

MEET[®]CON[®]
heavy duty connectors

HEAVY DUTY CONNECTORS INSERTS



We are pleased to announce the launch of our new, one of the most detailed product range based websites about heavy duty connectors.

www.metecon.com.tr

www.metecon.com.tr
is online



20 years www.mete-enerji.com.tr



Product Search Option

According To;

Detailed Technical Specifications

Search Filters:

- Number of Poles:
- Gender:
- Voltage:
- Arrangement:
- Connection Type:
- Related Hood / Housing:

Search Results Table:

Photo	Part Number	Number of Poles
	29007	2P+E
	29008	2P+E
	29005	2P+E Socket Entry
	29004	2P+E Socket Entry
	29009	2P+E

2P+E - A Series - Male Insert
Product Code: 29007

METECON Insert - A Series, 2P+E, Screw Termination, Male, Side Entry, 10 A, 250 V, 4 kv, Size 3A, contacts 3P, Polycarbonate (PC), Connector Material: Brass (Silver Plated), Grey - RAL 7044 cable Cross Section: 1.0 - 2.5 mm²

Certificates:

-
-
-

Applications:

-
-
-
-
-

Buttons: DATA SHEET, 3D DRAWING, CERTIFICATE

Technical Information

Detailed Product Page

- Certificates
- Application Areas
- Technical Datasheet
- Technical Specifications

Listing Option For Compatible Products.

- Compatible products for Inserts

- Compatible products for Hoods & Housings.

Commercial Data:

Packaging Size	200
Net weight per unit (gr)	10,5
Country of origin	Turkey
European customs tariff number	8536.60.00.00.00
FANIR Code	8536.60.00.00.00

Compatible Products!

29017 Hood For Male Insert, 3A Size PD 11 T1-SL	290170405 Hood For Male Insert, 3A Size PD 12 N T1-SL	290172205 Hood For Male Insert, 3A Size M 20 T1-SL	290173105 Hood For Male Insert, 3A Size N 3/8 T1-SL

INSERTS	A Series	E Series	HSB Series	K Series	EE Series	DD Series
Number of Contacts	2,3,4,1,16, 32P+E	6,10,16,24,32, 48P+E	6, 12P+E	4/0, 4/2, 4/8	10P+E	40, 64P+E
Current	10A	16A	35A	80A, 80/16A	16A	10A
Voltage	220-240 V	400 V	400/690 V		400 V	250 V
Operating Voltage	4 kV	6 kV			4 kV	6 kV
Pollution Degree	3			3	3	3
Insulation Resistance	$\geq 10^{10} \Omega$					
Material	PC %10 GF		PBT %30 GF	PC		
Temperature Range	$-40^{\circ}\text{C} / +120^{\circ}\text{C}$					
Flammability	V0					
Mechanical Working Life	≥ 500					

CONTACTS

Material	Brass
Silver Thickness	3 μm Ag
Contact Resistance	$\leq 1 \text{ m}\Omega$

SCREW CONNECTION

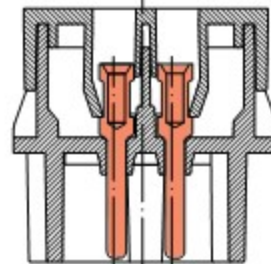
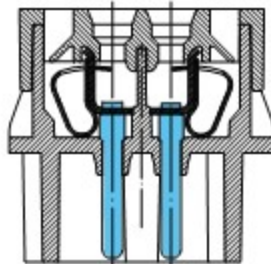
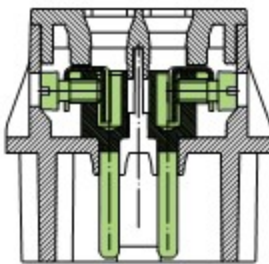
Cable Section	1.0 - 2.5 mm ²	6 mm ²	1.5 - 16 mm ²			
Awg	18 - 14	10	1,5	2,5	4	6
Tightening Torque	0.5 Nm	1.2 Nm	1,2	2	3	3
Stripping Length	7 mm					

