

# HD SERIES

The HD series inserts are designed for use in industries where a large numbers of contacts are required. These crimp inserts are available with stamped and formed or machined contacts.

These inserts fit into the HA and HBE Series housings which are now standard with fixed levers.

# of Contacts: 7, 8, 15, 16, 24, 25, 40, 50, 64, 80, 128 (+PE)





# Rectangular Connectors HD Series

## TECHNICAL DATA

### **Crimp Inserts:**

**Number of Contacts:** 7, 8, 15, 16, 24, 25, 40, 50, 64, 80, 128(+PE)

**Rated Voltage:** VDE: 42/250V EPIC HD 7-8  
250V EPIC HD 15-128  
UL: 600V EPIC HD 7-128  
SEV: 250V EPIC HD 7-128

**Rated Current:** VDE: 10A EPIC HD 7-128  
UL: 10A EPIC HD 7-128  
SEV: 10A EPIC HD 7-128

**Pollution Level:** 3

**Test Voltage:** 2.5 kV

**Termination Type:** Crimp termination: 0.14 - 2.5 mm<sup>2</sup>  
AWG: 22 - 14

**Temperature Range:** -40°C to 125°C

**Contacts:** Copper alloy, silver plated/ gold plated

**Contact Resistance:** <2mOhm

**Mating Cycles:** 100 (higher mating cycles depends on the application)

### **Terminal Block Inserts:**

**Number of Contacts:** 16, 24, 40, 64 (+PE)

**Rated Voltage:** VDE: 250V  
UL: 600V  
CSA: 600V  
SEV: 250V

**Rated Current:** VDE: 10A  
UL: 7A  
CSA: 10A  
SEV: 10A

**Pollution Level:** 3

**Test Voltage:** 2.5 kV

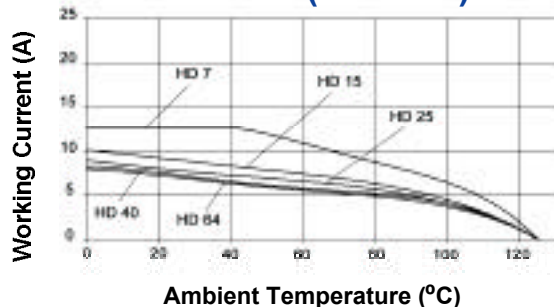
**Termination Type:** Screw: 0.5 - 1.5 mm<sup>2</sup>

**Temperature Range:** -40°C to 115°C

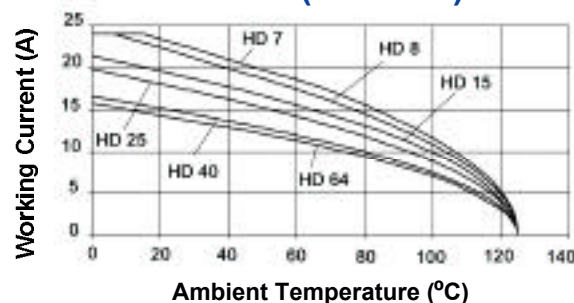
**Contacts:** Copper alloy, tin plated

## TECHNICAL DATA: DERATING CURVES

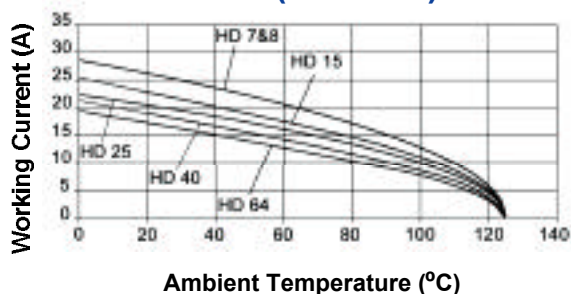
### HD STAMPED & FORMED: 0.5 mm<sup>2</sup> (20 AWG)



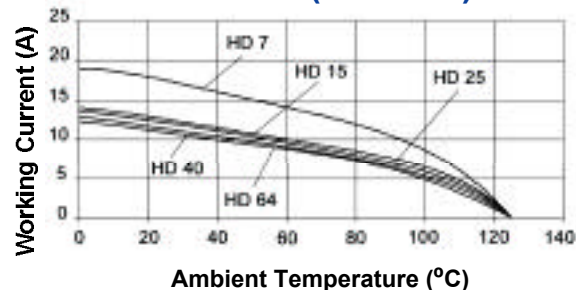
### HD CRIMP MACHINED: 1.5 mm<sup>2</sup> (16 AWG)



### HD CRIMP MACHINED: 2.5 mm<sup>2</sup> (14 AWG)



### HD STAMPED & FORMED: 1.5 mm<sup>2</sup> (16 AWG)

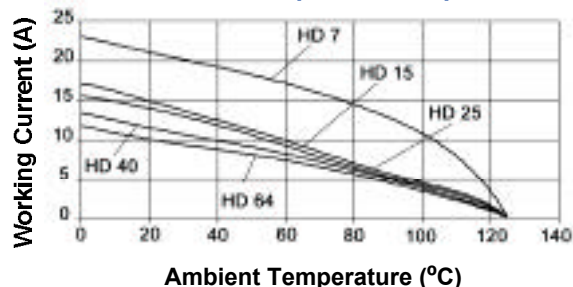




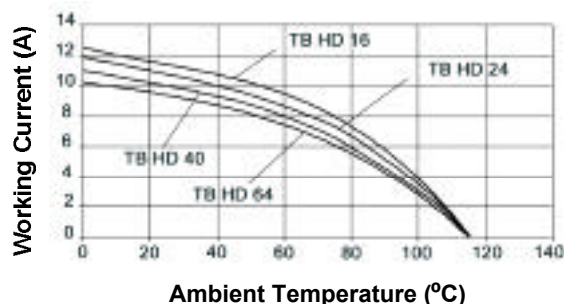
# Rectangular Connectors HD Series

## TECHNICAL DATA: DERATING CURVES

**HD STAMPED & FORMED:  
2.5 mm<sup>2</sup> (14 AWG)**



**HD TB: 1.5 mm<sup>2</sup> (16 AWG)**



## TECHNICAL DATA: HOUSINGS

### HA SERIES HOUSINGS PANEL CUT-OUTS

#### Housings:

#### Specifications:

DIN 43652

#### Temperature Range:

-40°C to +125°C

#### Protection class:

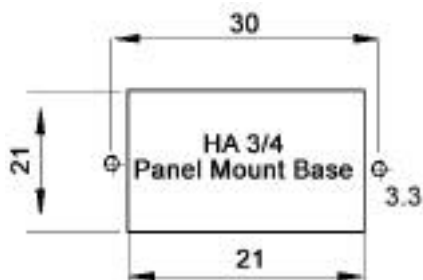
IP65: HA 3, 10, 16

#### Material:

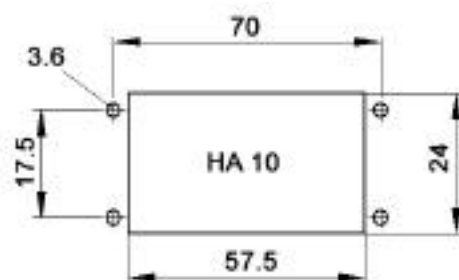
HA 3: Die cast zinc, powder coated/ Thermoplast, flame retardant material rated UL 94 V-0  
HA 10-48: aluminum alloy, powder coated

### PANEL CUT-OUTS FOR PANEL MOUNT BASES

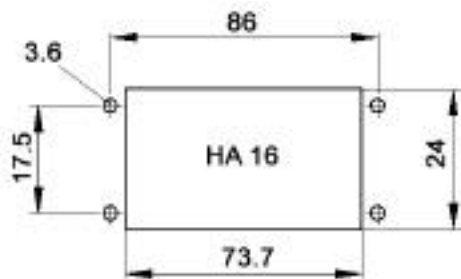
HD 7/8 Inserts fit into



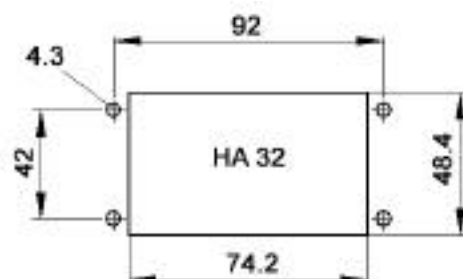
HD 15 Inserts fit into



HD 25 Inserts fit into



HD 50 Inserts fit into



All dimensions are in mm.



# Rectangular Connectors HD Series

## TECHNICAL DATA: HOUSINGS

### Housings:

#### Specifications:

DIN 43652

#### Temperature Range:

-40°C to +125°C

#### Protection class:

IP 65: HA 3, 10, 16, 32, 48

#### Material:

HA 3: Die cast zinc, powder coated/ Thermoplast, flame retardant material rated UL 94 V-0

HA 10-48: aluminum alloy, powder coated

### STANDARD GREY COATING (NEMA 4)

#### PG



#### NPT



#### METRIC



DIN 50262

**HA 3/4:** Die cast zinc, powder coated (Grey)

Thermoplast, flame retardant material rated UL 94 V-0 (Grey or Black Plastic).

#### PG



#### NPT



#### METRIC



DIN 50262

**HA 10 - 48:** aluminum alloy, powder coated (grey), locking levers and bolts made of zinc plated steel.

For industrial applications in demanding environments.

### BLACK COATING (NEMA 4X)

#### PG



#### NPT



#### METRIC



DIN 50262

**EP:** Environmentally Protected:

HA 10 - 48: aluminum alloy, powder coated (black), locking levers and bolts made of stainless steel.

For industrial applications in extremely demanding environments with aggressive atmospheres.

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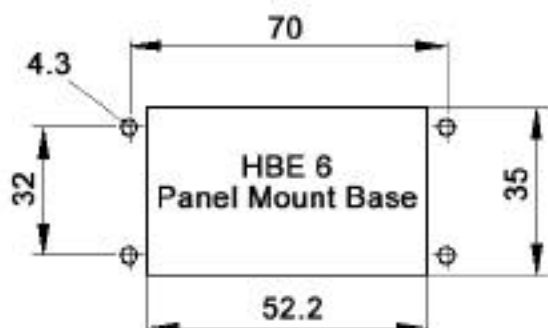
# Rectangular Connectors HD Series

## TECHNICAL DATA: HOUSINGS

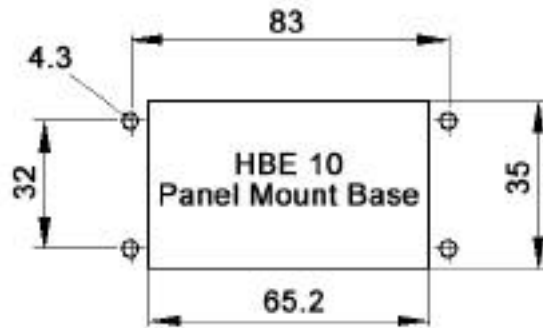
<b>Specifications:</b>	DIN 43652
<b>Temperature Range:</b>	-40°C to +125°C
<b>Protection class:</b>	NEMA 4, IP 65
<b>Material:</b>	HBE 6 -48: aluminum alloy, powder coated

### PANEL CUT-OUTS FOR PANEL MOUNT BASES

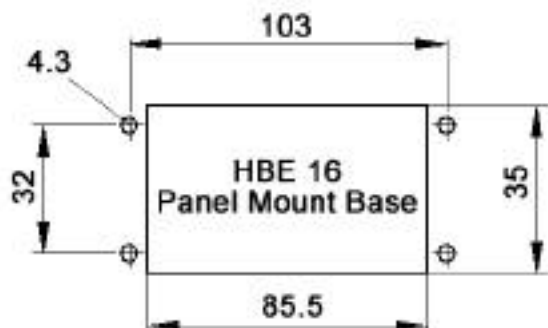
HD 16 Inserts fit into



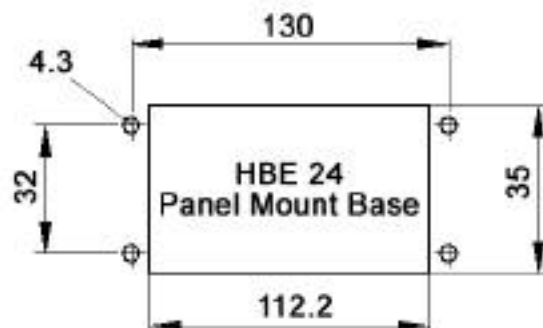
HD TB 24 Inserts fit into



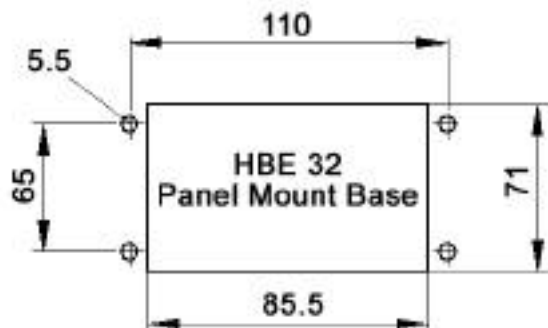
HD 40/HD TB 16 Inserts fit into



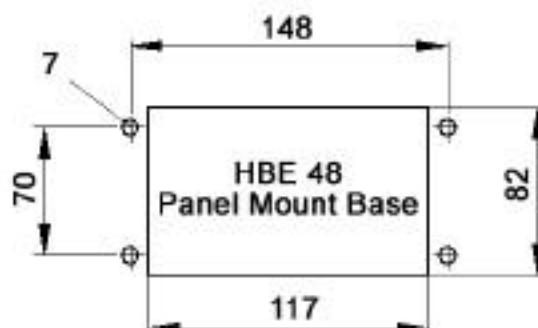
HD 64 Inserts fit into



HD 80 Inserts fit into



HD 128 Inserts fit into



All dimensions are in mm.



