



# IEC 61984 Heavy Duty Connectors Short Form Catalogue

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[www.metecon.com.tr](http://www.metecon.com.tr)





## 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. They facilitate production, installation and maintenance of sectional electric parts in complex machinery in conformity with European and US Standards.

## DESIGN AND TESTING

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

## INSERTS

The inserts are made of self extinguishing thermoplastic resin according to UL 94 - V0, normally used in ambient tem-

perature range of -40°C ... +120°C. The inserts are available in screw, crimp and spring type. Contacts are made of silver plated brass. All inserts are numbered by laser printing after injection moulding.

## HOOD & HOUSINGS

A large variety of Hood and Housings are available for specific industrial applications. The principal parts are made of 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 comprised of 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.

**Hood**

Aluminium hoods:

- Narrow and high construction hoods
- Three different locking mechanisms
- 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 Mounted Housing**

Aluminium hoods:

- Three different locking mechanisms
- NBR Gasket
- IP65



**Crimp Contacts**

Rated Current: 10/16A  
Terminal Type: Crimp

- 0,14 mm<sup>2</sup> - 0,37 mm<sup>2</sup>
- 0,50 mm<sup>2</sup>
- 1,00 mm<sup>2</sup>
- 1,50 mm<sup>2</sup>
- 2,50 mm<sup>2</sup>

- 0,14 mm<sup>2</sup> - 0,37 mm<sup>2</sup>
- 0,50 mm<sup>2</sup>
- 1,00 mm<sup>2</sup>
- 1,50 mm<sup>2</sup>
- 2,50 mm<sup>2</sup>
- 3,00 mm<sup>2</sup>
- 4,00 mm<sup>2</sup>



10A



16A



29942  
Crimp removal tool  
for 10A contacts



29941  
Crimp removal tool  
for 16A contacts



29940  
Crimping tool without  
locator for 10/16A  
contacts

**Coding Pins**

- Minimizing and preventing operator errors
- Prevents mismatch connection
- Up to 72 different combinations
- Time saving in assembly



1102660  
• Coding Pin  
• 5x12 mm



1109660  
• Guide Pin  
• 5x12 mm



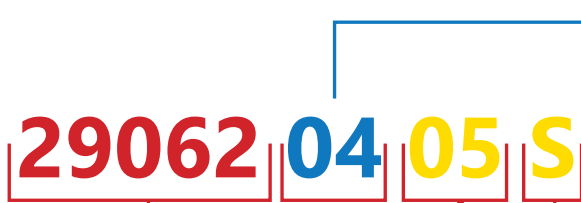
1109760  
• Guide Bushing  
• 5x12 mm



1109860  
• Single Coding Pin  
• 5x12 mm

**Hoods & Housing Code System**

**Cable Entry Options**



Product Code

Enclosure Colour Code  
● 04: Black  
● 05: Grey

28:N 1	21:M16	22:M20	03:PG11	04:PG13,5
29:N 3/4	23:M25	24:M32	05:PG16	06:PG21
30:N 1/2	25:M40	26:M50	07:PG29	08:PG36
NPT System		METRIC System	PG System	

- Letter "S" indicates that the latch is made of metal, otherwise the latch on the body is made of plastic.
- Note: Letter "S" is only used on latched Hood/Housings.

**High Construction Hoods Code System**

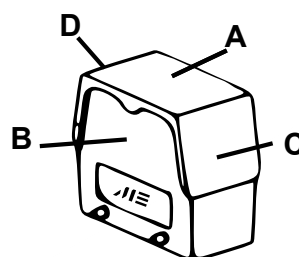
First 5 digits	6th digit	7th & 8th digit	9th & 10th digit
Main Code	A,B,C,D Surfaces	Cable Entry Size	Colour

Enclosure Type	Main Code Single Lever	Main Code Double Lever
68	29172	
108	29357	29174
168	29367	29176
248	29377	29178