SPRING CONNECTION

Cable Section	0.14 - 2.5 mm ²	
Awg	26 - 14	
Stripping Length	9... 11	

CRIMP CONNECTION

Cable Section	0.14 - 4.0 mm ²		0.14 - 4.0 mm ²	0.14 - 425 mm ²
Awg	20 - 12		20 - 12	20 - 14
Stripping Length	7.5		7.5	7.5



METAL HOODS - HOUSINGS

Material	Aluminum
Surface	Powder - Coated
Gaskets	NBR
Temperature range	$-40^{\circ}\text{C} / +125^{\circ}\text{C}$
Protection Degree (Acc. to DIN EN 60529 for coupled connectors)	IP 65

PLASTIC HOODS - HOUSINGS

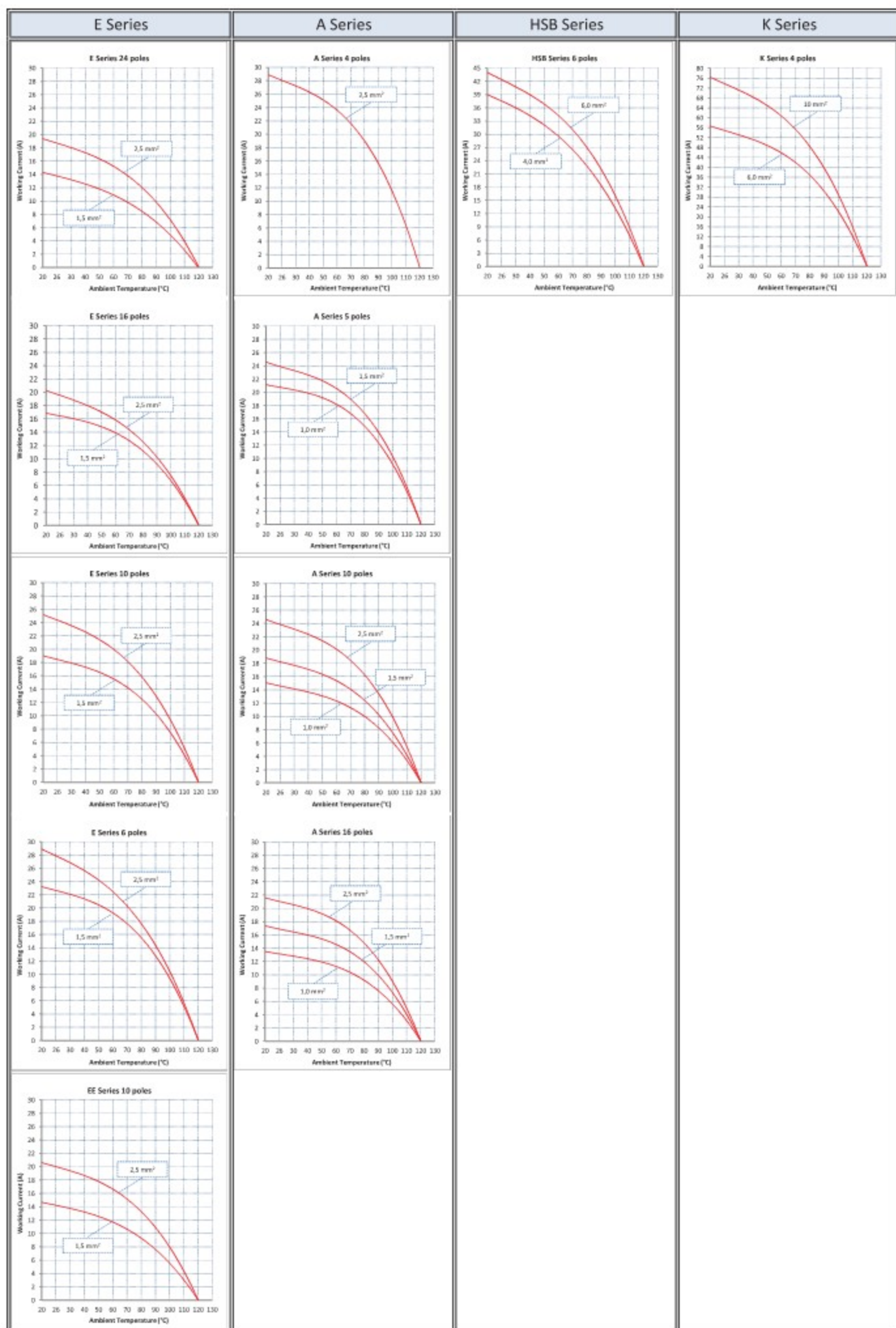
Material	PC
Gaskets	NBR
Temperature range	$-40^{\circ}\text{C} / +125^{\circ}\text{C}$
Protection Degree (Acc. to DIN EN 60529 for coupled connectors)	IP 65