# Rectangular Connectors HD Series

## TECHNICAL DATA: HOUSINGS

**Specifications:** DIN 43652  
**Temperature Range:** -40°C to +125°C  
**Protection class:** IP65  
**Material:** HBE 6 -48: aluminum alloy, powder coated

### STANDARD GREY COATING (NEMA 4)

**PG**



**NPT**



**METRIC**



**HBE 6 - 48:** aluminum alloy, powder coated (grey), locking levers and bolts made of zinc plated steel.

For industrial applications in demanding environments.

### BLACK COATING (NEMA 4X)

**PG**



**NPT**



**METRIC**



**HBE 6 - 48 EP:** Environmentally Protected: aluminum alloy, powder coated (black), locking levers and bolts made of stainless steel.

For industrial applications in extremely demanding environments with aggressive atmospheres.

NEMA 4X

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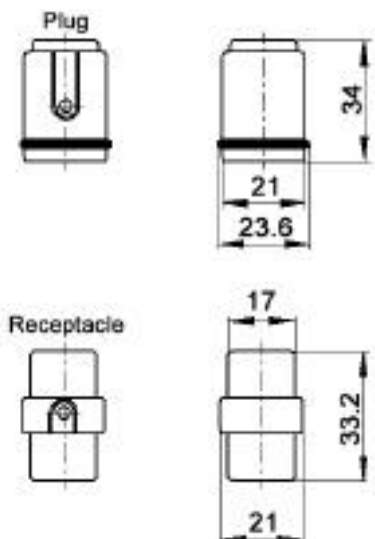
# Rectangular Connectors HD Series

## HD 7 CRIMP TERMINATED: MACHINED CONTACT INSERTS

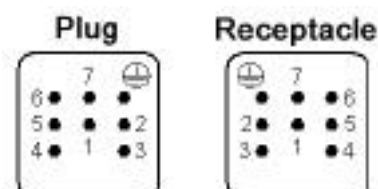


Plug	Receptacle
11.2505	11.2515

Contacts Sold Separately



View from Cable Side



These inserts fit in the HA 3/4 Series Housings which are on the following pages.

All dimensions are in mm.

## MACHINED CONTACTS: DIAMETER 1.6 MM



Bags of 100							
mm2	AWG	Silver			Gold		
		Pin	Socket	Stripping Length	Pin	Socket	Stripping Length
0.14 - 0.37	26 - 22	13.1620	13.1630	8	13.1625	13.1635	8
0.5	20	13.1621	13.1631	8	13.1626	13.1636	8
0.75 - 1.0	18	13.1622	13.1632	8	13.1627	13.1637	8
1.5	16	13.1623	13.1633	8	13.1628	13.1638	8
2.5	14	13.1624	13.1634	5.8	-	-	-

## TOOLS

WIRE GAUGE: 0.14 - 2.5 MM2



Locator  
11.1472



Crimp Dies  
11.1471



Crimp Tool  
11.1470



Removal Tool:  
11.1610

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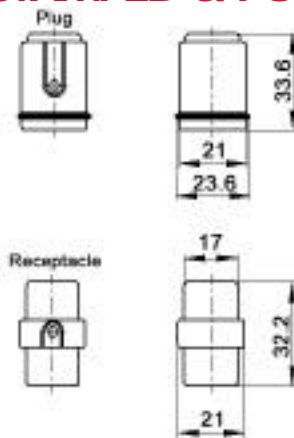
# Rectangular Connectors HD Series

## HD 7 CRIMP TERMINATED: STAMPED & FORMED CONTACT INSERTS



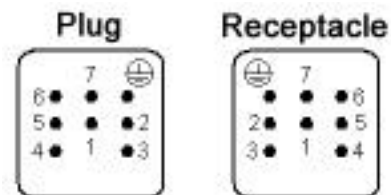
Plug	Receptacle
11.2500	11.2510

Contacts Sold Separately



All dimensions are in mm.

View from Cable Side



These inserts fit in the HA 3/4 Series Housings which are on the following pages.

## STAMPED & FORMED CONTACTS: DIAMETER 1.6MM



Reel feeds from left.

mm2	AWG	Bags of 100				Reels of 200		Stripping Length
		Silver		Gold		Silver		
		Pin	Socket	Pin	Socket	Pin	Socket	
0.14 - 0.5	26 - 20	11.2411	11.2311	11.2431	11.2331	11.2407	11.2307	2.5 - 0.5
0.5 - 1.5	20 - 16	11.2210	11.2361	11.2213	11.2381	11.2207	11.2357	3.5 - 0.5
1.5 - 2.5	16 - 14	11.2235	11.2285	-	-	11.2230	11.2280	3.5 - 0.5

## TOOLS

WIRE GAUGE: 0.14 - 2.5 MM2



**Crimp Tool**  
11.1470



**Locator**  
11.1473



**Removal Tool:**  
11.1610



**Crimp Tool for Reel:**  
11.1535



Crimp Dies	
0.14-0.5:	11.147170
0.5-1.5:	11.147180
1.5-2.5:	11.147190

Crimp Dies for Reel:	
0.14-0.5:	11.1536
0.5-1.5:	11.1537
1.5-2.5:	11.1538



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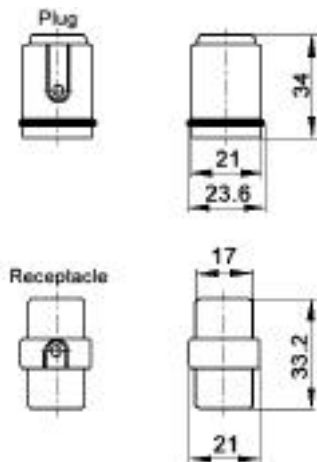
# Rectangular Connectors HD Series

## HD 8 CRIMP TERMINATED: MACHINE CONTACT INSERTS



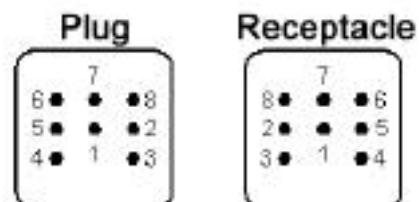
Plug	Receptacle
11.2525	11.2535

Contacts Sold Separately



All dimensions are in mm.

View from Cable Side



These inserts fit in the HA 3/4 Series Housings which are on the following pages.

## MACHINED CONTACTS: DIAMETER 1.6MM



Bags of 100							
mm2	AWG	Silver			Gold		
		Pin	Socket	Stripping Length	Pin	Socket	Stripping Length
0.14 - 0.37	26 - 22	13.1620	13.1630	8	13.1625	13.1635	8
0.5	20	13.1621	13.1631	8	13.1626	13.1636	8
0.75 - 1.0	18	13.1622	13.1632	8	13.1627	13.1637	8
1.5	16	13.1623	13.1633	8	13.1628	13.1638	8
2.5	14	13.1624	13.1634	5.8	-	-	-

## TOOLS

WIRE GAUGE: 0.14 - 2.5 MM2



Locator  
11.1472



Crimp Dies  
11.1471



Crimp Tool  
11.1470



Removal Tool:  
11.1610

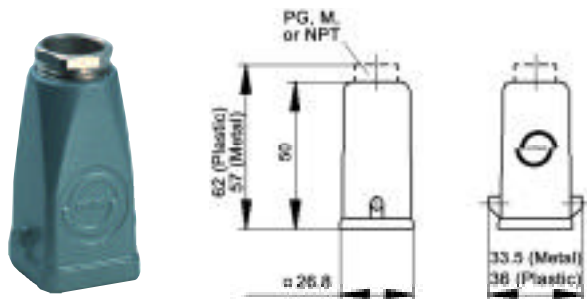
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# Rectangular Connectors HD Series

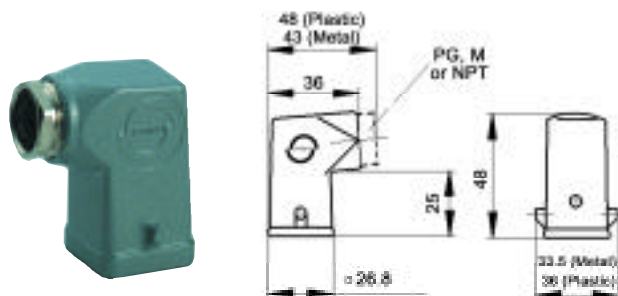
## HA 3 & 4 HOODS WITH SINGLE LEVER BOLTS

### TOP ENTRY



All dimensions are in mm.

### SIDE ENTRY



All dimensions are in mm.

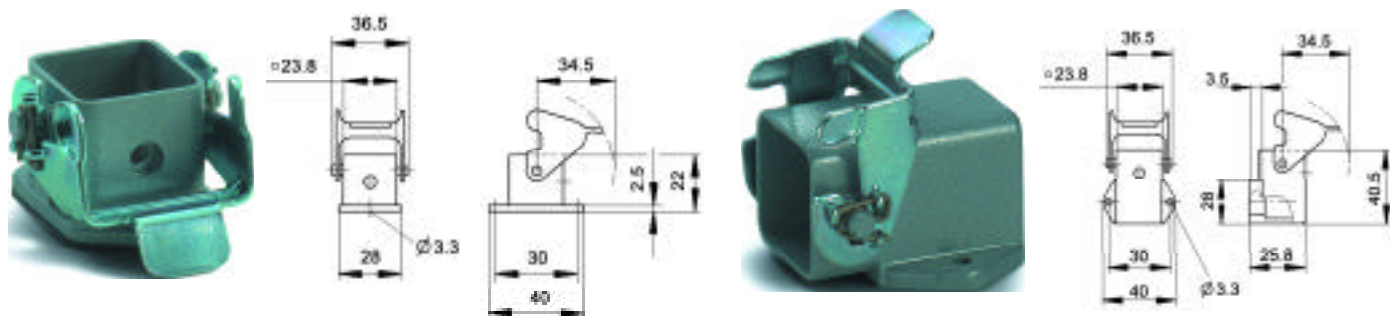
### TOP ENTRY

Material	Size of Entry			Without Cable Gland			With Cable Gland			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Zinc Die Cast	11	1/2"	20	10.5121	10.5121NP	19.5121	10.4265	10.4265NP	19.4265	○	□	△
Black Plastic	11	1/2"	20	10.4255	10.4255NP	19.4255	10.4267	10.4267NP	-	○	□	△
Grey Plastic	11	1/2"	20	10.4260	10.4260NP	19.4260	10.4264	10.4264NP	-	○	□	△

### SIDE ENTRY

Material	Size of Entry			Without Cable Gland			With Cable Gland			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Zinc Die Cast	11	1/2"	20	10.5123	10.5123NP	19.5123	10.4275	10.4275NP	19.4275	○	□	△
Black Plastic	11	1/2"	20	10.4273	10.4273NP	19.4273	10.6206	10.6206NP	-	○	□	△
Grey Plastic	11	1/2"	20	10.4270	10.4270NP	19.4270	10.4271	10.4271NP	-	○	□	△

## HA 3 & 4 PANEL MOUNT BASES WITH SINGLE LEVER



All dimensions are in mm.

