 4KV 2
Rated voltage acc.to UL CSA	600V
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Limiting temperatures	-40 °C ~+125 °C
Flammability acc.to UL94	V0
Mechanical working life-mating cycles	≥ 500
Contacts	
Material	Copper alloy
Surface	Hard-gold plated Hard-silver plated
Contact resistance	$\leq 3m \Omega$
Crimp terminal	
• Wire gauge	0.14-2.5mm ²
• AWG	26-14



Current carrying capacity

The current carrying is limited by maximum temperature of materials for Inserts and contacts including terminals.

Measuring and testing techniques according to DIN EN 60512-5.

DDD-024 Ultra-high Density Inserts 250V 10A 24+⊕

Hoods/Housings: Matching 6B Hoods Housing, detail on P115-117

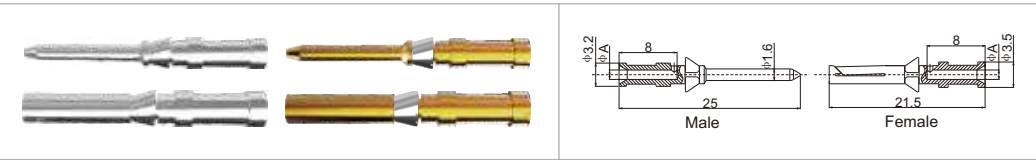
Inserts	Male	Female	Wire gauge		Drawing
			mm ²	AWG	
Crimp terminal	DDD-024-MC	DDD-024-FC	0.14-2.5	26-14	Distance for contact max.21mm Contacts arrangement view for termination side Panel cut out for use without Hoods/housings

Accessories

When cold pressing connection is selected, additional stitches are needed, as shown in the attachment below:

(10A) Crimp contacts

Material: Copper alloy
Contact resistance $\leq 3m\Omega$
Matching:DD,DDD,DM,DK,DQ inserts
Surface: Gold/silver plated
Terminal: Crimp connection



Contacts,silver-plated		Contacts,gold plated		ϕ A	Wire gauge		Recommended stripping length
Male Contacts	Female Contacts	Male Contacts	Female Contacts		(mm ²)	(AWG)	
10A-SM-0.37	10A-SF-0.37	10A-GM-0.37	10A-GF-0.37	0.9	0.14-0.37	26-22	8mm
10A-SM-0.5	10A-SF-0.5	10A-GM-0.5	10A-GF-0.5	1.1	0.50	20	8mm
10A-SM-0.75	10A-SF-0.75	10A-GM-0.75	10A-GF-0.75	1.3	0.75	18	8mm
10A-SM-1.0	10A-SF-1.0	10A-GM-1.0	10A-GF-1.0	1.45	1.00	18	8mm
10A-SM-1.5	10A-SF-1.5	10A-GM-1.5	10A-GF-1.5	1.75	1.50	16	8mm
10A-SM-2.5	10A-SF-2.5	10A-GM-2.5	10A-GF-2.5	2.25	2.50	14	6mm

Tools



Crimping tool

Wire gauge : 0.5~4.0mm² (AWG 20-12)
Type : TL1-4.0

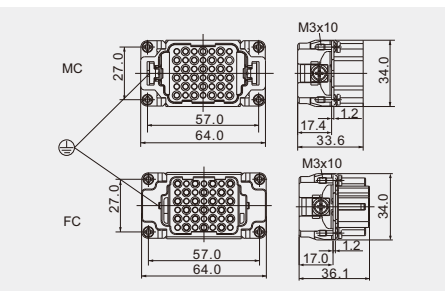
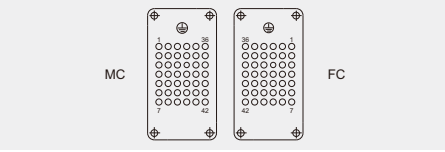
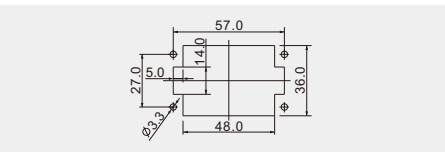


Removal tool

For: 10A 10A Crimp contacts
Type : RT-10A

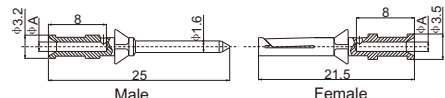
DDD-042 Ultra-high Density Inserts 250V 10A 42+⊕

Hoods/Housings: Matching 10B Hoods Housing, detail on P118-123

Inserts	Male	Female	Wire gauge		Drawing
			mm²	AWG	
	DDD-042-MC	DDD-042-FC	0.14-2.5	26-14	Distance for contact max.21mm  Contacts arrangement view for termination side  Panel cut out for use without Hoods/housings 

Accessories

When cold pressing connection is selected, additional stitches are needed, as shown in the attachment below:

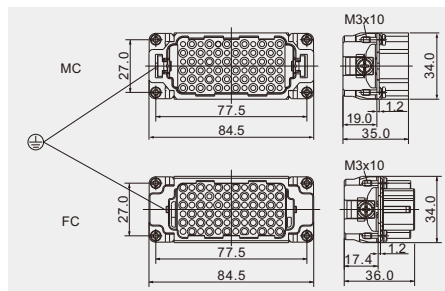
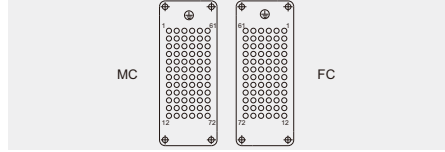
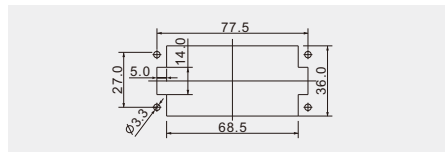
(10A) Crimp contacts							
Material: Copper alloy							
Contact resistance≤3mΩ							
Matching:DD,DDD,DM,DK,DQ inserts							
Surface: Gold/silver plated							
Terminal: Crimp connection							
Contacts,silver-plated		Contacts,gold plated		(φ A)	Wire gauge		Recommended stripping length
Male Contacts	Female Contacts	Male Contacts	Female Contacts		(mm²)	(AWG)	
10A-SM-0.37	10A-SF-0.37	10A-GM-0.37	10A-GF-0.37	0.9	0.14-0.37	26-22	8mm
10A-SM-0.5	10A-SF-0.5	10A-GM-0.5	10A-GF-0.5	1.1	0.50	20	8mm
10A-SM-0.75	10A-SF-0.75	10A-GM-0.75	10A-GF-0.75	1.3	0.75	18	8mm
10A-SM-1.0	10A-SF-1.0	10A-GM-1.0	10A-GF-1.0	1.45	1.00	18	8mm
10A-SM-1.5	10A-SF-1.5	10A-GM-1.5	10A-GF-1.5	1.75	1.50	16	8mm
10A-SM-2.5	10A-SF-2.5	10A-GM-2.5	10A-GF-2.5	2.25	2.50	14	6mm

Tools

	
Crimping tool	Removal tool
Wire gauge : 0.5~4.0mm² (AWG 20-12)	For: 10A 10A Crimp contacts
Type : TL1-4.0	Type : RT-10A

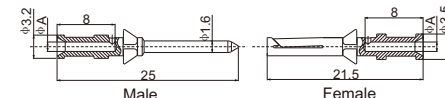
DDD-072 Ultra-high Density Inserts 250V 10A 72+⊕

Hoods/Housings: Matching 16B Hoods Housing, detail on P124-130

Inserts	Male	Female	Wire gauge		Drawing
			mm²	AWG	
	DDD-072-MC	DDD-072-FC	0.14-2.5	26-14	Distance for contact max.21mm  ontacts arrangement view for termination side  Panel cut out for use without Hoods/housings 

Accessories

When cold pressing connection is selected, additional stitches are needed, as shown in the attachment below:

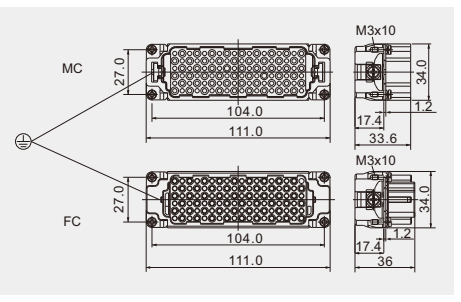
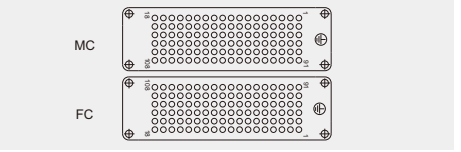
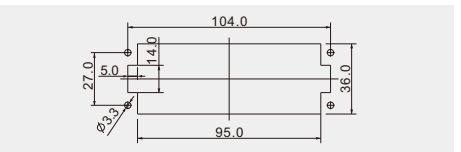
(10A) Crimp contacts							
Material: Copper alloy							
Contact resistance≤3mΩ							
Matching:DD,DDD,DM,DK,DQ inserts							
Surface: Gold/silver plated							
Terminal: Crimp connection							
Contacts,silver-plated		Contacts,gold plated		(φ A)	Wire gauge		Recommended stripping length
Male Contacts	Female Contacts	Male Contacts	Female Contacts		(mm²)	(AWG)	
10A-SM-0.37	10A-SF-0.37	10A-GM-0.37	10A-GF-0.37	0.9	0.14-0.37	26-22	8mm
10A-SM-0.5	10A-SF-0.5	10A-GM-0.5	10A-GF-0.5	1.1	0.50	20	8mm
10A-SM-0.75	10A-SF-0.75	10A-GM-0.75	10A-GF-0.75	1.3	0.75	18	8mm
10A-SM-1.0	10A-SF-1.0	10A-GM-1.0	10A-GF-1.0	1.45	1.00	18	8mm
10A-SM-1.5	10A-SF-1.5	10A-GM-1.5	10A-GF-1.5	1.75	1.50	16	8mm
10A-SM-2.5	10A-SF-2.5	10A-GM-2.5	10A-GF-2.5	2.25	2.50	14	6mm

Tools

	
Crimping tool	Removal tool
Wire gauge : 0.5~4.0mm² (AWG 20-12)	For: 10A 10A Crimp contacts
Type : TL1-4.0	Type : RT-10A

DDD-108 Ultra-high Density Inserts 250V 10A 108+ $\oplus$

Hoods/Housings: Matching **24B** Hoods Housing, detail on P131-137

Inserts	Male	Female	Wire gauge		Drawing
			mm ²	AWG	
	DDD-108-MC	DDD-108-FC	0.14-2.5	26-14	Distance for contact max.24mm  Contacts arrangement view for termination side  Panel cut out for use without Hoods/housings 

Accessories

When cold pressing connection is selected, additional stitches are needed, as shown in the attachment below:

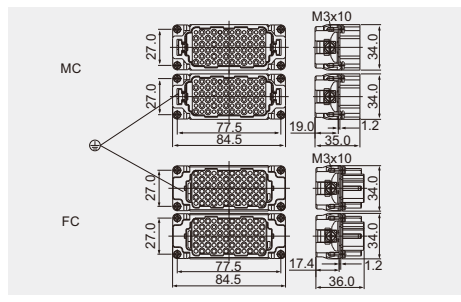
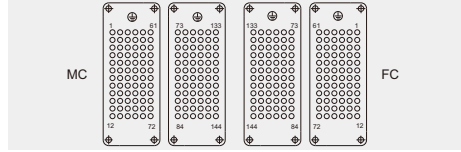
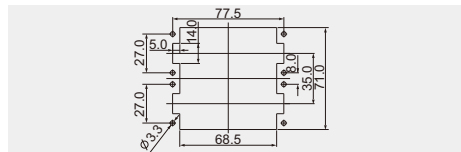
(10A) Crimp contacts							
Material: Copper alloy							
Contact resistance $\leq 3m\Omega$							
Matching: DD,DDD,DM,DK,DQ inserts							
Surface: Gold/silver plated							
Terminal: Crimp connection							
Contacts, silver-plated		Contacts, gold plated		ϕA	Wire gauge		Recommended stripping length
Male Contacts	Female Contacts	Male Contacts	Female Contacts		(mm ²)	(AWG)	
10A-SM-0.37	10A-SF-0.37	10A-GM-0.37	10A-GF-0.37	0.9	0.14-0.37	26-22	8mm
10A-SM-0.5	10A-SF-0.5	10A-GM-0.5	10A-GF-0.5	1.1	0.50	20	8mm
10A-SM-0.75	10A-SF-0.75	10A-GM-0.75	10A-GF-0.75	1.3	0.75	18	8mm
10A-SM-1.0	10A-SF-1.0	10A-GM-1.0	10A-GF-1.0	1.45	1.00	18	8mm
10A-SM-1.5	10A-SF-1.5	10A-GM-1.5	10A-GF-1.5	1.75	1.50	16	8mm
10A-SM-2.5	10A-SF-2.5	10A-GM-2.5	10A-GF-2.5	2.25	2.50	14	6mm

Tools

	
Crimping tool	Removal tool
Wire gauge : 0.5~4.0mm ² (AWG 20-12)	For: 10A 10A Crimp contacts
Type : TL1-4.0	Type : RT-10A

DDD-144 Ultra-high Density Inserts 250V 10A 144+ $\oplus$

Hoods/Housings: Matching **32B** Hoods Housing, detail on P138-139

Inserts	Male	Female	Wire gauge		Drawing
			mm ²	AWG	
	DDD-072-MC DDD-072-MC(73-144)	DDD-072-FC DDD-072-FC(73-144)	0.14-2.5	26-14	Distance for contact max.21mm  Contacts arrangement view for termination side  Panel cut out for use without Hoods/housings 

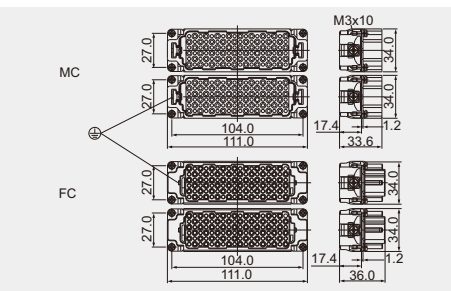
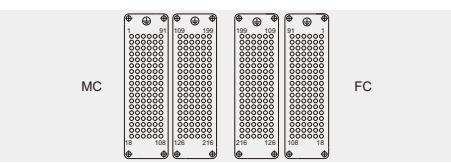
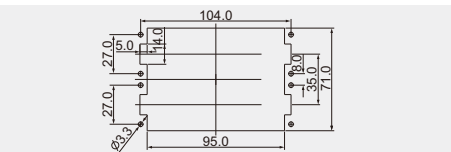
Accessories

When cold pressing connection is selected, additional stitches are needed, as shown in the attachment below:

(10A) Crimp contacts							
Material: Copper alloy							
Contact resistance $\leq 3m\Omega$							
Matching: DD,DDD,DM,DK,DQ inserts							
Surface: Gold/silver plated							
Terminal: Crimp connection							
Contacts, silver-plated		Contacts, gold plated		ϕA	Wire gauge		Recommended stripping length
Male Contacts	Female Contacts	Male Contacts	Female Contacts		(mm ²)	(AWG)	
10A-SM-0.37	10A-SF-0.37	10A-GM-0.37	10A-GF-0.37	0.9	0.14-0.37	26-22	8mm
10A-SM-0.5	10A-SF-0.5	10A-GM-0.5	10A-GF-0.5	1.1	0.50	20	8mm
10A-SM-0.75	10A-SF-0.75	10A-GM-0.75	10A-GF-0.75	1.3			