INSERTS
p.10



HOODS
HOUSINGS
p.23



GENERAL CHARACTERISTICS

Multipole connectors for industrial purposes are used in electric and electronic machinery, robots, electric panels, control equipments and wherever connections are required for power, control and signal circuits. The connectors are designed for heavy duty industrial applications and are suitable for use with alternate or direct current and facilitate the manufacture, installation and maintenance of sectional electric part in complex machinery in conformance with European and US Standards.

STANDARDS

EN 61984 : Connectors safety requirements and tests

VDE 0627 : Connectors

UL 1977 : Component connectors for use in data, signal, control and power applications

ME connectors are in conformity with both European / International and American systems. This permits using them in the widest range of applications worldwide.

Products comply with Low Voltage Directive 2006 / 95 / EC.

INSERTS

The inserts are made of self extinguishing thermoplastic resin according to UL 94 -VO, normally used in ambience temperature range of -40°C ... +125°C. The inserts are available in screw, crimp and spring type. Contacts are made of silver plated brass. All inserts are numbered during injection moulding. They are:

- Suitable for use with alternate or direct current
- Leading protective ground
- Polarized for correct coupling
- Interchangeable male and female inserts in hoods and housings
- Captive screws
- Universal and can be used with all types of hoods and housings

HOOD & HOUSING

A large variety of Hood and Housings are available for specific industrial applications. The principal parts are made in die-cast aluminium alloy coated with electro-static powder paint. They are resistant to impact and strong mechanical stress.

Coupling stability and protection against accidental openings are assured by a single or double locking system comprising, monobloc metal latch made of galvanized steel.

Sealing is assured by special gaskets that protect the inserts inside the hood and housings against dust, water and other aggressive agents.

- Innovative design
- Degree of protection IP65 when connected.
- Electrical connection with protective ground.
- High mechanical strength and vibration resistance ensured by locking levers.

DESIGN AND TESTING

The connectors have been designed and tested to meet the international electrical and environmental standards.



TECHNICAL FEATURES

- 1.) Wide range of accessories
- 2.) Cable inlet in various PG, METRIC and NPT thread
- 3.) Hoods and housings die casted from aluminum alloy and self extinguishing thermoplastic inserts
- 4.) Aluminum hoods and housings are powder coated with high resistance to mechanical stress and external agents
- 5.) Inserts are made of self-extinguishing thermoplastic material reinforced with glass fiber within an operation temperature range of -40 °C ... +125 °C
- 6.) Inserts are designed by assymetric guide rails for preventing incorrect coupling
- 7.) Special seal gaskets provide an IP65 degree of protection for coupled connectors
 - 8.) Captive screws with anti-loosening flexible washers
 - 9.) Contact positions are molded and laser printed on the inserts
 - 10.) Contacts are coated by silver with connection to the conductors made via captive screws
 - 11.) Earth terminal with wide contact surface
 - 12.) Nickel plated screws and wire protector are made of brass

ELECTRICAL DATA

Overvoltage Category:

Overvoltage category is dependent on the mains voltage and the location at which the equipment is installed. It describes the maximum overvoltage resistance of a device in the event of a power supply system fault (i.e. in the event of a lightning strike).