	Grey Metal	Black Plastic	Grey Plastic
Panel Mount	10.4225	10.4222	10.4220
Angled Panel Mount	10.4235	10.4231	10.4230

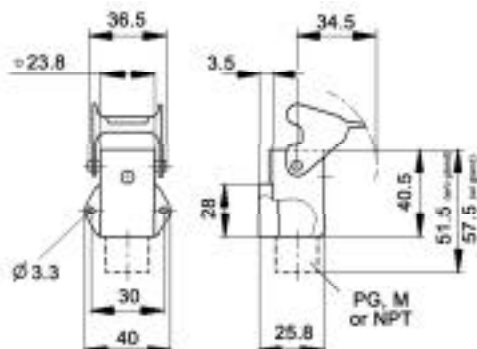
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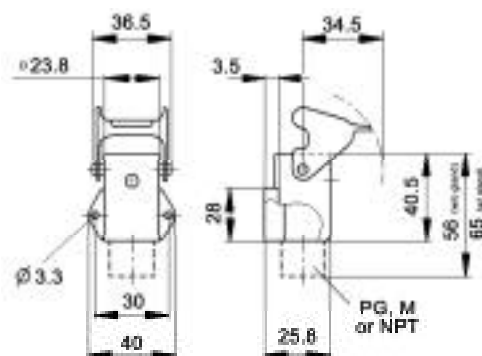
# Rectangular Connectors HD Series

## HA 3 & 4 SURFACE MOUNT BASES WITH SINGLE LEVER

### METAL



### PLASTIC

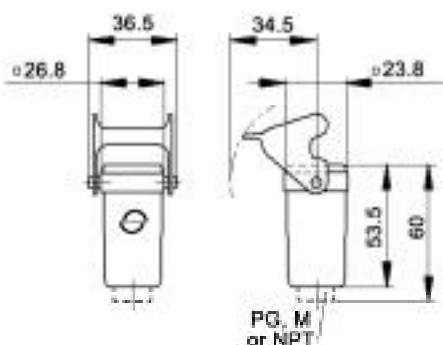


All dimensions are in mm.

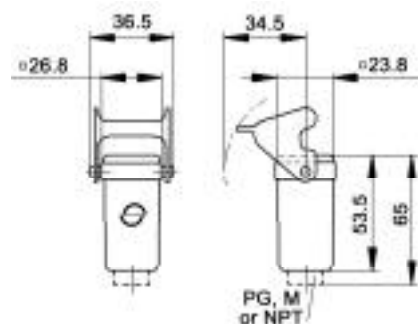
Material	Size of Entry			Without Cable Gland			With Cable Gland			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Zinc Die Cast	11	1/2"	20	10.5127	10.5127NP	19.5127	10.4245	10.4245NP	19.4245	○	■	▲
Black Plastic	11	1/2"	20	10.5117	10.5117NP	19.5118	10.4247	10.4247NP	-	○	■	▲
Grey Plastic	11	1/2"	20	10.4240	10.4240NP	19.4241	10.4242	10.4242NP	-	○	■	▲

## HA 3 & 4 CABLE COUPLER HOODS WITH SINGLE LEVERS

### METAL



### PLASTIC



All dimensions are in mm.

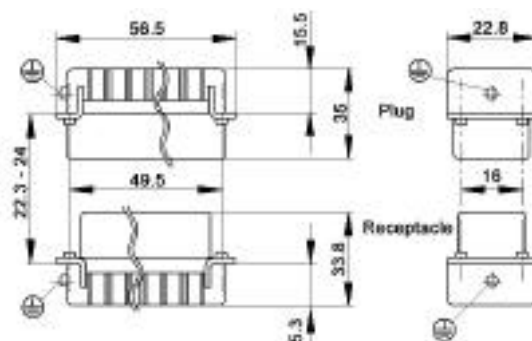
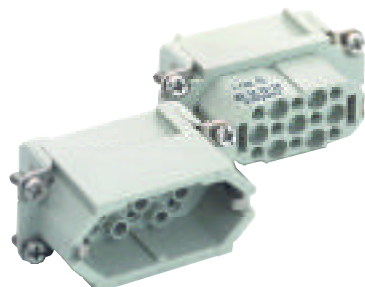
Material	Size of Entry			Without Cable Gland			With Cable Gland			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Zinc Die Cast	11	1/2"	20	10.5129	10.5129NP	19.5129	10.4295	10.4295NP	19.4295	○	■	▲
Black Plastic	11	1/2"	20	10.4292	10.4292NP	19.4292	10.6203	10.6203NP	-	○	■	▲
Grey Plastic	11	1/2"	20	10.4290	10.4290NP	19.4290	10.4291	10.4291NP	-	○	■	▲

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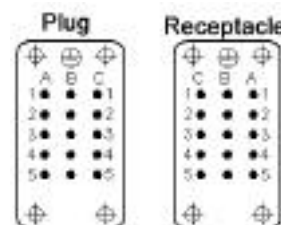


# Rectangular Connectors HD Series

## HD 15 CRIMP TERMINATED: MACHINE CONTACT INSERTS



View from cable side



All dimensions are in mm.

Contacts Sold Separately

Plug	Receptacle
11.2551	11.2561

These inserts fit in the HA 10 Series Housings which are on the following pages.

## MACHINED CONTACTS: DIAMETER 1.6MM



Bags of 100							
mm2	AWG	Silver			Gold		
		Pin	Socket	Stripping Length	Pin	Socket	Stripping Length
0.14 - 0.37	26 - 22	13.1620	13.1630	8	13.1625	13.1635	8
0.5	20	13.1621	13.1631	8	13.1626	13.1636	8
0.75 - 1.0	18	13.1622	13.1632	8	13.1627	13.1637	8
1.5	16	13.1623	13.1633	8	13.1628	13.1638	8
2.5	14	13.1624	13.1634	5.8	-	-	-

## TOOLS

WIRE GAUGE: 0.14 - 2.5 MM2



Locator  
11.1472



Crimp Dies  
11.1471



Crimp Tool  
11.1470



Removal Tool:  
11.1610

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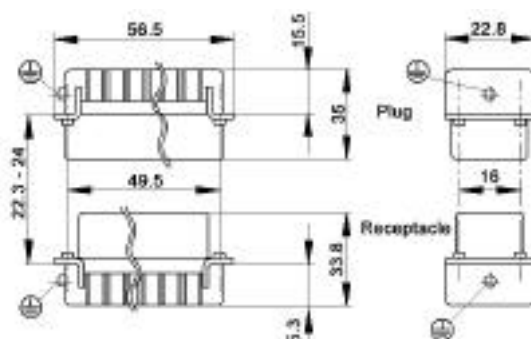


# Rectangular Connectors HD Series

## HD 15 CRIMP TERMINATED: STAMPED & FORMED CONTACT INSERTS



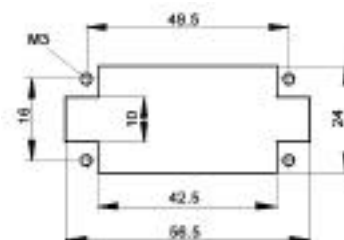
Contacts Sold Separately



All dimensions are in mm.

Plug	Receptacle
11.2550	11.2560

Panel Cut-Out



These inserts fit in the HA 10 Series Housings which are on the following pages.

## STAMPED & FORMED CONTACTS: DIAMETER 1.6MM



Reel feeds from left.

mm2	AWG	Bags of 100				Reels of 200		Stripping Length
		Silver		Gold		Silver		
		Pin	Socket	Pin	Socket	Pin	Socket	
0.14 - 0.5	26 - 20	11.2411	11.2311	11.2431	11.2331	11.2407	11.2307	2.5 - 0.5
0.5 - 1.5	20 - 16	11.2210	11.2361	11.2213	11.2381	11.2207	11.2357	3.5 - 0.5
1.5 - 2.5	16 - 14	11.2235	11.2285	-	-	11.2230	11.2280	3.5 - 0.5

## TOOLS

WIRE GAUGE: 0.14 - 2.5 MM2



Crimp Tool  
11.1470



Locator  
11.1473



Removal Tool:  
11.1610



Crimp Tool for Reel:  
11.1535

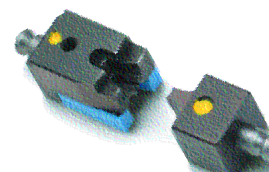


Crimp Dies

0.14-0.5:	11.147170
0.5-1.5:	11.147180
1.5-2.5:	11.147190

Crimp Dies for Reel:

0.14-0.5:	11.1536
0.5-1.5:	11.1537
1.5-2.5:	11.1538



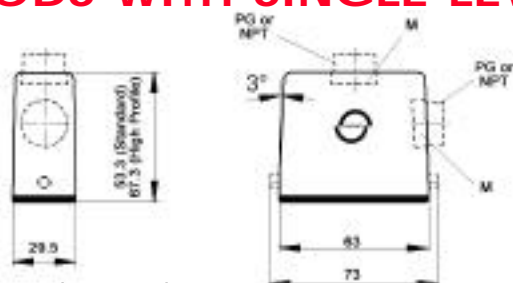
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# Rectangular Connectors HD Series

## HA 10 HOODS WITH SINGLE LEVER BOLTS

### TOP ENTRY



### SIDE ENTRY



All dimensions are in mm.

### STANDARD PROFILE

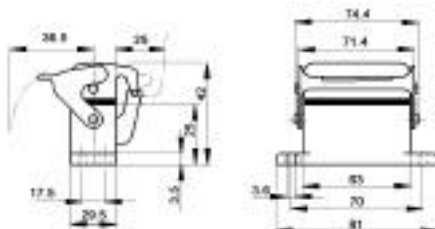
Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Top Entry	13.5	1/2"	20	10.4460	10.4460NP	19.4460	-	-	-	Orange	Yellow	Green
	16	1/2"	25	10.4461	10.4461NP	19.4461	70.4610	70.4610NP	79.4610	Yellow	Yellow	Green
Side Entry	16	1/2"	25	10.4450	10.4450NP	19.4450	70.4630	70.4630NP	79.4630	Yellow	Yellow	Green
	21	3/4"	25	10.4455	10.4455NP	19.4455	-	-	-	Green	Green	Green

### HIGH PROFILE

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Top Entry	16	1/2"	20	70.4602	70.4602NP	79.4602	70.4612	70.4612NP	79.4612	Yellow	Yellow	Green
	21	3/4"	25	70.4604	70.4604NP	79.4604	70.4614	70.4614NP	79.4614	Green	Green	Green
Side Entry	16	1/2"	20	70.4622	70.4622NP	79.4622	70.4632	70.4632NP	79.4632	Yellow	Yellow	Green
	21	3/4"	25	70.4624	70.4624NP	79.4624	70.4634	70.4634NP	79.4634	Green	Green	Green

Metric hoods do not come with a neck.

## HA 10 PANEL MOUNT BASES WITH SINGLE LEVER



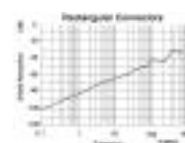
	Standard Grey Coating	Black Coating (NEMA 4X)
Without Dust Cover	10.4420	70.4425
With Dust Cover	70.4440	70.4445

All dimensions are in mm.

## EMC PROTECTION



	PG/NPT	Metric
Panel Mount Base	70.7000	79.7000
Surface Mount & Cable Coupler Hood	70.7020	79.7020

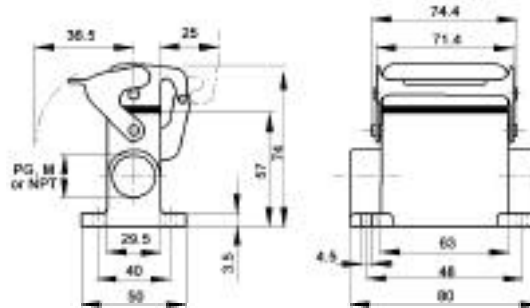


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# Rectangular Connectors HD Series

## HA 10 SURFACE MOUNT BASES WITH SINGLE LEVER



All dimensions are in mm.



### WITHOUT DUST COVER

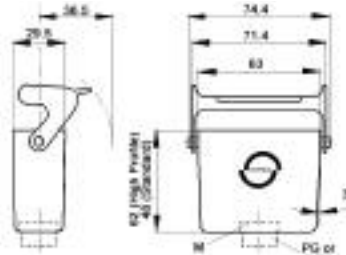
Number of Entries	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	
1 Entry	16	1/2"	20	10.4481	10.4481NP	19.4481	70.4472	70.4472NP	79.4472	PG NPT M
	21	3/4"	25	10.4480	10.4480NP	19.4480	70.4474	70.4474NP	79.4474	PG NPT M
2 Entries	16	1/2"	20	10.4501	10.4501NP	19.4501	70.4482	70.4482NP	79.4482	PG NPT M
	21	3/4"	25	10.4500	10.4500NP	19.4500	70.4484	70.4484NP	79.4484	PG NPT M

### WITH DUST COVER

Number of Entries	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	
1 Entry	16	1/2"	20	70.4552	70.4552NP	79.4552	70.4572	70.4572NP	79.4572	PG NPT M
	21	3/4"	25	70.4554	70.4554NP	79.4554	70.4574	70.4574NP	79.4574	PG NPT M
2 Entries	16	1/2"	20	70.4562	70.4562NP	79.4562	70.4582	70.4582NP	79.4582	PG NPT M
	21	3/4"	25	70.4564	70.4564NP	79.4564	70.4584	70.4584NP	79.4584	PG NPT M

## HA 10 CABLE COUPLER HOODS

PG



All dimensions are in mm.