DDD-216 Ultra-high Density Inserts 250V 10A 216+ $\oplus$

Hoods/Housings: Matching 48B Hoods Housing, detail on P140

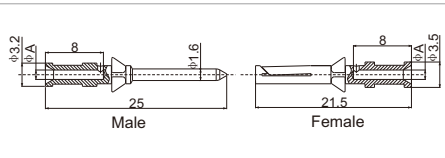
Inserts	Male	Female	Wire gauge		Drawing
			mm ²	AWG	
	DDD-108-MC	DDD-108-FC	0.14-2.5	26-14	Distance for contact max.21mm  Contacts arrangement view for termination side  Panel cut out for use without Hoods/housings 
	DDD-108-MC(109-216)	DDD-108-FC(109-216)			

Accessories

When cold pressing connection is selected, additional stitches are needed, as shown in the attachment below:

(10A) Crimp contacts

Material: Copper alloy
Contact resistance $\leq 3\text{m}\Omega$
Matching: DD,DDD,DM,DK,DQ inserts
Surface: Gold/silver plated
Terminal: Crimp connection



Contacts, silver-plated		Contacts, gold plated		ϕ (A)	Wire gauge		Recommended stripping length
Male Contacts	Female Contacts	Male Contacts	Female Contacts		(mm ²)	(AWG)	
10A-SM-0.37	10A-SF-0.37	10A-GM-0.37	10A-GF-0.37	0.9	0.14-0.37	26-22	8mm
10A-SM-0.5	10A-SF-0.5	10A-GM-0.5	10A-GF-0.5	1.1	0.50	20	8mm
10A-SM-0.75	10A-SF-0.75	10A-GM-0.75	10A-GF-0.75	1.3	0.75	18	8mm
10A-SM-1.0	10A-SF-1.0	10A-GM-1.0	10A-GF-1.0	1.45	1.00	18	8mm
10A-SM-1.5	10A-SF-1.5	10A-GM-1.5	10A-GF-1.5	1.75	1.50	16	8mm
10A-SM-2.5	10A-SF-2.5	10A-GM-2.5	10A-GF-2.5	2.25	2.50	14	6mm

Tools



Crimping tool

Wire gauge : 0.5~4.0mm² (AWG 20-12)
Type : TL1-4.0



Removal tool

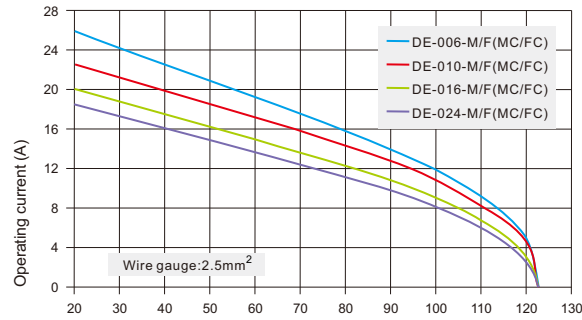
For: 10A 10A Crimp contacts
Type : RT-10A

DE Series

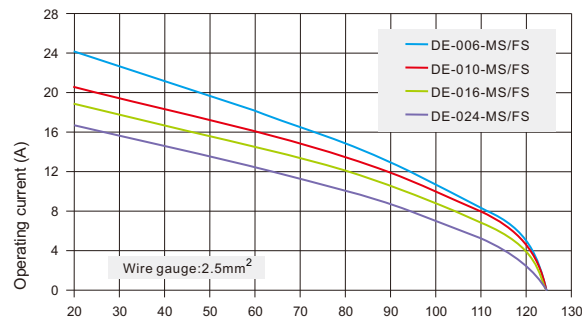


Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Inserts	
Electrical data acc.to EN 61 984	
Number of contacts	6,10,16,24,32(2X16),48(2X24)+PE
• Rated current	16A
• Rated voltage	500V
• Rated impulse voltage	6KV
• Pollution degree	3
• Pollution degree 2 also	16A 400/690V 6KV 2
Rated voltage acc.to UL CSA	600V
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Limiting temperatures	-40 °C ~+125 °C
Flammability acc.to UL94	V0
Mechanical working life-mating cycles	≥ 500
Contacts	
Material	Copper alloy
Surface	Hard-gold plated Hard-silver plated
Contact resistance	$\leq 1\text{m}\Omega$
Screw terminal	
• Wire gauge	0.14-2.5mm ²
• AWG	26-14
• Tightening torque	0.5Nm
• Stripping length	7mm
Crimp terminal	
• Wire gauge	0.14-4mm ²
• AWG	26-12
• Stripping length	7.5mm
Cage-clamp	
• Wire gauge	0.14-2.5mm ²
• AWG	26-14
• Stripping length	7-9mm



Ambient temperature (°C)



Ambient temperature (°C)

Current carrying capacity

The current carrying is limited by maximum temperature of materials for Inserts and contacts including terminals.

Measuring and testing techniques according to DIN EN 60512-5.

DE-006 Standard Inserts 500V 16A 6+ ⊕

Hoods/Housings: Matching 6B Hoods Housing, detail on P115-117

Inserts	Male	Female	Wire gauge		Drawing
			mm ²	AWG	
Screw terminal	DE-006-M	DE-006-F	0.75-2.5	18-14	Distance for contact max.21mm
Crimp terminal	DE-006-MC	DE-006-FC	0.14-4.0	26-12	
Cage-clamp	DE-006-MS	DE-006-FS	0.14-2.5	26-14	Contacts arrangement view for termination side
Push-in	DE-006-MP	DE-006-FP	0.5-2.5	20-14	Panel cut out for use without Hoods/housings

Accessories

When cold pressing connection is selected, additional stitches are needed, as shown in the attachment below:

(16A) Crimp contacts							
Material: Copper alloy							
Contact resistance ≤ 1mΩ							
Matching: DA, DE, DEE, DM, DK inserts							
Surface: Gold/silver plated							
Terminal: Crimp connection							

DE-016 Standard Inserts 500V 16A 16+⊕

Hoods/Housings: Matching **16B** Hoods Housing, detail on P124-130

Inserts	Male	Female	Wire gauge		Drawing
			mm ²	AWG	
Screw terminal	DE-016-M	DE-016-F	0.75-2.5	18-14	Distance for contact max.21mm Contacts arrangement view for termination side Panel cut out for use without Hoods/housings
Crimp terminal	DE-016-MC	DE-016-FC	0.14-4.0	26-12	
Cage-clamp	DE-016-MS	DE-016-FS	0.14-2.5	26-14	
Push-in	DE-016-MP	DE-016-FP	0.5-2.5	20-14	

Accessories

When cold pressing connection is selected, additional stitches are needed, as shown in the attachment below:

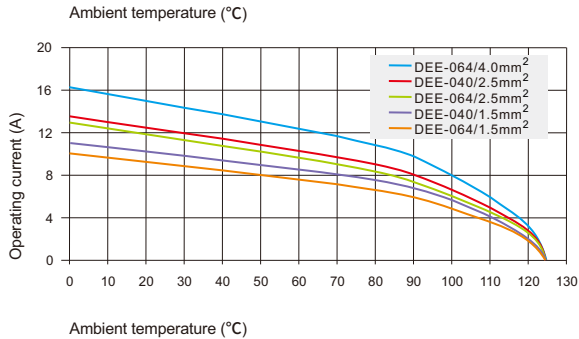
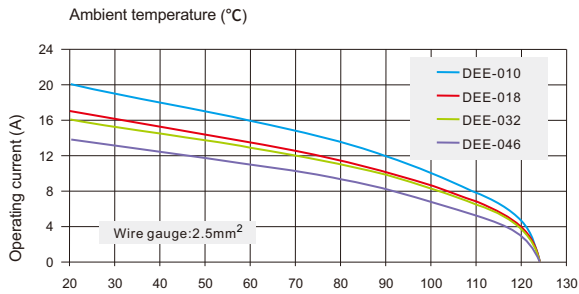
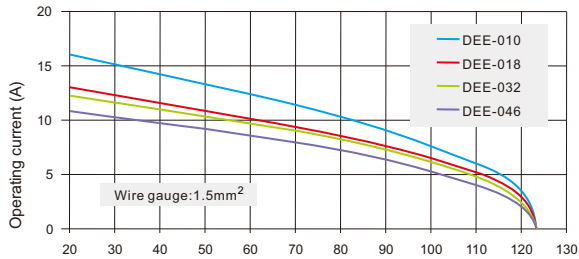
(16A) Crimp contacts							
Material: Copper alloy							
Contact resistance ≤ 1mΩ							
Matching: DA, DE, DEE, DM, DK inserts							
Surface: Gold/silver plated							
Terminal: Crimp connection							