Surface	Code
A Side	0
C Side	2
B Side	4
AA Side	1
BB Side	5
CC Side	3

System	Code
PG 11	03
PG 13,5	04
PG 16	05
PG 21	06
PG 29	07
PG 36	08
PG 42	09
PG 48	10
M 12	20
M 16	21
M 20	22
M 25	23
M 32	24
M 40	25
M 50	26
M 63	27
N 1	28
N 3/4	29
N 1/2	30

Code	Colour
04	Black
05	Grey



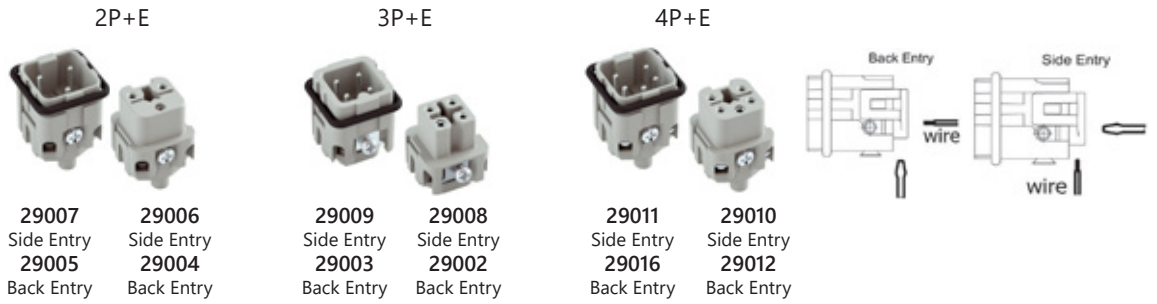
Enclosures with Lever		
Enclosure Type	Main Code Single Lever	Main Code Double Lever
68	29173S	
108	29358S	29175S
168	29368S	29177S
248	29378S	29179S

Example: **29178 2 07 05**  
(24B H80 Hood double lever  
Pg29 Side cable entry)



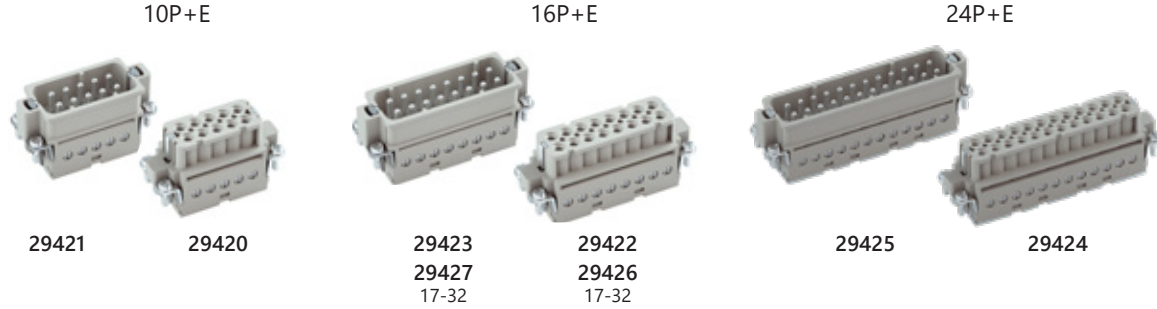
**A Series**

Rated Current: 10A  
 Rated Voltage: 250V  
 Terminal: Screw  
 Compatible hood/housing:  
 Size 3A