The overvoltage category effects the dimensioning of components in that it determines the clearance air gap. Pursuant to the relative standards there are 4 overvoltage categories:

Category I: Equipment for connection to circuits in which measures are taken to limit transient overvoltage to an appropriately low level (i.e. protected electronic circuits).

Category II: Energy consuming equipment to be supplied from the fixed installation (i.e. appliances and household equipment with similar loads)

Category III: Equipment in fixed installations and for cases where the reliability and the availability of the equipment is subject to special requirements (i.e. equipment for industrial use with permanent connection to the fixed installation)

Category IV: Equipment for use at the origin of the installation (i.e. electricity meters). Overvoltage category III include equipments and components for industrial use like METECON MULTIPOLE CONNECTORS.

Pollution Degree:

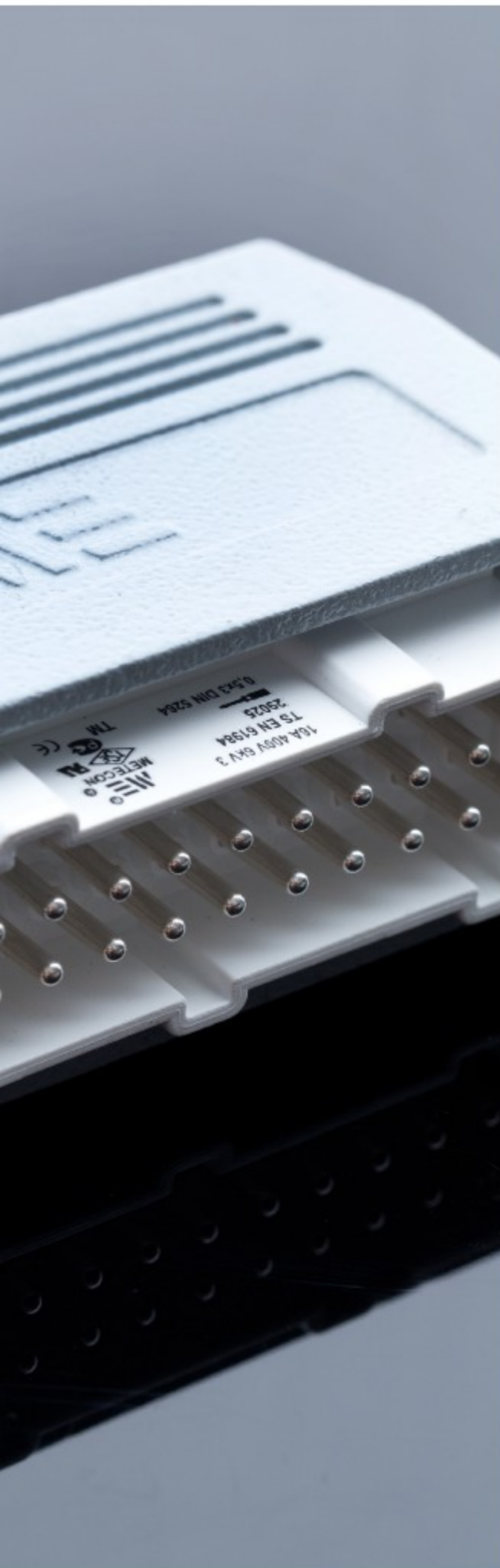
The dimensions of operating equipment is dependent on environmental conditions. Any pollution or contamination may give rise to conductivity that, in combination with moisture, may affect the insulating properties of the surface on which it is deposited. The pollution degree influences the design of the components in terms of creepage distance.

Pollution degree 1: In air conditioned or clean, dry rooms such as computer and measuring instrument rooms. No pollution or only dry, non-conductive pollution occurs.

Pollution degree 2: In residential sales and other business premises, precision engineering workshop, laboratories, testing bays, rooms for medical purposes. Only non-conductive pollution occurs except that occasionally a temporary conductivity caused by condensation is to be accepted.

Pollution degree 3: In industrial, commercial and agricultural premises, unheated storage premises, workshops or boiler rooms, machinery and for industrial automation. Conductive pollution occurs or dry non-conductive pollution occurs which becomes conductive due to condensation which is to be expected.