DEE ▪ Series



Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Inserts	
Electrical data acc.to EN 61 984	
Number of contacts	10,18,32,46,64(2X32),92(2X46)+PE
• Rated current	16A
• Rated voltage	500V
• Rated impulse voltage	6KV
• Pollution degree	3
• Pollution degree 2 also	16A 830V 8KV 2
Rated voltage acc.to UL CSA	600V
Insulation resistance	≥ 10 ¹⁰ Ω
Material	Polycarbonate
Limiting temperatures	-40 °C ~+125 °C
Flammability acc.to UL94	V0
Mechanical working life-mating cycles	≥ 500
Contacts	
Material	Copper alloy
Surface	Hard-gold plated Hard-silver plated
Contact resistance	≤ 1m Ω
Crimp terminal	
• Wire gauge	0.14-4mm ²
• AWG	26-12
• Stripping length	7.5mm



Current carrying capacity

The current carrying is limited by maximum temperature of materials for Inserts and contacts including terminals.

Measuring and testing techniques according to DIN EN 60512-5.

High-density Inserts 500V 16A 10+ ⊕

Hoods/Housings: Matching 6B Hoods Housing, detail on P115-117

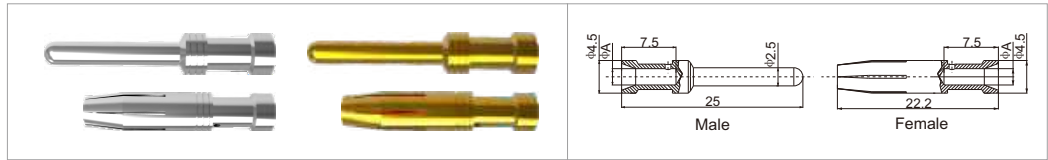
Inserts	Male	Female	Wire gauge		Drawing
			mm ²	AWG	
Crimp terminal 	DEE-010-MC	DEE-010-FC	0.14-4.0	26-12	Distance for contact max.21mm Contacts arrangement view for termination side Panel cut out for use without Hoods/housings

Accessories

When cold pressing connection is selected, additional stitches are needed, as shown in the attachment below:

(16A) Crimp contacts

Material: Copper alloy
Contact resistance≤1mΩ
Matching:DA,DE,DEE,DM,DK inserts
Surface: Gold/silver plated
Terminal: Crimp connection



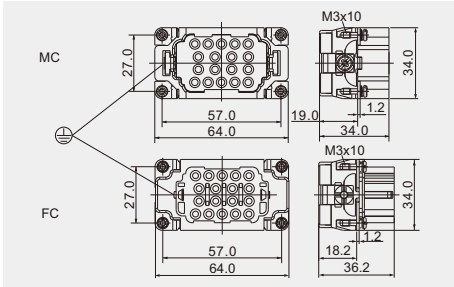
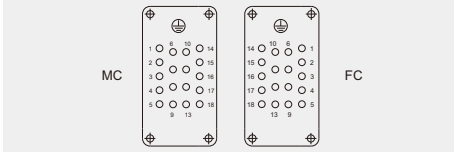
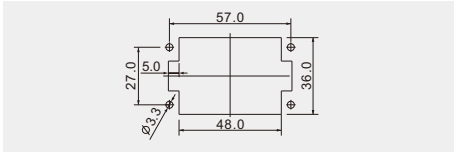
Contacts,silver-plated		Contacts,gold plated		⌀ A)	Wire gauge		Recommended stripping length
Male Contacts	Female Contacts	Male Contacts	Female Contacts		(mm ²)	(AWG)	
16A-SM-0.37	16A-SF-0.37	16A-GM-0.37	16A-GF-0.37	0.9	0.14-0.37	26-22	7.5mm
16A-SM-0.5	16A-SF-0.5	16A-GM-0.5	16A-GF-0.5	1.1	0.50	20	7.5mm
16A-SM-0.75	16A-SF-0.75	16A-GM-0.75	16A-GF-0.75	1.3	0.75	18	7.5mm
16A-SM-1.0	16A-SF-1.0	16A-GM-1.0	16A-GF-1.0	1.45	1.00	18	7.5mm
16A-SM-1.5	16A-SF-1.5	16A-GM-1.5	16A-GF-1.5	1.75	1.50	16	7.5mm
16A-SM-2.5	16A-SF-2.5	16A-GM-2.5	16A-GF-2.5	2.25	2.50	14	7.5mm
16A-SM-4.0	16A-SF-4.0	16A-GM-4.0	16A-GF-4.0	2.85	4.00	12	7.5mm

Tools

Crimping tool	Removal tool
Wire gauge : 0.5~4.0mm ² (AWG 20-12)	For: 16A冷压针 16A Crimp contacts
Type : TL1-4.0	Type : RT-16A

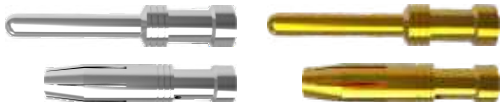
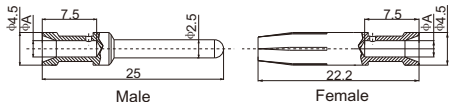
High-density Inserts 500V 16A 18+ ⊕

Hoods/Housings: Matching 10B Hoods Housing, detail on P118-123

Inserts	Male	Female	Wire gauge		Drawing
			mm²	AWG	
Crimp terminal 	DEE-018-MC	DEE-018-FC	0.14-4.0	26-12	Distance for contact max.21mm 
					Contacts arrangement view for termination side 
					Panel cut out for use without Hoods/housings 

Accessories

When cold pressing connection is selected, additional stitches are needed, as shown in the attachment below:

(16A) Crimp contacts Material: Copper alloy Contact resistance≤1mΩ Matching:DA,DE,DEE,DM,DK inserts Surface: Gold/silver plated Terminal: Crimp connection			
		Male	Female