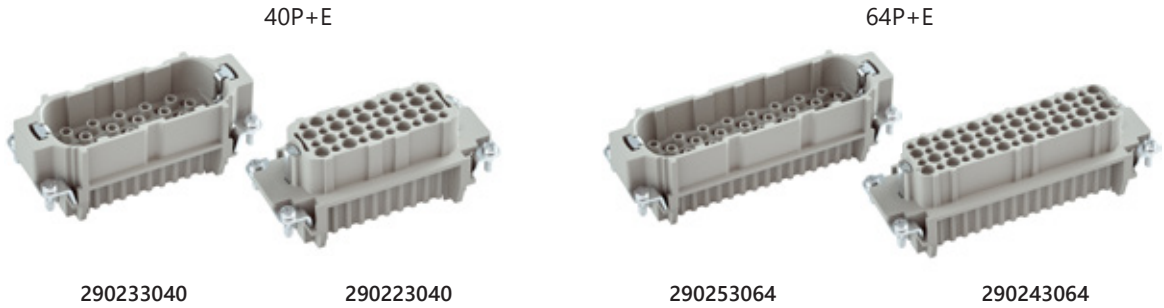
**A Series**

Rated Current: 16A  
 Rated Voltage: 250V  
 Terminal: Screw  
 Compatible hood/housing:  
 Size 10A-16A-24A-32A



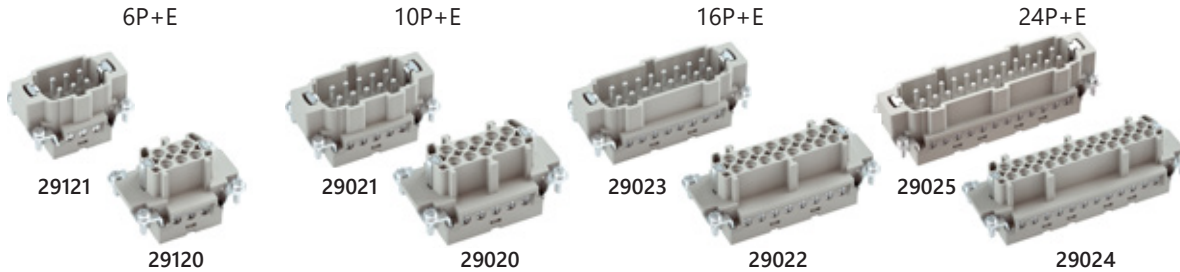
**D Series**

Rated Current: 10A  
 Rated Voltage: 250V  
 Terminal: Crimp  
 Compatible hood/housing:  
 Size 16B-24B



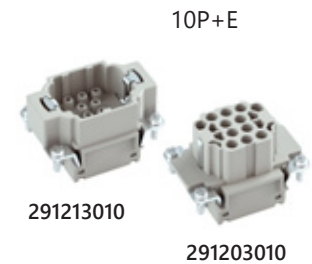
**E Series**

Rated Current: 16A  
 Rated Voltage: 500V  
 Terminal: Screw /  
 Spring / Crimp  
 Compatible hood/housing:  
 Size 6B-10B-16B-24B  
 Size 32B-48B



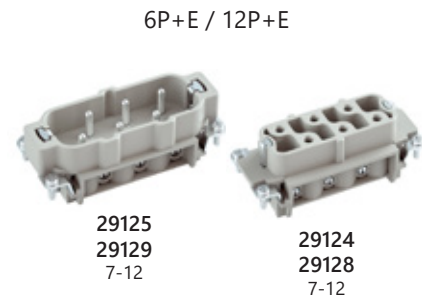
**EE Series**

Rated Current: 16A  
 Rated Voltage: 500V  
 Terminal: Crimp  
 Compatible hood/housing:  
 Size 6B



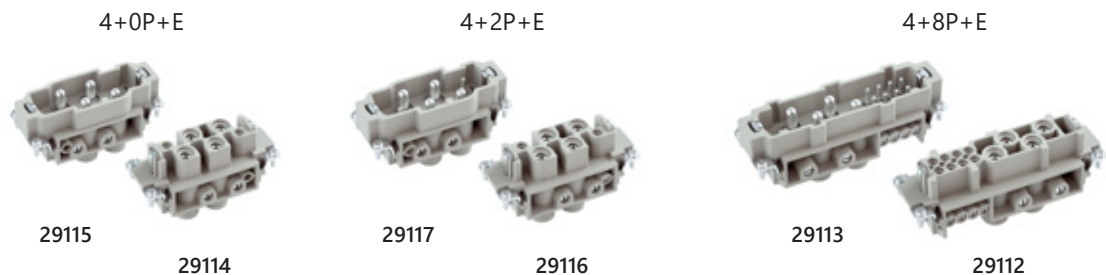
**HSB Series**

Rated Current: 35A  
 Rated Voltage: 400 / 690V  
 Terminal: Screw  
 Compatible hood/housing:  
 Size 16B-32B