Pollution degree 4: In outdoor or exterior areas such as equipment mounted on the roofs of locomotives or tramcars, elevators and machinery operating outdoor for building. The pollution generates persistent conductivity caused by conductive dust or by rain or snow. METECON multipole connectors are designed as standard for pollution degree 3 and 2.





Hood

Aluminum hoods:

- Narrow and high construction hoods
- Three different locking mechanism
- IP65
- Cable entry options:
 - PG
 - Metric
 - NPT



Male Insert and Contacts

- Silver plated
- Screw, spring and crimp connection
- Numbering with laser marking for right connection



Female Insert and Contacts

- Silver plated
- Screw, spring and crimp connection
- Numbering with laser marking for right connection



Bulkhead Mounting Housing

Aluminum hoods:

- Three different locking mechanism
- NBR Gasket
- IP65

A - SERIES



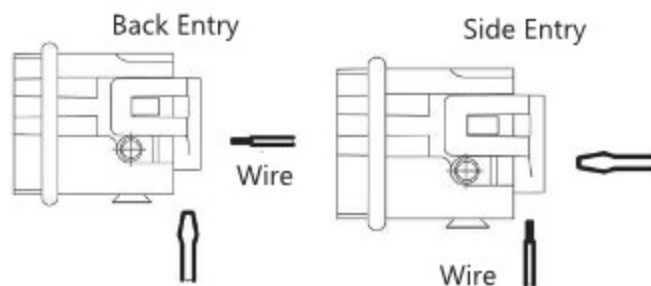
10A / 250 V (2P+E)			Size 3A
Product Code	Type	Terminal	Box Qty.
29007	Male Insert (Side Entry Wiring)	Screw	200
29006	Female Insert (Side Entry Wiring)	Screw	200
29005	Male Insert (Back Entry Wiring)	Screw	200
29004	Female Insert (Back Entry Wiring)	Screw	200



10A / 250 V (3P+E)			Size 3A
Product Code	Type	Terminal	Box Qty.
29009	Male Insert (Side Entry Wiring)	Screw	200
29008	Female Insert (Side Entry Wiring)	Screw	200
29003	Male Insert (Back Entry Wiring)	Screw	200
29002	Female Insert (Back Entry Wiring)	Screw	200



10A / 250 V (4P+E)			Size 3A
Product Code	Type	Terminal	Box Qty.
29011	Male Insert (Side Entry Wiring)	Screw	200
29010	Female Insert (Side Entry Wiring)	Screw	200
29016	Male Insert (Back Entry Wiring)	Screw	200
29012	Female Insert (Back Entry Wiring)	Screw	200



A - SERIES



16A / 250 V (10P+E)			Size 10A
Product Code	Type	Terminal	Box Qty.
29421	Male Insert	Screw	80
29420	Female Insert	Screw	80



16A / 250 V (16P+E)			Size 16A
Product Code	Type	Terminal	Box Qty.
29423	Male Insert (1-16)	Screw	60
29422	Female Insert (1-16)	Screw	60



16A / 250 V (32P+E)			Size 32A
Product Code	Type	Terminal	Box Qty.
29423	Male Insert (1-16)	Screw	60
29422	Female Insert (1-16)	Screw	60
29427	Male Insert (17-32)	Screw	60
29426	Female Insert (17-32)	Screw	60



D - SERIES

10A / 250 V (7P)			Size 3A
Product Code	Type	Terminal	Box Qty.
290113007	Male Insert (1-7)	Crimp	
290103007	Female Insert (1-7)	Crimp	

10A / 250 V (15P+E)			Size 10A
Product Code	Type	Terminal	Box Qty.
294213015	Male Insert (1-15)	Crimp	
294203015	Female Insert (1-15)	Crimp	

10A / 250 V (25P+E)			Size 16A
Product Code	Type	Terminal	Box Qty.
294233025	Male Insert (1-25)	Crimp	
294233025	Female Insert (1-25)	Crimp	