METRIC



Profile	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	
Standard	13.5	1/2"	20	10.4390	10.4390NP	19.4390	-	-	-	PG NPT M
	16	1/2"	25	70.4500	70.4500NP	79.4500	70.4510	70.4510NP	79.4510	PG NPT M
High	21	3/4"	25	70.4504	70.4504NP	79.4504	70.4514	70.4514NP	79.4514	PG NPT M

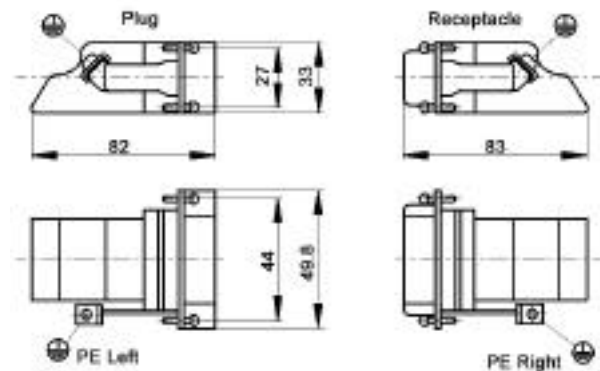
Metric hoods do not come with a neck.

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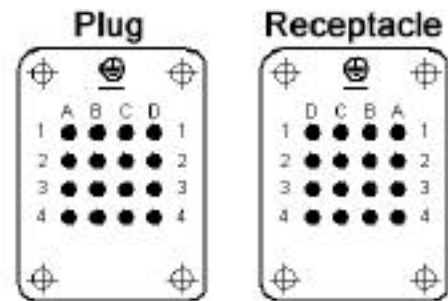


# Rectangular Connectors HD Series

## HD 16 TERMINAL BLOCK ADAPTER INSERTS



View from cable side

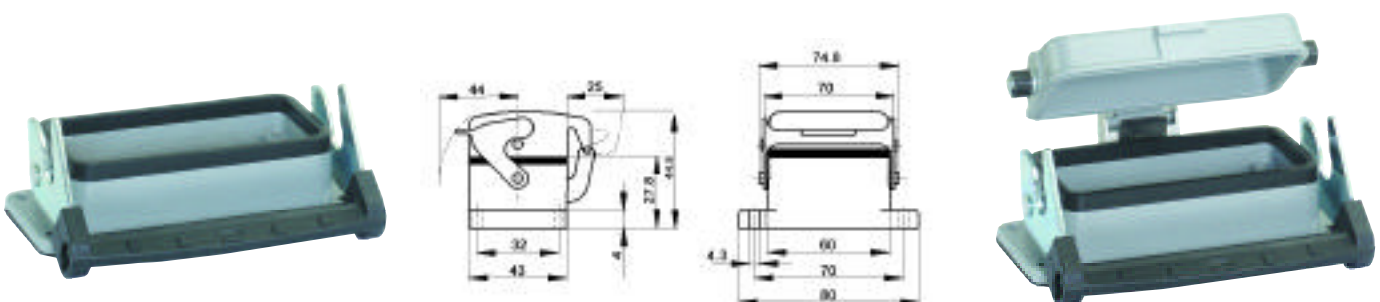


One terminal block insert mates with one screw terminated insert.

	Plug	Receptacle
Right Ground	71.3000	71.3011
Left Ground	71.3010	71.3001

These terminal block inserts only fit in HBE 6 panel mount bases.

## HBE 6 PANEL MOUNT BASES WITH SINGLE LEVER



All dimensions are in mm.

Description	Standard Grey Coating	Black Coating (NEMA 4X)
Panel Mount without Dust Cover	10.0030	70.0025
Panel Mount with Dust Cover	10.0040	70.0045



# Rectangular Connectors HD Series

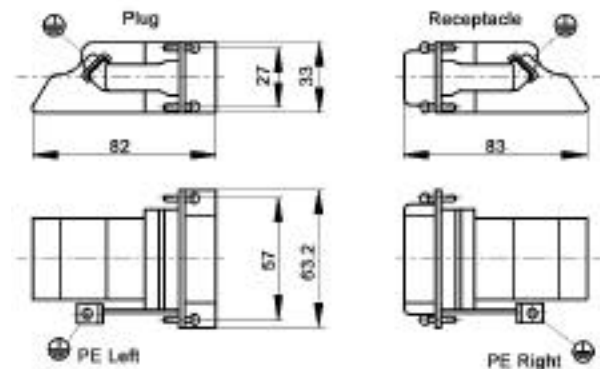
## HD 24 TERMINAL BLOCK ADAPTER INSERTS



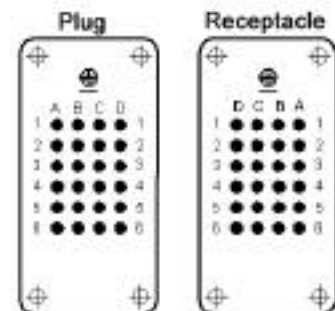
One terminal block insert mates with one screw terminated insert.

	Plug	Receptacle
Right Ground	71.3020	71.3031
Left Ground	71.3030	71.3021

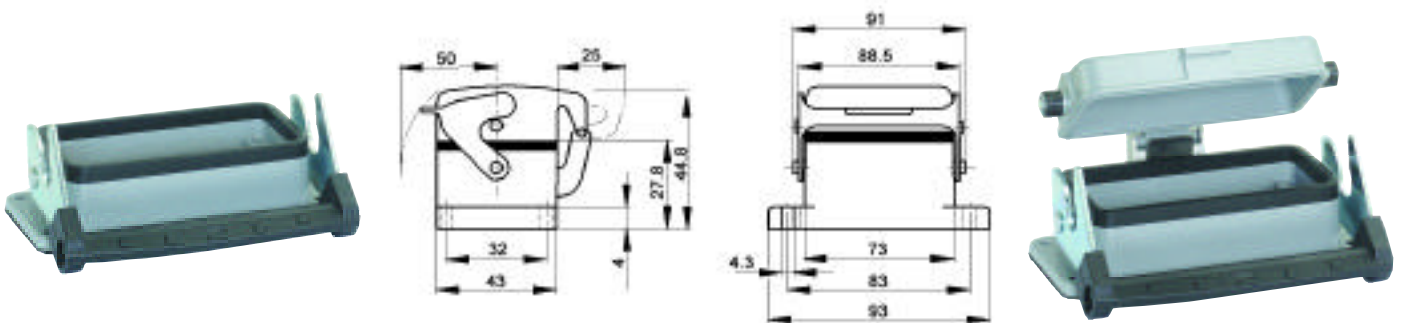
These terminal block inserts only fit in HBE 10 panel mount bases



View from cable side



## HBE 10 PANEL MOUNT BASES WITH SINGLE LEVER



All dimensions are in mm.

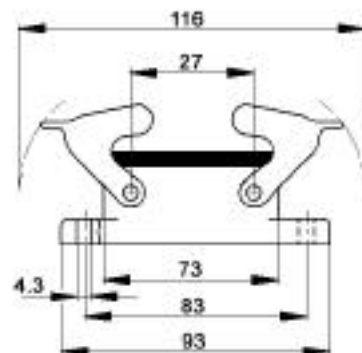
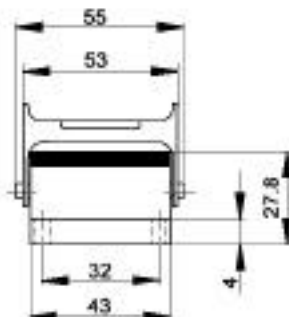
Description	Standard Grey Coating	Black Coating (NEMA 4X)
Panel Mount without Dust Cover	10.0329	70.0327
Panel Mount with Dust Cover	10.0339	70.0337

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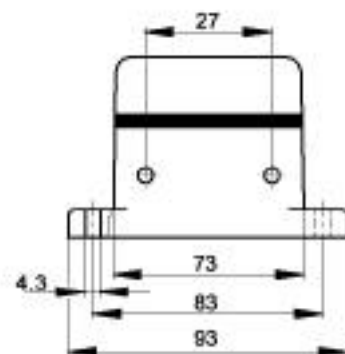
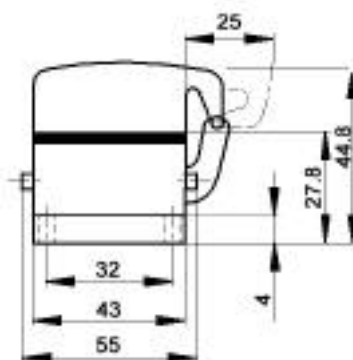
# Rectangular Connectors HD Series

## HBE 10 PANEL MOUNT BASES WITH DOUBLE LEVERS



Description	Standard Grey Coating	Black Coating (NEMA 4X)
Panel Mount without Dust Cover	10.0320	70.0325

## HBE 10 PANEL MOUNT BASES WITH DOUBLE LEVER BOLTS



Description	Standard Grey Coating	Black Coating (NEMA 4X)
Panel Mount with Dust Cover	10.0330	70.0335

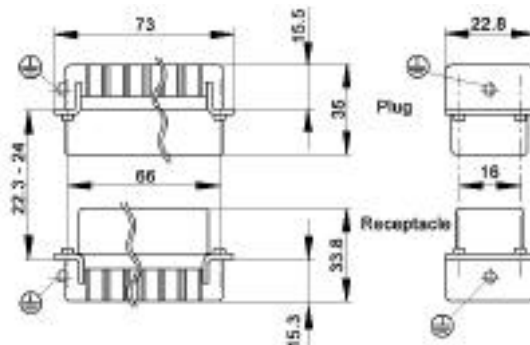
All dimensions are in mm.

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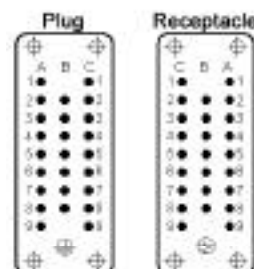


# Rectangular Connectors HD Series

## HD 25 CRIMP TERMINATED: MACHINE CONTACT INSERTS



View from cable side



All dimensions are in mm.

Contacts Sold Separately

Plug	Receptacle
11.2602	11.2612

These inserts fit in the HA 16 Series Housings which are on the following pages.

## MACHINED CONTACTS: DIAMETER 1.6MM



Bags of 100

mm2	AWG	Silver			Gold		
		Pin	Socket	Stripping Length	Pin	Socket	Stripping Length
0.14 - 0.37	26 - 22	13.1620	13.1630	8	13.1625	13.1635	8
0.5	20	13.1621	13.1631	8	13.1626	13.1636	8
0.75 - 1.0	18	13.1622	13.1632	8	13.1627	13.1637	8
1.5	16	13.1623	13.1633	8	13.1628	13.1638	8
2.5	14	13.1624	13.1634	5.8	-	-	-

## TOOLS

WIRE GAUGE: 0.14 - 2.5 MM2



Locator  
11.1472



Crimp Dies  
11.1471



Crimp Tool  
11.1470



Removal Tool:  
11.1610

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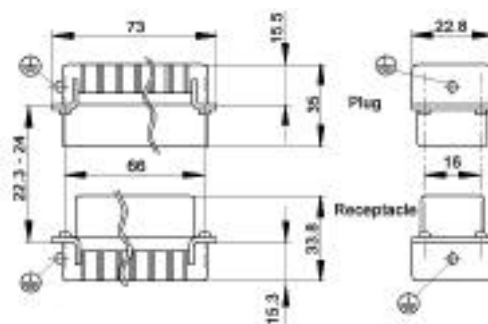


# Rectangular Connectors HD Series

## HD 25 CRIMP TERMINATED: STAMPED & FORMED CONTACT



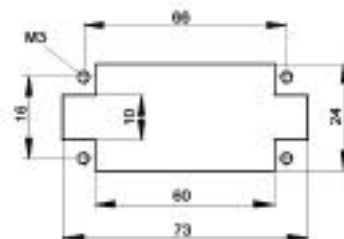
Contacts Sold Separately



All dimensions are in mm.

Plug	Receptacle
11.2600	11.2610

### Panel Cut-Out



These inserts fit in the HA 16 Series Housings which are on the following pages.

## STAMPED & FORMED CONTACTS: DIAMETER 1.6MM



Reel feeds from left.

mm2	AWG	Bags of 100				Reels of 200		Stripping Length
		Silver		Gold		Silver		
		Pin	Socket	Pin	Socket	Pin	Socket	
0.14 - 0.5	26 - 20	11.2411	11.2311	11.2431	11.2331	11.2407	11.2307	2.5 - 0.5
0.5 - 1.5	20 - 16	11.2210	11.2361	11.2213	11.2381	11.2207	11.2357	3.5 - 0.5
1.5 - 2.5	16 - 14	11.2235	11.2285	-	-	11.2230	11.2280	3.5 - 0.5

## TOOLS

### WIRE GAUGE: 0.14 - 2.5 MM2



Crimp Tool  
11.1470



Locator  
11.1473



Removal Tool:  
11.1610

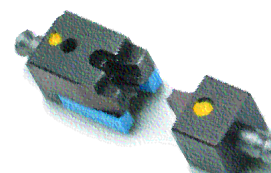


Crimp Tool for Reel:  
11.1535



Crimp Dies	
0.14-0.5:	11.147170
0.5-1.5:	11.147180
1.5-2.5:	11.147190

Crimp Dies for Reel:	
0.14-0.5:	11.1536
0.5-1.5:	11.1537
1.5-2.5:	11.1538



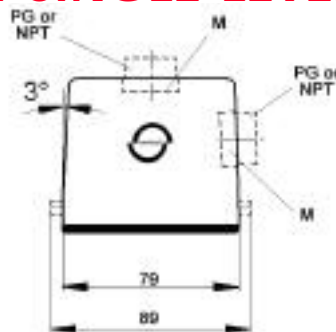
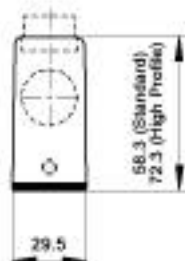
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# Rectangular Connectors HD Series

## HA 16 HOODS WITH SINGLE LEVER BOLTS

### TOP ENTRY



### SIDE ENTRY



All dimensions are in mm.