**K Series**

Rated Current: 80/16A  
 Rated Voltage: 830/690/400V  
 Terminal: Screw  
 Compatible hood/housing:  
 Size 16B-24B



**3A Size**

Material: PC - Plastic  
 Construction: Low  
 Lever / Latch: Single / Plastic  
 Cable Entry: Top - Side  
 Cable Entry: PG11 - M20  
 Suitable Series: A Series  
 IP Degree: 65



29080

29079

29075

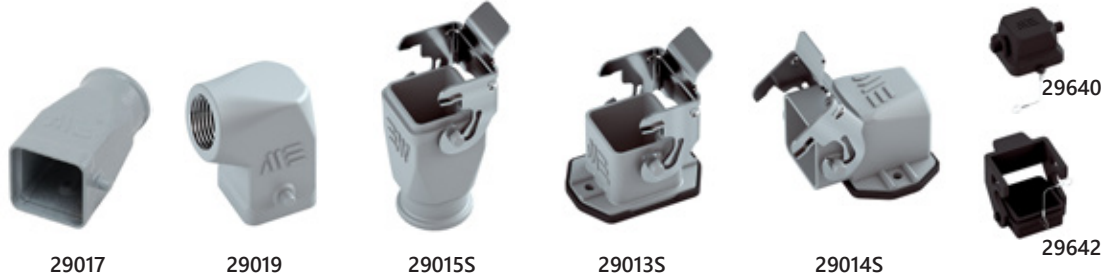
29077

29640

29642

**3A Size**

Material: Aluminium  
 Construction: Low  
 Lever / Latch: Single / Metal  
 Cable Entry: Top - Side  
 Cable Entry: PG11/13.5 - M20  
 Suitable Series: A Series  
 IP Degree: 65



29017

29019

29015S

29013S

29014S

29640

29642

**3A Size**

Material: Aluminium  
 Construction: High  
 Lever / Latch: Single / Metal  
 Cable Entry: Top - Side  
 Cable Entry: PG11/13.5 - M20/25  
 Suitable Series: A Series  
 IP Degree: 65



29071

290712

29070

290702

29640

29642

**10-16-24A Size**

Material: Aluminium  
 Construction: Low  
 Lever / Latch: Single / Plastic  
 Cable Entry: Top - Single Side/  
 Double Side  
 Cable Entry: PG13.5/16 - M20/25  
 Suitable Series: A Series  
 IP Degree: 65



293502

293512

293532

293542

**32A Size**

Material: Aluminium  
 Construction: Low  
 Lever / Latch: Double / Plastic  
 Cable Entry: Top - Single Side/  
 Double Side  
 Cable Entry: PG21/29 - M32/40  
 Suitable Series: A Series  
 IP Degree: 65



290462

290812

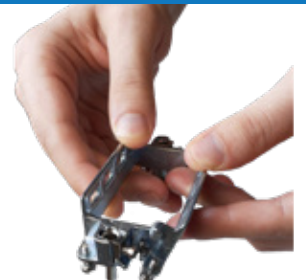
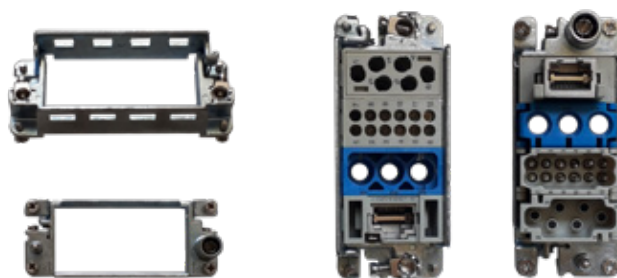
290602

**MODULAR METAL FRAME**

**Modular Metal Frame**

Material: Zinc die-cast  
 Module Number: 4  
 Suitable Enclosure: 16B  
 Locking Type: Spring