10A / 250 V (40P+E)			Size 16 - 32B
Product Code	Type	Terminal	Box Qty.
290233040	Male Insert (1-40)	Crimp	30
290223040	Female Insert (1-40)	Crimp	30

10A / 250 V (64P+E)			Size 24 - 48B
Product Code	Type	Terminal	Box Qty.
290243064	Male Insert (1-64)	Crimp	25
290253064	Female Insert (1-64)	Crimp	25



DD - SERIES



10A / 250 V (24P+E)			Size 6B
Product Code	Type	Terminal	Box Qty.
291213024	Male Insert (1-24)	Crimp	
291203024	Female Insert (1-24)	Crimp	



10A / 250 V (42P+E)			Size 10B
Product Code	Type	Terminal	Box Qty.
290213042	Male Insert (1-42)	Crimp	
290203042	Female Insert (1-42)	Crimp	



10A / 250 V (72P+E)			Size 16B
Product Code	Type	Terminal	Box Qty.
290233072	Male Insert (1-72)	Crimp	
290223072	Female Insert (1-72)	Crimp	



10A / 250 V (108P+E)			Size 24B
Product Code	Type	Terminal	Box Qty.
290253108	Male Insert (1-108)	Crimp	
290243108	Female Insert (1-108)	Crimp	



E - SERIES



16A / 400 V (6P+E)			Size 6B
Product Code	Type	Terminal	Box Qty.
29121	Male Insert	Screw	50
29120	Female Insert	Screw	50
291212006	Male Insert	Spring	50
291202006	Female Insert	Spring	50
291213006	Male Insert	Crimp	50
291203006	Female Insert	Crimp	50



16A / 400 V (10P+E)			Size 10B
Product Code	Type	Terminal	Box Qty.
29021	Male Insert	Screw	50
29020	Female Insert	Screw	50
290212010	Male Insert	Spring	50
290202010	Female Insert	Spring	50
290213010	Male Insert	Crimp	50
290203010	Female Insert	Crimp	50



E - SERIES



16A / 400 V (16P+E)			Size 16B
Product Code	Type	Terminal	Box Qty.
29023	Male Insert	Screw	30
29022	Female Insert	Screw	30
290232016	Male Insert	Spring	30
290222016	Female Insert	Spring	30
290233016	Male Insert	Crimp	30
290223016	Female Insert	Crimp	30



16A / 400 V (24P+E)			Size 24B
Product Code	Type	Terminal	Box Qty.
29025	Male Insert	Screw	25
29024	Female Insert	Screw	25
290252024	Male Insert	Spring	25
290242024	Female Insert	Spring	25
290253024	Male Insert	Crimp	25
290243024	Female Insert	Crimp	25



E - SERIES



16A / 400 V (32P+E)			Size 32B
Product Code	Type	Terminal	Box Qty.
29023	Male Insert (1-16)	Screw	30
29022	Female Insert (1-16)	Screw	30
29027	Male Insert (17-32)	Screw	30
29026	Female Insert (17-32)	Screw	30
290232016	Male Insert (1-16)	Spring	30
290222016	Female Insert (1-16)	Spring	30
290272032	Male Insert (17-32)	Spring	30
290262032	Female Insert (17-32)	Spring	30
290233016	Male Insert (1-16)	Crimp	30
290223016	Female Insert (1-16)	Crimp	30
290273032	Male Insert (17-32)	Crimp	30
290263032	Female Insert (17-32)	Crimp	30



16A / 400 V (48P+E)			Size 48B
Product Code	Type	Terminal	Box Qty.
29025	Male Insert (1-24)	Screw	25
29024	Female Insert (1-24)	Screw	25
29029	Male Insert (25-48)	Screw	25
29028	Female Insert (25-48)	Screw	25
290252024	Male Insert (1-24)	Spring	25
290242024	Female Insert (1-24)	Spring	25
290282048	Male Insert (25-48)	Spring	25
290292048	Female Insert (25-48)	Spring	25
290253024	Male Insert (1-24)	Crimp	25
290243024	Female Insert (1-24)	Crimp	25
290293048	Male Insert (25-48)	Crimp	25
290283048	Female Insert (25-48)	Crimp	25