### STANDARD PROFILE

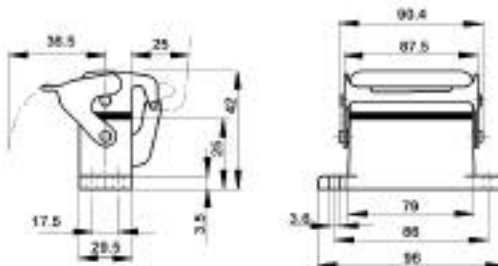
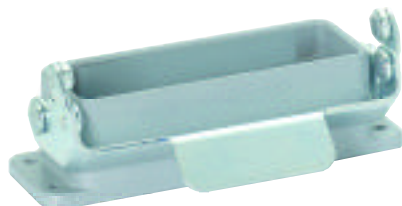
Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Top Entry	16	1/2"	20	10.5650	10.5650NP	19.5650	70.4910	70.4910NP	79.4910	Yellow	Yellow	Orange
	21	3/4"	25	10.5653	10.5653NP	19.5653	-	-	-	Green	Green	Green
Side Entry	16	1/2"	20	10.5640	10.5640NP	19.5640	70.4930	70.4930NP	79.4930	Yellow	Yellow	Orange
	21	3/4"	25	10.5645	10.5645NP	19.5645	-	-	-	Green	Green	Green

### HIGH PROFILE

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Top Entry	16	1/2"	20	70.4902	70.4902NP	79.4902	70.4912	70.4912NP	79.4912	Yellow	Yellow	Orange
	21	3/4"	25	70.4904	70.4904NP	79.4904	70.4914	70.4914NP	79.4914	Green	Green	Green
Side Entry	16	1/2"	20	70.4922	70.4922NP	79.4922	70.4932	70.4932NP	79.4932	Yellow	Yellow	Orange
	21	3/4"	25	70.4924	70.4924NP	79.4924	70.4934	70.4934NP	79.4934	Green	Green	Green

Metric hoods do not come with a neck.

## HA 16 PANEL MOUNT BASES WITH SINGLE LEVER



All dimensions are in mm.

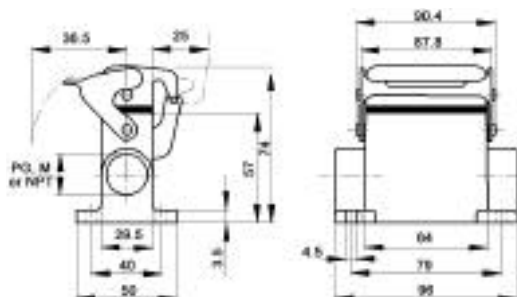
	Standard Grey Coating	Black Coating (NEMA 4X)
Without Dust Cover	10.4620	70.4725
With Dust Cover	70.4740	70.4745

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# Rectangular Connectors HD Series

## HA 16 SURFACE MOUNT BASES WITH SINGLE LEVER



### WITHOUT DUST COVER

Number of Entries	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
1 Entry	16	1/2"	20	10.5671	10.5671NP	19.5671	70.4772	70.4772NP	79.4772			
	21	3/4"	25	10.5670	10.5670NP	19.5670	70.4774	70.4774NP	79.4774			
2 Entries	16	1/2"	20	10.5681	10.5681NP	19.5681	70.4782	70.4782NP	79.4782			
	21	3/4"	25	10.5680	10.5680NP	19.5680	70.4784	70.4784NP	79.4784			

### WITH DUST COVER

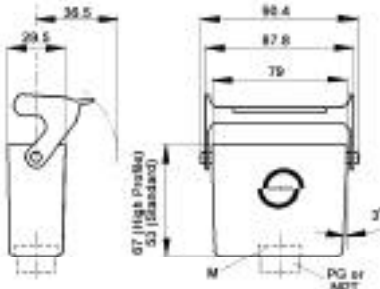
Number of Entries	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
1 Entry	16	1/2"	20	70.4852	70.4852NP	79.4852	70.4872	70.4872NP	79.4872			
	21	3/4"	25	70.4854	70.4854NP	79.4854	70.4874	70.4874NP	79.4874			
2 Entries	16	1/2"	20	70.4862	70.4862NP	79.4862	70.4882	70.4882NP	79.4882			
	21	3/4"	25	70.4864	70.4864NP	79.4864	70.4884	70.4884NP	79.4884			

## HA 16 CABLE COUPLER HOODS

PG



All dimensions are in mm.



METRIC



Profile	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Standard	16	1/2"	20	10.5630	10.5630NP	19.5630	70.4810	70.4810NP	79.4810			
			25	-	-	19.5632	-	-	-			
High	16	1/2"	20	70.4802	70.4802NP	79.4802	70.4812	70.4812NP	79.4812			
	21	3/4"	25	70.4804	70.4804NP	79.4804	70.4814	70.4814NP	79.4814			

Metric hoods do not come with a neck.

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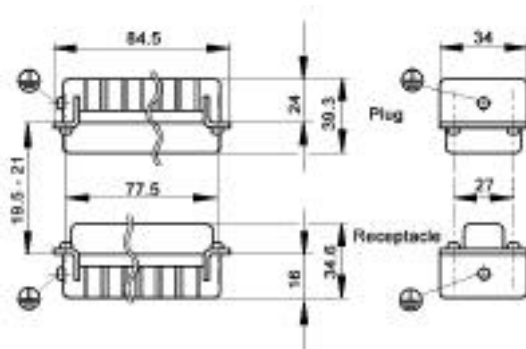


# Rectangular Connectors HD Series

## HD 40 CRIMP TERMINATED: MACHINE CONTACT INSERTS



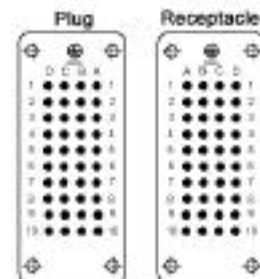
Contacts Sold Separately



All dimensions are in mm.

Plug	Receptacle
11.2652	11.2662

View from cable side



These inserts fit in the HBE 16 Series Housings which are on the following pages.

## MACHINED CONTACTS: DIAMETER 1.6MM



Bags of 100							
mm2	AWG	Silver			Gold		
		Pin	Socket	Stripping Length	Pin	Socket	Stripping Length
0.14 - 0.37	26 - 22	13.1620	13.1630	8	13.1625	13.1635	8
0.5	20	13.1621	13.1631	8	13.1626	13.1636	8
0.75 - 1.0	18	13.1622	13.1632	8	13.1627	13.1637	8
1.5	16	13.1623	13.1633	8	13.1628	13.1638	8
2.5	14	13.1624	13.1634	5.8	-	-	-

## TOOLS

WIRE GAUGE: 0.14 - 2.5 MM2



Locator  
11.1472



Crimp Dies  
11.1471



Crimp Tool  
11.1470



Removal Tool:  
11.1610

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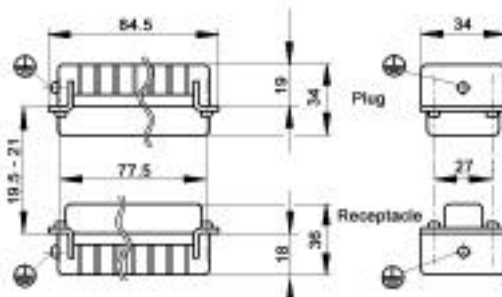


# Rectangular Connectors HD Series

## HD 40 CRIMP TERMINATED: STAMPED & FORMED CONTACT



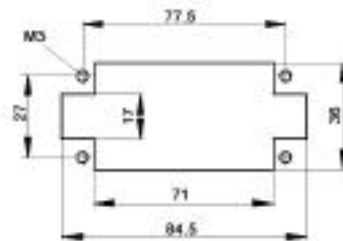
Contacts Sold Separately



All dimensions are in mm.

Plug	Receptacle
11.2650	11.2660

### Panel Cut-Out



These inserts fit in the HBE 16 Series Housings which are on the following pages.

## STAMPED & FORMED CONTACTS: DIAMETER 1.6MM



Reel feeds from left.

mm2	AWG	Bags of 100				Reels of 200		Stripping Length
		Silver		Gold		Silver		
		Pin	Socket	Pin	Socket	Pin	Socket	
0.14 - 0.5	26 - 20	11.2411	11.2311	11.2431	11.2331	11.2407	11.2307	2.5 - 0.5
0.5 - 1.5	20 - 16	11.2210	11.2361	11.2213	11.2381	11.2207	11.2357	3.5 - 0.5
1.5 - 2.5	16 - 14	11.2235	11.2285	-	-	11.2230	11.2280	3.5 - 0.5

## TOOLS

### WIRE GAUGE: 0.14 - 2.5 MM<sup>2</sup>



**Crimp Tool**  
11.1470



**Locator**  
11.1473



**Removal Tool:**  
11.1610



**Crimp Tool for Reel:**  
11.1535

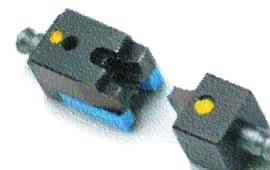


### Crimp Dies

0.14-0.5:	11.147170
0.5-1.5:	11.147180
1.5-2.5:	11.147190

### Crimp Dies for Reel:

0.14-0.5:	11.1536
0.5-1.5:	11.1537
1.5-2.5:	11.1538

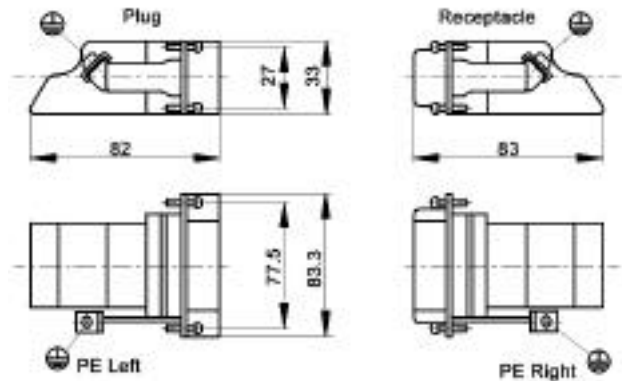


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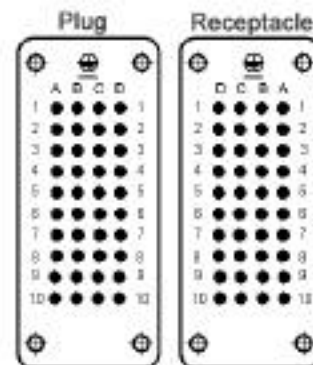
# Rectangular Connectors HD Series

## HD 40 TERMINAL BLOCK ADAPTER INSERTS



All dimensions are in mm.

View from cable side



These terminal block inserts only fit  
in HBE 16 panel mount bases

One terminal block insert mates with  
one screw terminated insert.

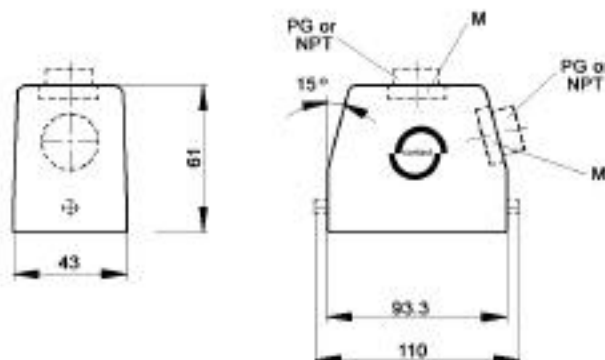
	Plug	Receptacle
Terminal Block Right Ground	71.3040	71.3051
Terminal Block Left Ground	71.3050	71.3041



# Rectangular Connectors HD Series

## HBE 16 HOODS WITH SINGLE LEVER BOLTS

TOP ENTRY



SIDE ENTRY



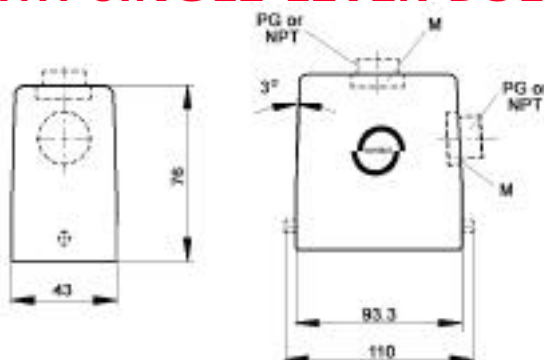
All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Top Entry	21	3/4"	25	10.0809	10.0809NP	19.0809	70.0990	70.0990NP	79.0990	●	■	▲
	29	1"	32	10.0909	10.0909NP	19.0909	-	-	-	●	■	▲
Side Entry	21	3/4"	25	10.0829	10.0829NP	19.0829	70.1090	70.1090NP	79.1090	●	■	▲
	29	1"	32	10.0929	10.0929NP	19.0929	-	-	-	●	■	▲

Metric hoods do not come with a neck.