29250160361: A-D  
 29250160371: a-d



New Product

**6-10-16-24B Size**

Material : Aluminium  
 Construction: Low  
 Lever / Latch: Single / Metal  
 Cable Entry: Top - Single  
 Side/Double Side  
 Cable Entry: PG16/13.5 - M20/25  
 Suitable Series: D-DD-E-EE-HSB-K Series  
 IP Degree: 65



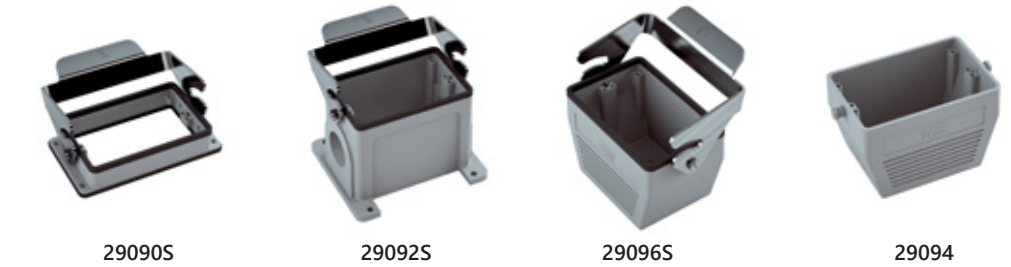
**10-16-24B Size**

Material : Aluminum  
 Construction: Low  
 Lever / Latch: Double / Metal  
 Cable Entry: Top - Side/Double Side  
 Cable Entry: PG16/13.5 - M20/25  
 Suitable Series: D-DD-E-EE-HSB-K Series  
 IP Degree: 65



**48B Size**

Material : Aluminium  
 Construction: Low  
 Lever / Latch: Single / Metal  
 Cable Entry: Top - Side/Double Side  
 Cable Entry: PG21/29/36 - M32/40/50  
 Suitable Series: D-DD-E-EE-HSB-K Series  
 IP Degree: 65



**32-48B Size**

Material : Aluminium  
 Construction: Low  
 Lever / Latch: Double / Metal  
 Cable Entry: PG21/29/36 - M32/40/50  
 Cable Entry: Top - Single  
 Side/Double Side  
 Suitable Series: D-DD-E-EE-HSB-K Series  
 IP Degree: 65



**6-10-16-24B Size**

Material : Aluminium  
 Construction: High  
 Lever / Latch: Single-Double / Metal  
 Cable Entry: Optional  
 Suitable Series: D-DD-E-EE-HSB-K Series  
 IP Degree: 65



**Cable Gland**

Material: Polyamid  
 IP Degree: 68  
 Cable Size Metric:  
 12-16-20-25-40-50  
 Cable Size PG:  
 11-13.5-16-21-29-36



50502

**Cable Gland**

Material: Metal  
 IP Degree: 68  
 Cable Size Metric:  
 12-16-20-25-40-50  
 Cable Size PG:  
 11-13.5-16-21-29-36



50202

**Hot Runner Enclosure**

Material : 2mm Metal Sheet  
 Suitable for: 2x10-16-24B



117010103

117010203



# NEW PRODUCT

## MODULAR METAL FRAME

### Modular Metal Frame

Material: Zinc die-cast

Module Number: 4

Suitable Enclosure: 16B

Locking Type: Spring



### 3 Steps Assembly



1. Open the spring flap



2. Mount the modules



3. Release the spring flap

### Advantages:

- Time Saving
- Safe Connection
- Inox Fixing Screws
- High Impact Resistance
- Easy Module Mounting / Dismounting

## 24B PLASTIC HOOD & HOUSING

- Material: PA66
- Hood Height: 70mm
- Lever: Double
- Cable Entry: Side
- Cable Entry Size: PG29
- Suitable Series: D-DD-E-EE-HSB-K
- Fire Resistance According to UL94 V0

2900045



2900044

**METE**<sup>®</sup>  
powerful connections

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