EE - SERIES

16A / 500 V (10P+E)			Size 6B
Product Code	Type	Terminal	Box Qty.
291213010	Male Insert	Crimp	30
291203010	Female Insert	Crimp	30



16A / 500 V (10P+E) (18P+E)			Size 10B
Product Code	Type	Terminal	Box Qty.
290213018	Male Insert (1-18)	Crimp	
290203018	Female Insert (1-18)	Crimp	



16A / 500 V (10P+E) (32P+E)			Size 16B
Product Code	Type	Terminal	Box Qty.
290233032	Male Insert (1-32)	Crimp	
290223032	Female Insert (1-32)	Crimp	



16A / 500 V (10P+E) (46P+E)			Size 24B
Product Code	Type	Terminal	Box Qty.
290253046	Male Insert (1-46)	Crimp	
290243046	Female Insert (1-46)	Crimp	



HSB - SERIES



35A / 400-690 V (6P+E)			Size 16B
Product Code	Type	Terminal	Box Qty.
29125	Male Insert (1-6)	Screw	30
29124	Female Insert (1-6)	Screw	30



35A / 400-690 V (12P+E)			Size 32B
Product Code	Type	Terminal	Box Qty.
29125	Male Insert (1-6)	Screw	30
29124	Female Insert (1-6)	Screw	30
29129	Male Insert (7-12)	Screw	30
29128	Female Insert (7-12)	Screw	30



K - SERIES



80A 400-690 V (4P+E)			Size 16B
Product Code	Type	Terminal	Box Qty.
29115	Male Insert	Screw	30
29114	Female Insert	Screw	30



80A / 16A 400-690 V (4P+2P+E)			Size 16B
Product Code	Type	Terminal	Box Qty.
29117	Male Insert	Screw	30
29116	Female Insert	Screw	30



80A / 16A 400-690 V (4P+8P+E)			Size 24B
Product Code	Type	Terminal	Box Qty.
29113	Male Insert	Screw	25
29112	Female Insert	Screw	25



CODING PINS



1102660

- Coding Pin
- 5x12 m



1109660

- Guide Pin
- 5x12 m



1109760

- Guide Bushing
- 5x12 m



1109860

- Single Coding Pin
- 5x12 m

16A CRIMP CONTACTS



MALE CRIMP CONTACTS

Product Code	Cable Section
141061	0.14 mm ² - 0.37 mm ²
141062	0.50 mm ²
141063	0.75 mm ²
141064	1.00 mm ²
141065	1.50 mm ²
141066	2.50 mm ²
141067	3.00 mm ²
141068	4.00 mm ²



FEMALE CRIMP CONTACTS

Product Code	Cable Section
141051	0.14 mm ² - 0.37 mm ²
141052	0.50 mm ²
141053	0.75 mm ²
141054	1.00 mm ²
141055	1.50 mm ²
141056	2.50 mm ²
141057	3.00 mm ²
141058	4.00 mm ²

10A CRIMP CONTACTS



MALE CRIMP CONTACTS

Product Code	Cable Section
141041	0.14 mm ² - 0.37 mm ²
141042	0.50 mm ²
141043	0.75 mm ²
141044	1.00 mm ²
141045	1.50 mm ²
141046	2.50 mm ²



FEMALE CRIMP CONTACTS

Product Code	Cable Section
141031	0.14 mm ² - 0.37 mm ²
141032	0.50 mm ²
141033	0.75 mm ²
141034	1.00 mm ²
141035	1.50 mm ²
141036	2.50 mm ²



29940

- Crimping Tool Without Locator
- 0,14 to 4,0 mm



29942

- Removal Tool
- For 10A Crimp Contacts



29941

- Removal Tool
- For 16A Crimp Contacts

INSPIRED BY NATURE

— Cactuses are very durable plants. They can withstand burning heat and freezing temperatures. Due to its strong structure, they can survive for a very long time.