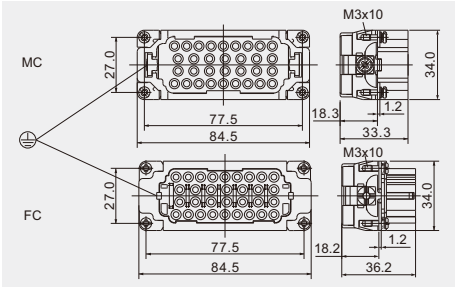
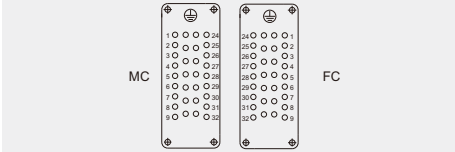
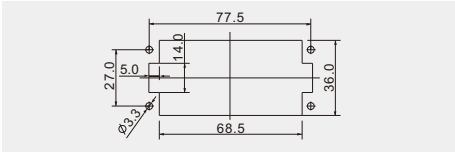
Contacts,silver-plated		Contacts,gold plated		(φ A)	Wire gauge		Recommended stripping length
Male Contacts	Female Contacts	Male Contacts	Female Contacts		(mm²)	(AWG)	
16A-SM-0.37	16A-SF-0.37	16A-GM-0.37	16A-GF-0.37	0.9	0.14-0.37	26-22	7.5mm
16A-SM-0.5	16A-SF-0.5	16A-GM-0.5	16A-GF-0.5	1.1	0.50	20	7.5mm
16A-SM-0.75	16A-SF-0.75	16A-GM-0.75	16A-GF-0.75	1.3	0.75	18	7.5mm
16A-SM-1.0	16A-SF-1.0	16A-GM-1.0	16A-GF-1.0	1.45	1.00	18	7.5mm
16A-SM-1.5	16A-SF-1.5	16A-GM-1.5	16A-GF-1.5	1.75	1.50	16	7.5mm
16A-SM-2.5	16A-SF-2.5	16A-GM-2.5	16A-GF-2.5	2.25	2.50	14	7.5mm
16A-SM-4.0	16A-SF-4.0	16A-GM-4.0	16A-GF-4.0	2.85	4.00	12	7.5mm

Tools

	
Crimping tool	Removal tool
Wire gauge : 0.5~4.0mm² (AWG 20-12)	For: 16A 16A Crimp contacts
Type : TL1-4.0	Type : RT-16A

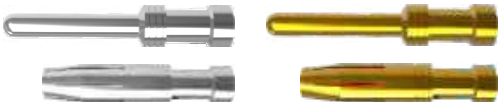
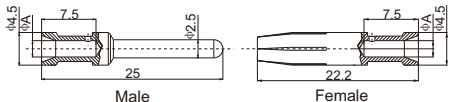
High-density Inserts 500V 16A 32+ ⊕

Hoods/Housings: Matching 16B Hoods Housing, detail on P124-130

Inserts	Male	Female	Wire gauge		Drawing
			mm²	AWG	
Crimp terminal 	DEE-032-MC	DEE-032-FC	0.14-4.0	26-12	Distance for contact max.21mm 
					Contacts arrangement view for termination side 
					Panel cut out for use without Hoods/housings 

Accessories

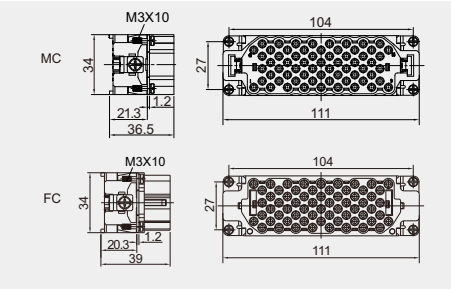
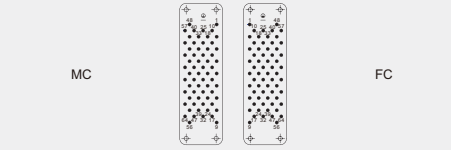
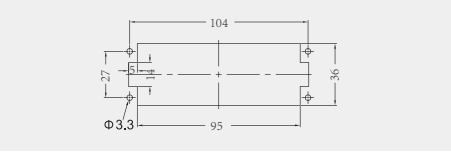
When cold pressing connection is selected, additional stitches are needed, as shown in the attachment below:

(16A) Crimp contacts Material: Copper alloy Contact resistance≤1mΩ Matching:DA,DE,DEE,DM,DK inserts Surface: Gold/silver plated Terminal: Crimp connection			
		Male	Female

Contacts,silver-plated		Contacts,gold plated		(φ A)	Wire gauge		Recommended stripping length
Male Contacts	Female Contacts	Male Contacts	Female Contacts		(mm²)	(AWG)	
16A-SM-0.37	16A-SF-0.37	16A-GM-0.37	16A-GF-0.37	0.9	0.14-0.37	26-22	7.5mm
16A-SM-0.5	16A-SF-0.5	16A-GM-0.5	16A-GF-0.5	1.1	0.50	20	7.5mm
16A-SM-0.75	16A-SF-0.75	16A-GM-0.75	16A-GF-0.75	1.3	0.75	18	7.5mm
16A-SM-1.0	16A-SF-1.0	16A-GM-1.0	16A-GF-1.0	1.45	1.00	18	7.5mm
16A-SM-1.5	16A-SF-1.5	16A-GM-1.5	16A-GF-1.5	1.75	1.50	16	7.5mm
16A-SM-2.5	16A-SF-2.5	16A-GM-2.5	16A-GF-2.5	2.25	2.50	14	7.5mm
16A-SM-4.0	16A-SF-4.0	16A-GM-4.0	16A-GF-4.0	2.8			

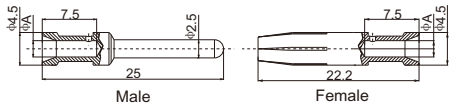
High-density Inserts 500V 16A 64+

Hoods/Housings: Matching 24B Hoods Housing, detail on P131-137

Inserts	Male	Female	Wire gauge		Drawing
			mm²	AWG	
Crimp terminal 	DEEE-064-MC	DEEE-064-FC	0.14-4.0	26-12	Distance for contact max.21mm  Contacts arrangement view for termination side  Panel cut out for use without Hoods/housings 

Accessories

When cold pressing connection is selected, additional stitches are needed, as shown in the attachment below:

(16A) Crimp contacts	
Material: Copper alloy	
Contact resistance ≤ 1mΩ	
Matching: DA, DE, DEE, DM, DK inserts	
Surface: Gold/silver plated	
Terminal: Crimp connection	
 	

Contacts, silver-plated		Contacts, gold plated		(φ A)	Wire gauge		Recommended stripping length
Male Contacts	Female Contacts	Male Contacts	Female Contacts		(mm²)	(AWG)	
16A-SM-0.37	16A-SF-0.37	16A-GM-0.37	16A-GF-0.37	0.9	0.14-0.37	26-22	7.5mm
16A-SM-0.5	16A-SF-0.5	16A-GM-0.5	16A-GF-0.5	1.1	0.50	20	7.5mm
16A-SM-0.75	16A-SF-0.75	16A-GM-0.75	16A-GF-0.75	1.3	0.75	18	7.5mm
16A-SM-1.0	16A-SF-1.0	16A-GM-1.0	16A-GF-1.0	1.45	1.00	18	7.5mm
16A-SM-1.5	16A-SF-1.5	16A-GM-1.5	16A-GF-1.5	1.75	1.50	16	7.5mm
16A-SM-2.5	16A-SF-2.5	16A-GM-2.5	16A-GF-2.5	2.25	2.50	14	7.5mm
16A-SM-4.0	16A-SF-4.0	16A-GM-4.0	16A-GF-4.0	2.85	4.00	12	7.5mm

Tools

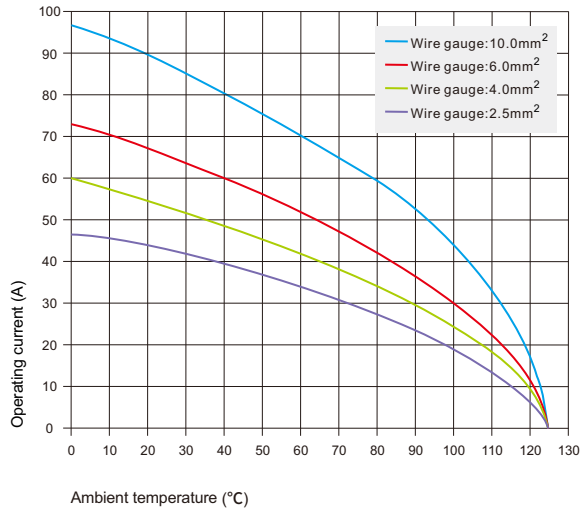
 Crimping tool	 Removal tool
Wire gauge : 0.5~4.0mm² (AWG 20-12)	For: 16A 16A Crimp contacts
Type : TL1-4.0	Type : RT-16A