## HBE 16 HIGH PROFILE HOODS WITH SINGLE LEVER BOLTS

TOP ENTRY



SIDE ENTRY



All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Top Entry	21	3/4"	25	70.0942	70.0942NP	79.0942	70.0992	70.0992NP	79.0992	●	■	▲
	29	1"	32	70.0944	70.0944NP	79.0944	70.0994	70.0994NP	79.0994	●	■	▲
Side Entry	21	3/4"	25	70.1042	70.1042NP	79.1042	70.1092	70.1092NP	79.1092	●	■	▲
	29	1"	32	70.1044	70.1044NP	79.1044	70.1094	70.1094NP	79.1094	●	■	▲

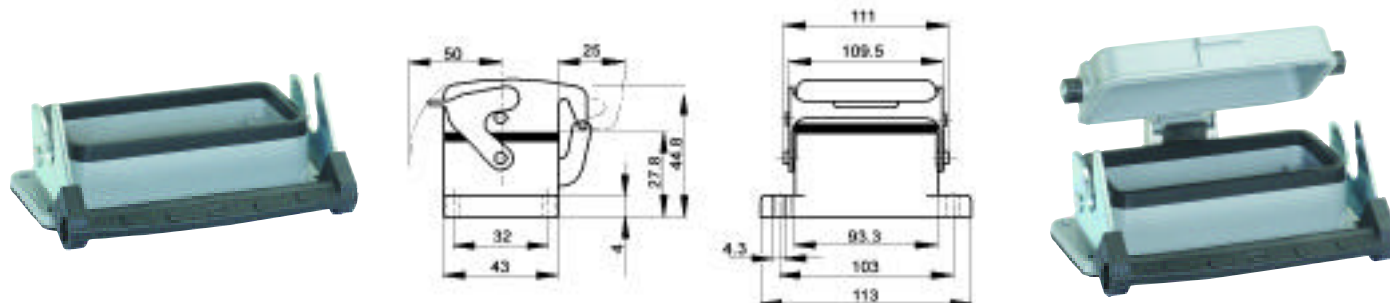
Metric hoods do not come with a neck.

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# Rectangular Connectors HD Series

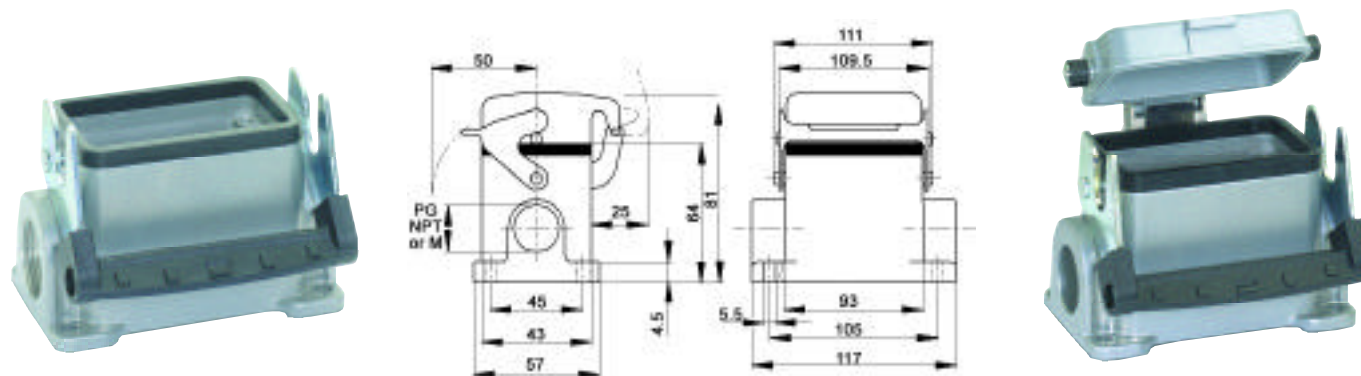
## HBE 16 PANEL MOUNT BASES WITH SINGLE LEVER



All dimensions are in mm.

Description	Standard Grey Coating	Black Coating (NEMA 4X)
Panel mount without dust cover	10.0729	70.0827
Panel mount with dust cover	10.0739	70.0837

## HBE 16 SURFACE MOUNT BASES WITH SINGLE LEVER



All dimensions are in mm.

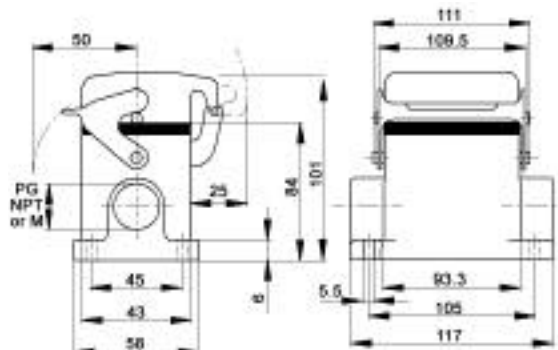
# of Entries	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	
2 Entries	21	3/4"	25	10.0759	10.0759NP	19.0759	70.1130	70.1130NP	79.1130	PG NPT M
1 Entry	21	3/4"	25	10.0749	10.0749NP	19.0749	70.1120	70.1120NP	79.1120	PG NPT M
2 Entries with dust cover	21	3/4"	25	10.0789	10.0789NP	19.0789	70.1170	70.1170NP	79.1170	PG NPT M
1 Entry with dust cover	21	3/4"	25	10.0769	10.0769NP	19.0769	70.1160	70.1160NP	79.1160	PG NPT M

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# Rectangular Connectors HD Series

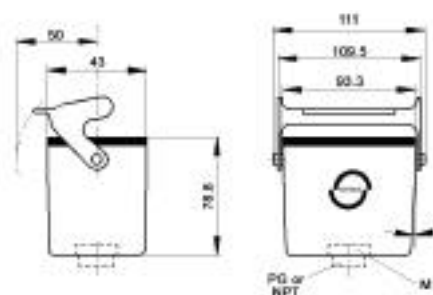
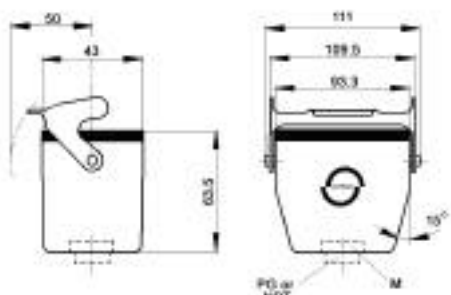
## HBE 16 HIGH PROFILE SURFACE MOUNT BASES WITH SINGLE LEVER



All dimensions are in mm.

# of Entries	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
2 Entries	21	3/4"	25	70.1112	70.1112NP	79.1112	70.1132	70.1132NP	79.1132	●	■	▲
	29	1"	32	70.1114	70.1114NP	79.1114	70.1134	70.1134NP	79.1134	●	■	▲
1 Entry	21	3/4"	25	70.1102	70.1102NP	79.1102	70.1122	70.1122NP	79.1122	●	■	▲
	29	1"	32	70.1104	70.1104NP	79.1104	70.1124	70.1124NP	79.1124	●	■	▲
2 Entries with dust cover	21	3/4"	25	70.1152	70.1152NP	79.1152	70.1172	70.1172NP	79.1172	●	■	▲
	29	1"	32	70.1154	70.1154NP	79.1154	70.1174	70.1174NP	79.1174	●	■	▲
1 Entry with dust cover	21	3/4"	25	70.1142	70.1142NP	79.1142	70.1162	70.1162NP	79.1162	●	■	▲
	29	1"	32	70.1144	70.1144NP	79.1144	70.1164	70.1164NP	79.1164	●	■	▲

## HBE 16 CABLE COUPLER HOODS WITH SINGLE LEVER STANDARD PROFILE HIGH PROFILE



All dimensions are in mm.

Profile	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Standard	21	3/4"	25	10.0869	10.0869NP	19.0869	70.0930	70.0930NP	79.0930	●	■	▲
	29	1"	32	10.0969	10.0969NP	19.0969	70.0969	70.0969NP	79.0969	●	■	▲
High	21	3/4"	25	70.0922	70.0922NP	79.0922	70.0932	70.0932NP	79.0932	●	■	▲
	29	1"	32	70.0924	70.0924NP	79.0924	70.0934	70.0934NP	79.0934	●	■	▲

Metric hoods do not come with a neck.

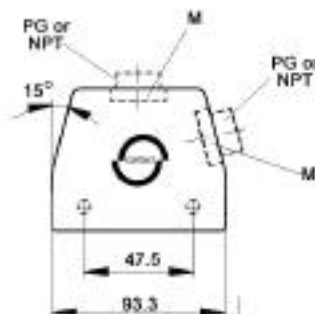
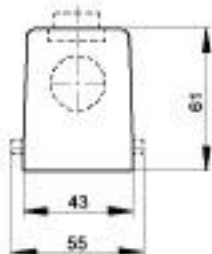
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# Rectangular Connectors HD Series

## HBE 16 HOODS WITH DOUBLE LEVER BOLTS

TOP ENTRY



SIDE ENTRY



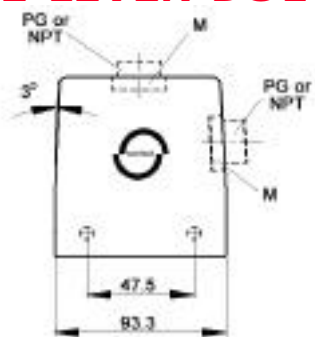
All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Top Entry	21	3/4"	25	10.0800	10.0800NP	19.0800	70.1010	70.1010NP	79.1010	●	■	▲
	29	1"	32	10.0900	10.0900NP	19.0900	-	-	-	●	■	▲
Side Entry	21	3/4"	25	10.0820	10.0820NP	19.0820	70.1030	70.1030NP	79.1030	●	■	▲
	29	1"	32	10.0920	10.0920NP	19.0920	-	-	-	●	■	▲

Metric hoods do not come with a neck.

## HBE 16 HIGH PROFILE HOODS WITH DOUBLE LEVER BOLTS

TOP ENTRY



SIDE ENTRY



All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Top Entry	21	3/4"	25	70.1002	70.1002NP	79.1002	70.1012	70.1012NP	79.1012	●	■	▲
	29	1"	32	70.1004	70.1004NP	79.1004	70.1014	70.1014NP	79.1014	●	■	▲
Side Entry	21	3/4"	25	70.1022	70.1022NP	79.1022	70.1032	70.1032NP	79.1032	●	■	▲
	29	1"	32	70.1024	70.1024NP	79.1024	70.1034	70.1034NP	79.1034	●	■	▲

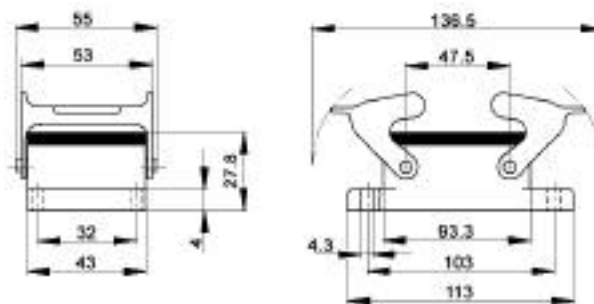
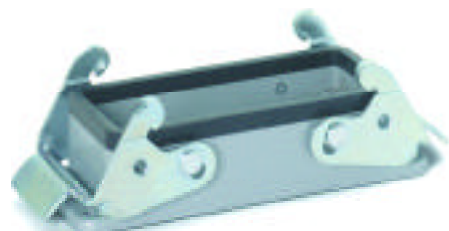
Metric hoods do not come with a neck.