DQ • Series



Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Inserts	
Electrical data acc.to EN 61 984	
Number of contacts	2+PE
• Rated current	40A
• Rated voltage	830V
• Rated impulse voltage	6KV
• Pollution degree	3
Rated voltage acc.to UL CSA	600V
Insulation resistance	≥ 10 ¹⁰ Ω
Material	Polycarbonate
Limiting temperatures	-40 °C ~+125 °C
Flammability acc.to UL94	V0
Mechanical working life-mating cycles	≥ 500
Contacts	
Material	Copper alloy
Surface	Hard-gold plated Hard-silver plated
Contact resistance	≤ 1m Ω
Axial screw terminal	
• mm²	2.5-10mm²
• AWG	14-8
• Hexagonal Driver	SW2
• Stripping length	
• mm²	2.5 4 6 10
• mm²	5*1 5*1 8*1 11*1
• Tightening torque	
• mm²	2.5 4 6 10
• Nm	1.5 1.5 2 2



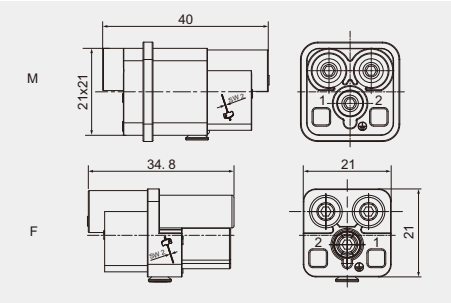
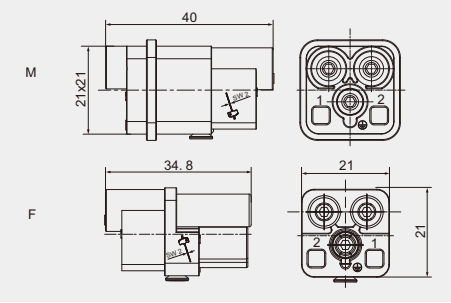
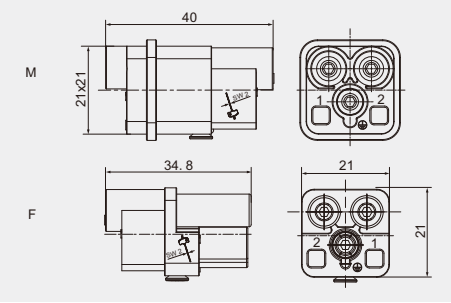
Current carrying capacity

The current carrying is limited by maximum temperature of materials for Inserts and contacts including terminals.

Measuring and testing techniques according to DIN EN 60512-5.

Compact Series 830V 40A 2+⏚

Hoods/Housings: Matching 3A Hoods Housing, detail on P108-110

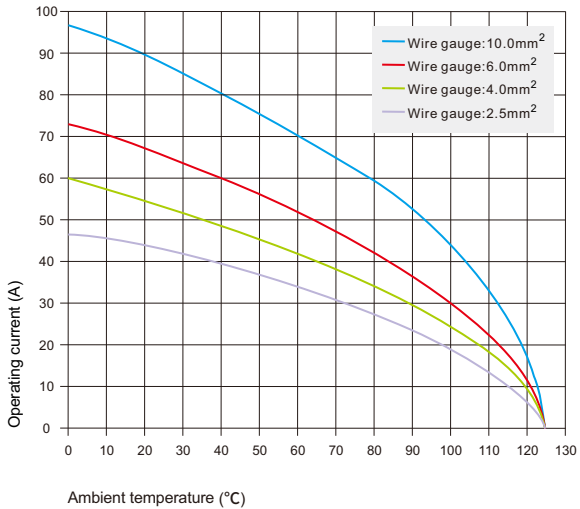
Inserts	Male	Female	Wire gauge		Drawing
			mm²	AWG	
Axial screw terminal  	DQ-002-M (2.5-6mm²)	DQ-002-F (2.5-6mm²)	2.5-6	14-10	Dimension and hole site  Dimension and hole site 
	DQ-002-M (4-10mm²)	DQ-002-F (4-10mm²)	4-10	12-8	Dimension and hole site 

DQ - Series



Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Inserts	
Electrical data acc.to EN 61 984	
Number of contacts	2+PE
• Rated current	40A
• Rated voltage	400V
• Rated impulse voltage	6KV
• Pollution degree	3
Rated voltage acc.to UL CSA	600V
Insulation resistance	≥ 10 ¹⁰ Ω
Material	Polycarbonate
Limiting temperatures	-40 °C ~+125 °C
Flammability acc.to UL94	V0
Mechanical working life-mating cycles	≥ 500
Contacts	
Material	Copper alloy
Surface	Hard-gold plated Hard-silver plated
Contact resistance	≤ 1m Ω
Axial screw terminal	
• mm²	2.5-10mm²
• AWG	14-8
• Hexagonal Driver	SW2
• Stripping length	
• mm²	2.5 4 6 10
• mm²	5*1 5*1 8*1 11*1
• Tightening torque	
• mm²	2.5 4 6 10
• Nm	1.5 1.5 2 2



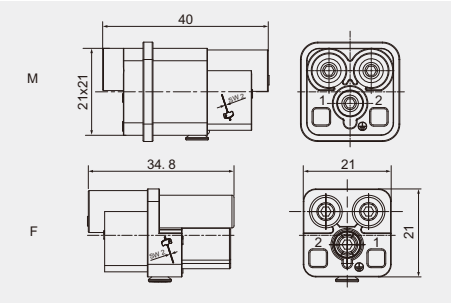
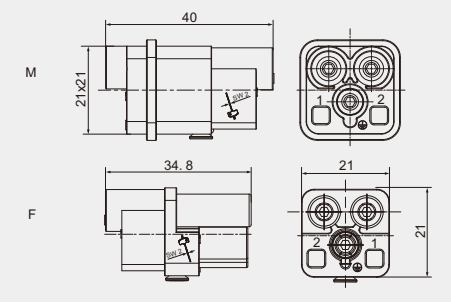
Current carrying capacity

The current carrying is limited by maximum temperature of materials for Inserts and contacts including terminals.

Measuring and testing techniques according to DIN EN 60512-5.

Compact Series 400V 40A 2+⏚

Hoods/Housings: Matching 3A Hoods Housing, detail on P108-110

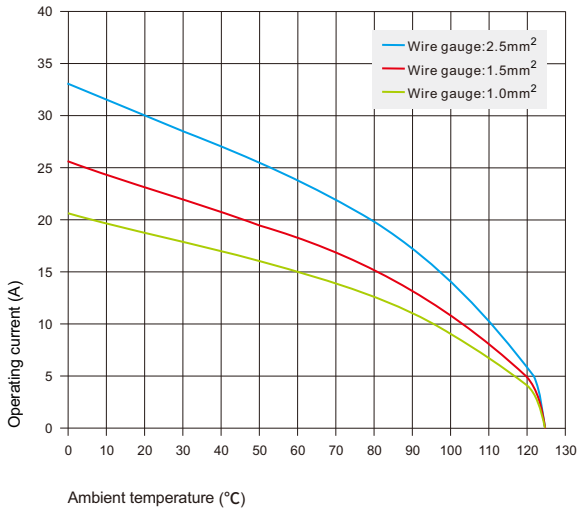
Inserts	Male	Female	Wire gauge		Drawing
			mm²	AWG	
Axial screw terminal  	DQV-002-M (2.5-6mm²)	DQV-002-F (2.5-6mm²)	2.5-6	14-10	Dimension and hole site  Dimension and hole site 
	DQV-002-M (4-10mm²)	DQV-002-F (4-10mm²)	4-10	12-8	