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# Rectangular Connectors HD Series

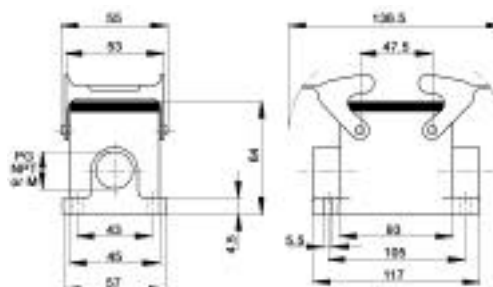
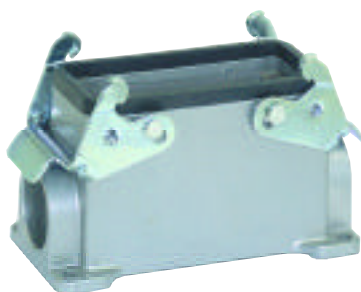
## HBE 16 PANEL MOUNT BASES WITH DOUBLE LEVERS



All dimensions are in mm.

Description	Standard Grey Coating	Black Coating (NEMA 4X)
Panel Mount without Dust Cover	10.0720	70.0825

## HBE 16 SURFACE MOUNT BASES WITH DOUBLE LEVERS



All dimensions are in mm.

Mounting Type	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
2 Entries	21	3/4"	25	10.0750	10.0750NP	19.0750	70.0880	70.0880NP	79.0880	●	■	▲
1 Entry	21	3/4"	25	10.0740	10.0740NP	19.0740	70.0870	70.0870NP	79.0870	●	■	▲

## EMC PROTECTION



	PG/NPT	Metric
Panel Mount Base	70.3502	79.3502
Surface Mount & Cable Coupler Hood	70.3522	79.3522

EMC Shielding is retrofittable.

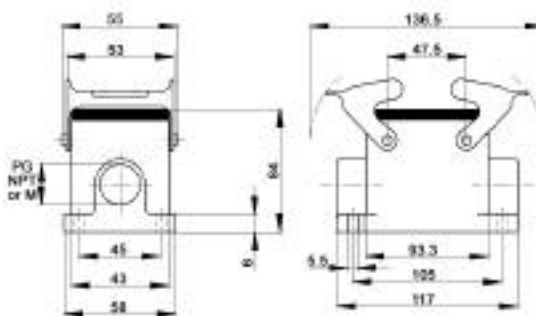


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# Rectangular Connectors HD Series

## HBE 16 HIGH PROFILE BASES WITH DOUBLE LEVERS

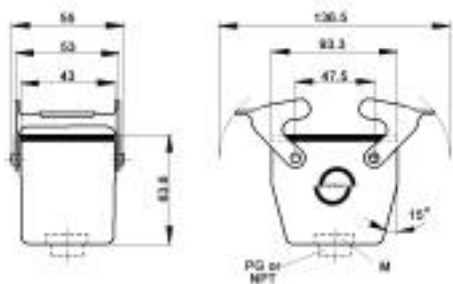


All dimensions are in mm.

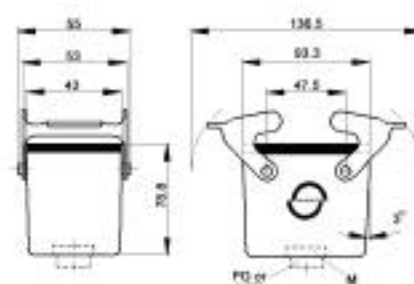
# of Entries	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
2 Entries	21	3/4"	25	70.0862	70.0862NP	79.0862	70.0882	70.0882NP	79.0882	●	■	▲
	29	1"	32	70.0864	70.0864NP	79.0864	70.0884	70.0884NP	79.0884	●	■	▲
1 Entry	21	3/4"	25	70.0852	70.0852NP	79.0852	70.0872	70.0872NP	79.0872	●	■	▲
	29	1"	32	70.0854	70.0854NP	79.0854	70.0874	70.0874NP	79.0874	●	■	▲

## HBE 16 CABLE COUPLER HOODS WITH DOUBLE LEVERS

### STANDARD PROFILE



### HIGH PROFILE



All dimensions are in mm.

Profile	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Standard	21	3/4"	25	10.0860	10.0860NP	19.0860	70.0910	70.0910NP	79.0910	●	■	▲
	29	1"	32	10.0960	10.0960NP	19.0960	-	-	-	●	■	▲
High	21	3/4"	25	70.0902	70.0902NP	79.0902	70.0912	70.0912NP	79.0912	●	■	▲
	29	1"	32	70.0904	70.0904NP	79.0904	70.0914	70.0914NP	79.0914	●	■	▲

Metric hoods do not come with a neck.

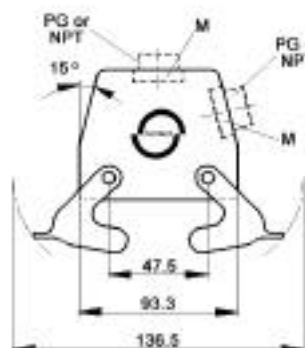
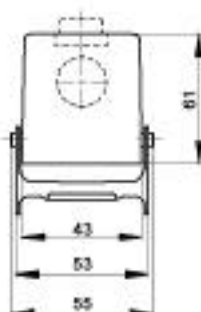
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# Rectangular Connectors HD Series

## HBE 16 HOODS WITH DOUBLE LEVERS

TOP ENTRY



SIDE ENTRY



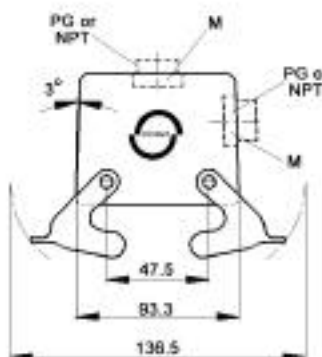
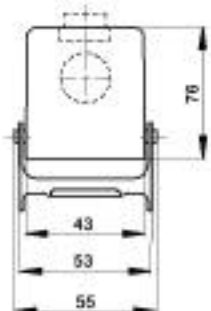
All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Top Entry	21	3/4"	25	10.0810	10.0810NP	19.0810	70.1060	70.1060NP	79.1060	●	■	▲
	29	1"	32	10.0910	10.0910NP	19.0910	-	-	-	●	■	▲
Side Entry	21	3/4"	25	10.0830	10.0830NP	19.0830	70.1080	70.1080NP	79.1080	●	■	▲
	29	1"	32	10.0930	10.0930NP	19.0930	-	-	-	●	■	▲

Metric hoods do not come with a neck.

## HBE 16 HIGH PROFILE HOODS WITH DOUBLE LEVERS

TOP ENTRY



SIDE ENTRY



All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Top Entry	21	3/4"	25	70.1052	70.1052NP	79.1052	70.1062	70.1062NP	79.1062	●	■	▲
	29	1"	32	70.1054	70.1054NP	79.1054	70.1064	70.1064NP	79.1064	●	■	▲
Side Entry	21	3/4"	25	70.1072	70.1072NP	79.1072	70.1082	70.1082NP	79.1082	●	■	▲
	29	1"	32	70.1074	70.1074NP	79.1074	70.1084	70.1084NP	79.1084	●	■	▲

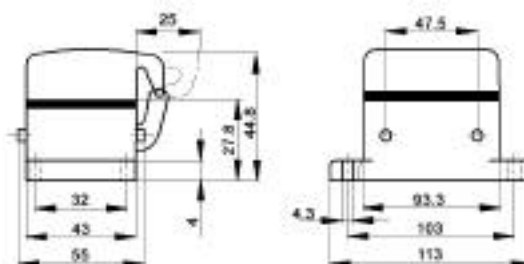
Metric hoods do not come with a neck.

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# Rectangular Connectors HD Series

## HBE 16 PANEL MOUNT BASES WITH DOUBLE LEVER BOLTS

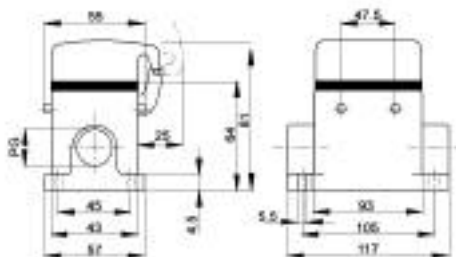


All dimensions are in mm.

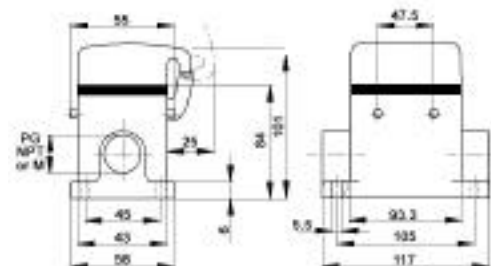
Description	Standard Grey Coating	Black Coating (NEMA 4X)
Panel Mount with Dust Cover	10.0730	70.0835
Panel Mount without Dust Cover	10.0731	-

## HBE 16 SURFACE MOUNT BASES WITH DOUBLE LEVER BOLTS

### STANDARD PROFILE



### HIGH PROFILE



All dimensions are in mm.

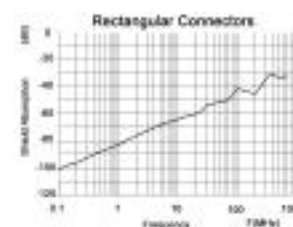
# of Entries	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
2 Entries	21	3/4"	25	70.0960	70.0960NP	79.0960	70.0980	70.0980NP	79.0980	●	■	▲
1 Entry	21	3/4"	25	10.0760	10.0760NP	19.0970	70.0970	70.0970NP	79.0970	●	■	▲
High Profile with 2 Entries	21	3/4"	25	70.0962	70.0962NP	79.0962	70.0982	70.0982NP	79.0982	●	■	▲
	29	1"	32	70.0964	70.0964NP	79.0964	70.0984	70.0984NP	79.0984	●	■	▲
High Profile with 1 Entry	21	3/4"	25	70.0952	70.0952NP	79.0952	70.0972	70.0972NP	79.0972	●	■	▲
	29	1"	32	70.0954	70.0954NP	79.0954	70.0974	70.0974NP	79.0974	●	■	▲

## EMC PROTECTION



	PG/NPT	Metric
Panel Mount Base	70.3502	79.3502
Surface Mount & Cable Coupler Hood	70.3522	79.3522

EMC Shielding is retrofitable.

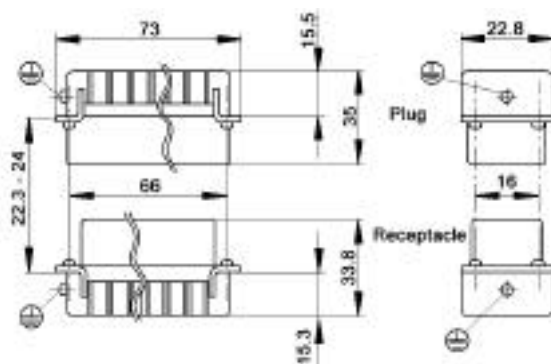


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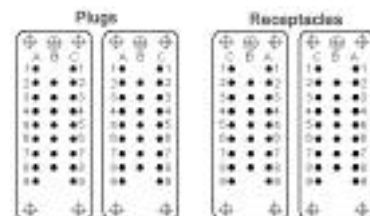


# Rectangular Connectors HD Series

## HD 50 CRIMP TERMINATED: MACHINE CONTACT INSERTS



View from cable side



Contacts Sold Separately

All dimensions are in mm.

Plug	Receptacle
11.2602 (2X)	11.2612 (2X)

These inserts fit in the HA 32 Series Housings which are on the following pages.

## MACHINED CONTACTS: DIAMETER 1.6MM



Bags of 100							
mm2	AWG	Silver			Gold		
		Pin	Socket	Stripping Length	Pin	Socket	Stripping Length
0.14 - 0.37	26 - 22	13.1620	13.1630	8	13.1625	13.1635	8
0.5	20	13.1621	13.1631	8	13.1626	13.1636	8
0.75 - 1.0	18	13.1622	13.1632	8	13.1627	13.1637	8
1.5	16	13.1623	13.1633	8	13.1628	13.1638	8
2.5	14	13.1624	13.1634	5.8	-	-	-

## TOOLS

WIRE GAUGE: 0.14 - 2.5 MM2



Locator  
11.1472



Crimp Dies  
11.1471



Crimp Tool  
11.1470



Removal Tool:  
11.1610

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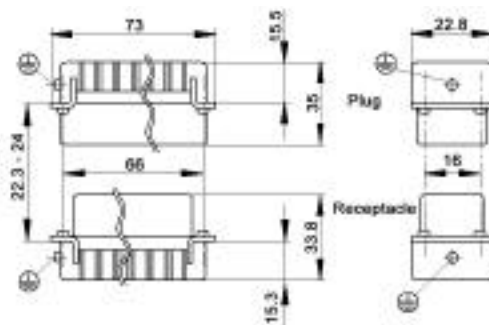


# Rectangular Connectors HD Series

## HD 50 CRIMP TERMINATED: STAMPED & FORMED CONTACT



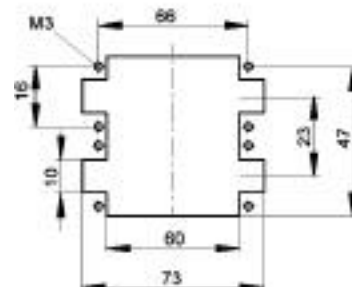
Contacts Sold Separately



All dimensions are in mm.