DQ - Series



Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Inserts	
Electrical data acc.to EN 61 984	
Number of contacts	4
• Rated current	40A
• Rated voltage	830V
• Rated impulse voltage	6KV
• Pollution degree	3
• Pollution degree 2 also	40A 830/500V 6KV 2
Rated voltage acc.to UL CSA	600V
Insulation resistance	≥ 10 ¹⁰ Ω
Material	Polycarbonate
Limiting temperatures	-40 °C ~+125 °C
Flammability acc.to UL94	V0
Mechanical working life-mating cycles	≥ 500
Contacts	
Material	Copper alloy
Surface	Hard-gold plated Hard-silver plated
Contact resistance	≤ 1m Ω
Crimp terminal	
• Wire gauge	1.5-10mm²
• AWG	16-8



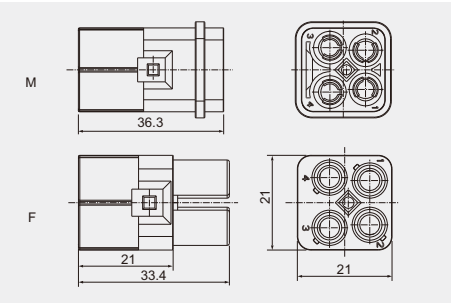
Current carrying capacity

The current carrying is limited by maximum temperature of materials for Inserts and contacts including terminals.

Measuring and testing techniques according to DIN EN 60512-5.

Compact Series 830V 40A 4

Hoods/Housings: Matching 3A Hoods Housing, detail on P108-110

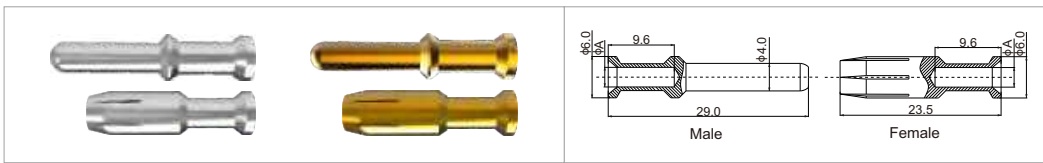
Inserts	Male	Female	Wire gauge		Drawing
			mm²	AWG	
Crimp terminal 	DQ-004-MC	DQ-004-FC	1.5-10	16-8	Dimension and hole site 

Accessories

When cold pressing connection is selected, additional stitches are needed, as shown in the attachment below:

(40A) Crimp contacts

Material: Copper alloy
Contact resistance≤0.3mΩ
Matching: DM,DK inserts
Surface: Gold/silver plated
Terminal: Crimp connection



Contacts,silver-plated		Contacts,gold plated		(φ A)	Wire gauge		Recommended stripping length
Male Contacts	Female Contacts	Male Contacts	Female Contacts		(mm²)	(AWG)	
40A-SM-1.5	40A-SF-1.5	40A-GM-1.5	40A-GF-1.5	1.75	1.50	16	9.0mm
40A-SM-2.5	40A-SF-2.5	40A-GM-2.5	40A-GF-2.5	2.25	2.50	14	9.0mm
40A-SM-4.0	40A-SF-4.0	40A-GM-4.0	40A-GF-4.0	2.85	4.0	12	9.5mm
40A-SM-6.0	40A-SF-6.0	40A-GM-6.0	40A-GF-6.0	3.50	6.0	10	9.5mm

Tools



Crimping tool

Wire gauge : 0.5~4.0mm² (AWG 20-12)
Type : TL1-4.0



Removal tool

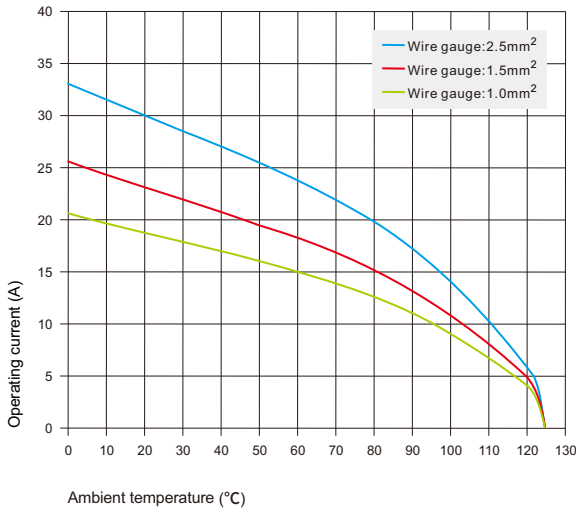
For: 40A Crimp contacts
Type : RT-40A

DQ - Series



Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Inserts	
Electrical data acc.to EN 61 984	
Number of contacts	5+PE
• Rated current	16A
• Rated voltage conductor-ground	230V
• Rated voltage conductor-conductor	400V
• Rated impulse voltage	4KV
• Pollution degree	3
• Pollution degree 2 also	16A 320/500V 4KV 2
Rated voltage acc.to UL CSA	600V
Insulation resistance	≥ 10 ¹⁰ Ω
Material	Polycarbonate
Limiting temperatures	-40 °C ~+125 °C
Flammability acc.to UL94	V0
Mechanical working life-mating cycles	≥ 500
Contacts	
Material	Copper alloy
Surface	Hard-gold plated Hard-silver plated
Contact resistance	≤ 1m Ω
Crimp terminal	
• Wire gauge	0.14-2.5mm²
• AWG	26-14
PE screw terminal	
• Wire gauge	0.5-2.5mm²
• AWG	20-14



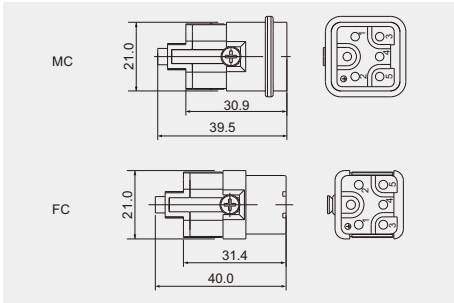
Current carrying capacity

The current carrying is limited by maximum temperature of materials for Inserts and contacts including terminals.

Measuring and testing techniques according to DIN EN 60512-5.

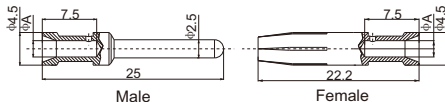
Compact Series 230V/400V 16A 5+⊕

Hoods/Housings: Matching 3A Hoods Housing, detail on P108-110

Inserts	Male	Female	Wire gauge		Drawing
			mm²	AWG	
Crimp terminal 	DQ-005-MC	DQ-005-FC	0.14-2.5	26-14	Dimension and hole site 

Accessories

When cold pressing connection is selected, additional stitches are needed, as shown in the attachment below:

(16A) Crimp contacts							
Material: Copper alloy							
Contact resistance≤1mΩ							
Matching:DA,DE,DEE,DM,DK inserts							
Surface: Gold/silver plated							
Terminal: Crimp connection							
Contacts,silver-plated		Contacts,gold plated		(φ A)	Wire gauge		Recommended stripping length
Male Contacts	Female Contacts	Male Contacts	Female Contacts		(mm²)	(AWG)	
16A-SM-0.37	16A-SF-0.37	16A-GM-0.37	16A-GF-0.37	0.9	0.14-0.37	26-22	7.5mm
16A-SM-0.5	16A-SF-0.5	16A-GM-0.5	16A-GF-0.5	1.1	0.50	20	7.5mm
16A-SM-0.75	16A-SF-0.75	16A-GM-0.75	16A-GF-0.75	1.3	0.75	18	7.5mm
16A-SM-1.0	16A-SF-1.0	16A-GM-1.0	16A-GF-1.0	1.45	1.00	18	7.5mm
16A-SM-1.5	16A-SF-1.5	16A-GM-1.5	16A-GF-1.5	1.75	1.50	16	7.5mm
16A-SM-2.5	16A-SF-2.5	16A-GM-2.5	16A-GF-2.5	2.25	2.50	14	7.5mm
16A-SM-4.0	16A-SF-4.0	16A-GM-4.0	16A-GF-4.0	2.85	4.00	12	7.5mm

Tools

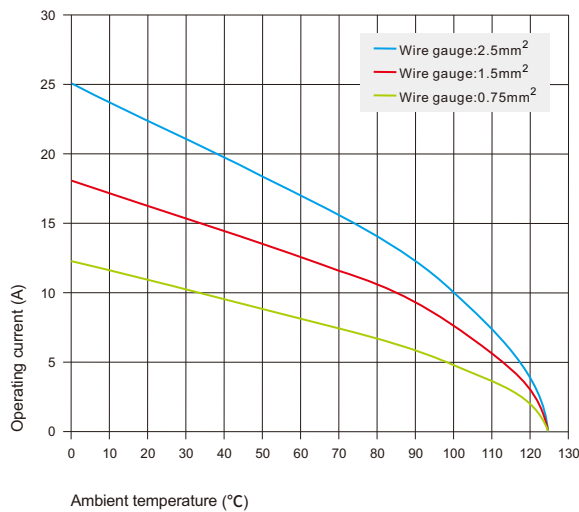
	
Crimping tool	Removal tool
Wire gauge : 0.5~4.0mm² (AWG 20-12)	For: 16A 冷压针 16A Crimp contacts
Type : TL1-4.0	Type : RT-16A

DQ - Series



Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Inserts	
Electrical data acc.to EN 61 984	
Number of contacts	7+PE
• Rated current	10A
• Rated voltage	400V
• Rated impulse voltage	6KV
• Pollution degree	3
• Pollution degree 2 also	10A 400/690V 6KV 2
Rated voltage acc.to UL CSA	600V
Insulation resistance	≥ 10 ¹⁰ Ω
Material	Polycarbonate
Limiting temperatures	-40 °C ~+125 °C
Flammability acc.to UL94	V0
Mechanical working life-mating cycles	≥ 500
Contacts	
Material	Copper alloy
Surface	Hard-gold plated Hard-silver plated
Contact resistance	≤ 3m Ω
Crimp terminal	
• Wire gauge	0.14-2.5mm²
• AWG	26-14
PE screw terminal	
• Wire gauge	0.5-2.5mm²
• AWG	20-14



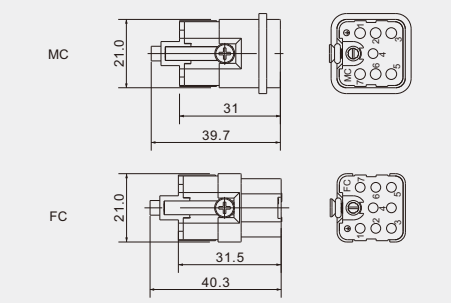
Current carrying capacity

The current carrying is limited by maximum temperature of materials for Inserts and contacts including terminals.

Measuring and testing techniques according to DIN EN 60512-5.

Compact Series 400V 10A 7+ ⊥

Hoods/Housings: Matching 3A Hoods Housing, detail on P108-110

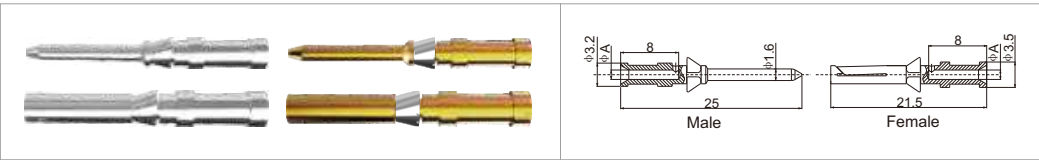
Inserts	Male	Female	Wire gauge		Drawing
			mm²	AWG	
Crimp terminal 	DQ-007-MC	DQ-007-FC	0.14-2.5	26-14	Dimension and hole site 

Accessories

When cold pressing connection is selected, additional stitches are needed, as shown in the attachment below:

(10A) Crimp contacts

Material: Copper alloy
Contact resistance $\leq 3\text{m}\Omega$
Matching: DD,DDD,DM,DK,DQ inserts
Surface: Gold/silver plated
Terminal: Crimp connection



Contacts, silver-plated		Contacts, gold plated		(ϕA)	Wire gauge		Recommended stripping length
Male Contacts	Female Contacts	Male Contacts	Female Contacts		(mm²)	(AWG)	
10A-SM-0.37	10A-SF-0.37	10A-GM-0.37	10A-GF-0.37	0.9	0.14-0.37	26-22	8mm
10A-SM-0.5	10A-SF-0.5	10A-GM-0.5	10A-GF-0.5	1.1	0.50	20	8mm
10A-SM-0.75	10A-SF-0.75	10A-GM-0.75	10A-GF-0.75	1.3	0.75	18	8mm
10A-SM-1.0	10A-SF-1.0	10A-GM-1.0	10A-GF-1.0	1.45	1.00	18	8mm
10A-SM-1.5	10A-SF-1.5	10A-GM-1.5	10A-GF-1.5	1.75	1.50	16	8mm
10A-SM-2.5	10A-SF-2.5	10A-GM-2.5	10A-GF-2.5	2.25	2.50	14	6mm

Tools

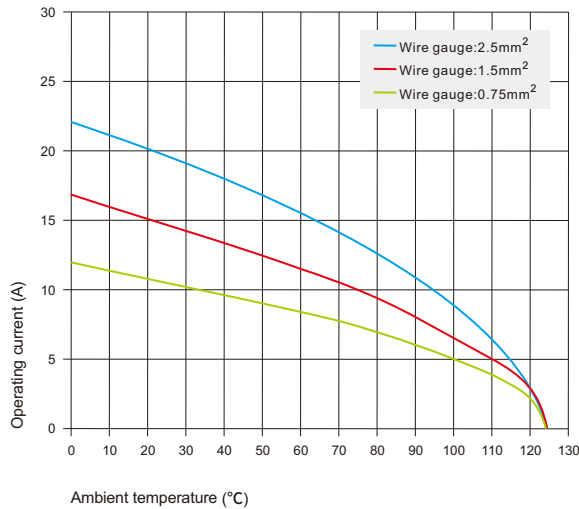
		
Crimping tool	Removal tool	Coding pin
Wire gauge : 0.5~4.0mm² (AWG 20-12)	For: 10A 10A Crimp contacts	Type : DBM-Q7-F
Type : TL1-4.0	Type : RT-10A	Type : DBM-Q7-M

DQ - Series



Technical characteristics

Specifications	DIN EN 60 664 DIN EN 61 984
Inserts	
Electrical data acc.to EN 61 984	
Number of contacts	12+PE
• Rated current	10A
• Rated voltage	400V
• Rated impulse voltage	6KV
• Pollution degree	3
• Pollution degree 2 also	10A 400/690V 6KV 2
Rated voltage acc.to UL CSA	600V
Insulation resistance	$\geq 10^{10} \Omega$
Material	Polycarbonate
Limiting temperatures	-40 °C ~+125 °C
Flammability acc.to UL94	V0
Mechanical working life-mating cycles	≥ 500
Contacts	
Material	Copper alloy
Surface	Hard-gold plated Hard-silver plated
Contact resistance	$\leq 3\text{m}\Omega$
Crimp terminal	
• Wire gauge	0.14-2.5mm²
• AWG	26-14
PE screw terminal	
• Wire gauge	0.5-2.5mm²
• AWG	20-14



Current carrying capacity

The current carrying is limited by maximum temperature of materials for Inserts and contacts including terminals.

Measuring and testing techniques according to DIN EN 60512-5.