Plug	Receptacle
11.2600 (2X)	11.2610 (2X)

### Panel Cut-Out



These inserts fit in the HA 32 Series Housings which are on the following pages.

## STAMPED & FORMED CONTACTS: DIAMETER 1.6MM



Reel feeds from left.

mm2	AWG	Bags of 100				Reels of 200		Stripping Length
		Silver		Gold		Silver		
		Pin	Socket	Pin	Socket	Pin	Socket	
0.14 - 0.5	26 - 20	11.2411	11.2311	11.2431	11.2331	11.2407	11.2307	2.5 - 0.5
0.5 - 1.5	20 - 16	11.2210	11.2361	11.2213	11.2381	11.2207	11.2357	3.5 - 0.5
1.5 - 2.5	16 - 14	11.2235	11.2285	-	-	11.2230	11.2280	3.5 - 0.5

## TOOLS

### WIRE GAUGE: 0.14 - 2.5 MM2



Crimp Tool  
11.1470



Locator  
11.1473



Removal Tool:  
11.1610



Crimp Tool for Reel:  
11.1535

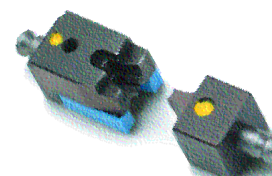


### Crimp Dies

0.14-0.5:	11.147170
0.5-1.5:	11.147180
1.5-2.5:	11.147190

### Crimp Dies for Reel:

0.14-0.5:	11.1536
0.5-1.5:	11.1537
1.5-2.5:	11.1538



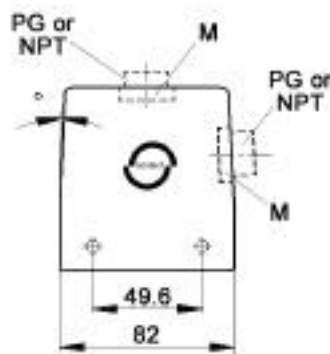
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# Rectangular Connectors HD Series

## HA 32 HOODS WITH DOUBLE LEVER BOLTS

### TOP ENTRY



### SIDE ENTRY

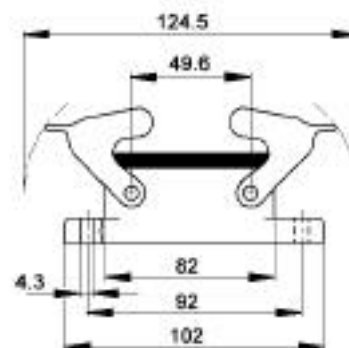
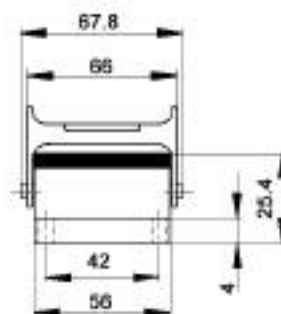


All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	
Top Entry	21	3/4"	25	10.5820	10.5820NP	19.5820	70.5212	70.5212NP	79.5212	PG NPT M
	29	1"	32	10.5830	10.5830NP	19.5830	70.5214	70.5214NP	79.5214	PG NPT M
Side Entry	21	3/4"	25	10.5760	10.5760NP	19.5760	70.5232	70.5232NP	79.5232	PG NPT M
	29	1"	32	10.5770	10.5770NP	19.5770	70.5234	70.5234NP	79.5234	PG NPT M

Metric hoods do not come with a neck.

## HA 32 PANEL MOUNT BASES WITH DOUBLE LEVERS



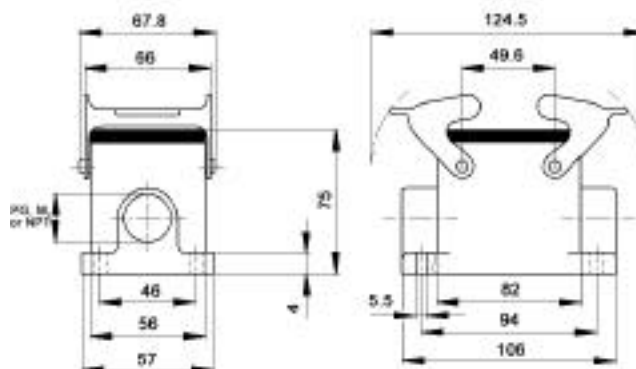
All dimensions are in mm.

Standard Grey Coating	Black Coating (NEMA 4X)
10.4720	70.5025



# Rectangular Connectors HD Series

## HA 32 SURFACE MOUNT BASES WITH DOUBLE LEVERS



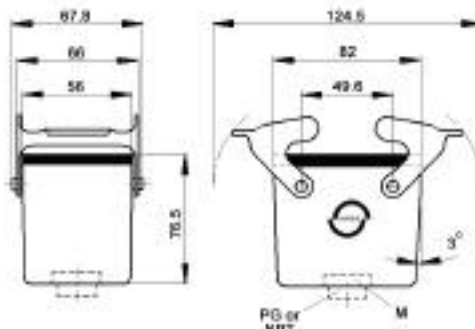
All dimensions are in mm.

Number of Entries	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
1 Entry	21	3/4"	25	10.4740	10.4740NP	19.4740	70.5072	70.5072NP	79.5072	●	■	▲
	29	1"	32	10.4741	10.4741NP	19.4741	70.5074	70.5074NP	79.5074	●	■	▲
2 Entries	21	3/4"	25	10.4820	10.4820NP	19.4820	70.5082	70.5082NP	79.5082	●	■	▲
	29	1"	32	10.4821	10.4821NP	19.4821	70.5084	70.5084NP	79.5084	●	■	▲

Metric bases do not come with a neck.

## HA 32 CABLE COUPLER HOODS

PG



METRIC



All dimensions are in mm.

Profile	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Standard	21	3/4"	25	10.5880	10.5880NP	19.5880	70.5110	70.5110NP	79.5110	●	■	▲
	29	1"	32	10.5885	10.5885NP	19.5885	70.5112	70.5112NP	79.5112	●	■	▲

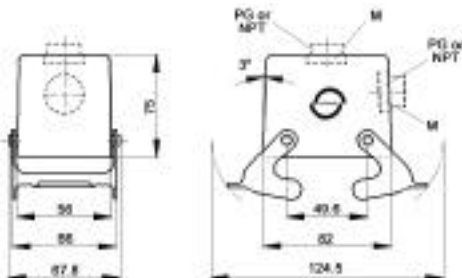
Metric hoods do not come with a neck.

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## 1

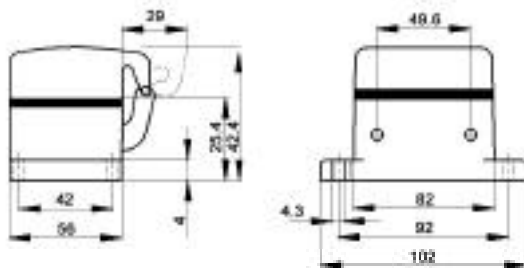
## TOP ENTRY



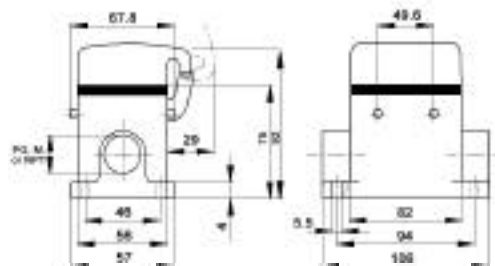
## SIDE ENTRY



Metric hoods do not come with a neck.















## HA 32 SURFACE MOUNT BASES WITH DOUBLE LEVER BOLTS



Metric bases  
do not come  
with a neck.

All dimensions are in mm.

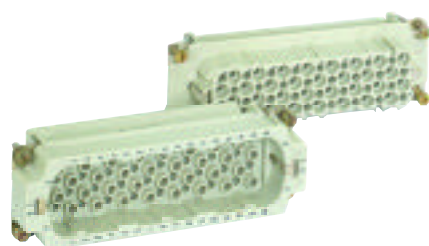
Number of Entries	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG	NPT	Metric	PG	NPT	Metric	PG	NPT	M
				Part #	Part #	Part #	Part #	Part #				
1 Entry	21	3/4"	25	70.5152	70.5152NP	79.5152	70.5172	70.5172NP	79.5172			
	29	1"	32	70.5154	70.5154NP	79.5154	70.5174	70.5174NP	79.5174			
2 Entries	21	3/4"	25	70.5162	70.5162NP	79.5162	70.5182	70.5182NP	79.5182			
	29	1"	32	70.5164	70.5164NP	79.5164	70.5184	70.5184NP	79.5184			

198

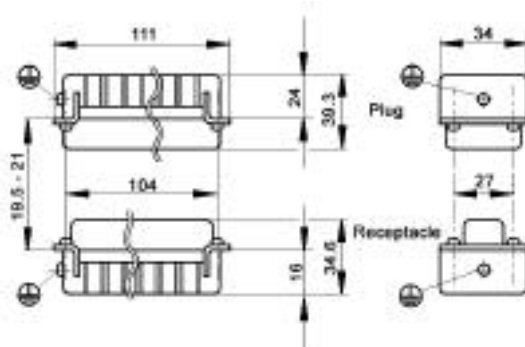


# Rectangular Connectors HD Series

## HD 64 CRIMP TERMINATED: MACHINE CONTACT INSERTS

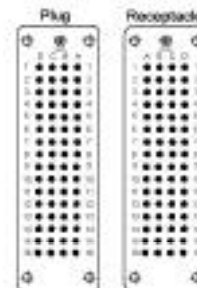


Contacts Sold Separately



All dimensions are in mm.

View from cable side



These inserts fit in the HBE 24 Series Housings which are on the following pages.

Plug	Receptacle
11.2720	11.2730

## MACHINED CONTACTS: DIAMETER 1.6MM



Bags of 100							
mm2	AWG	Silver			Gold		
		Pin	Socket	Stripping Length	Pin	Socket	Stripping Length
0.14 - 0.37	26 - 22	13.1620	13.1630	8	13.1625	13.1635	8
0.5	20	13.1621	13.1631	8	13.1626	13.1636	8
0.75 - 1.0	18	13.1622	13.1632	8	13.1627	13.1637	8
1.5	16	13.1623	13.1633	8	13.1628	13.1638	8
2.5	14	13.1624	13.1634	5.8	-	-	-

## TOOLS

WIRE GAUGE: 0.14 - 2.5 MM2



Locator  
11.1472



Crimp Dies  
11.1471



Crimp Tool  
11.1470



Removal Tool:  
11.1610

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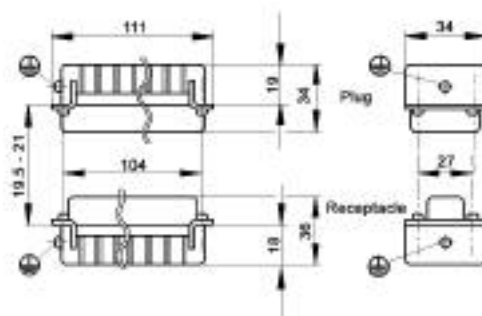


# Rectangular Connectors HD Series

## HD 64 CRIMP TERMINATED: STAMPED & FORMED CONTACT



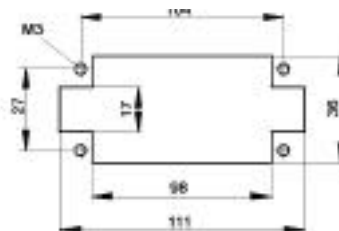
Contacts Sold Separately



All dimensions are in mm.

Plug	Receptacle
11.2700	11.2710

### Panel Cut-Out



These inserts fit in the HBE 24 Series Housings which are on the following pages.

## STAMPED & FORMED CONTACTS: DIAMETER 1.6MM



Reel feeds from left.

mm2	AWG	Bags of 100				Reels of 200		Stripping Length
		Silver		Gold		Silver		
		Pin	Socket	Pin	Socket	Pin	Socket	
0.14 - 0.5	26 - 20	11.2411	11.2311	11.2431	11.2331	11.2407	11.2307	2.5 - 0.5
0.5 - 1.5	20 - 16	11.2210	11.2361	11.2213	11.2381	11.2207	11.2357	3.5 - 0.5
1.5 - 2.5	16 - 14	11.2235	11.2285	-	-	11.2230	11.2280	3.5 - 0.5

## TOOLS

### WIRE GAUGE: 0.14 - 2.5 MM2



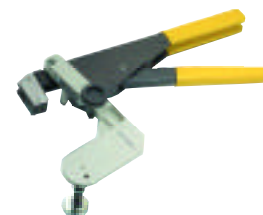
Crimp Tool  
11.1470



Locator  
11.1473



Removal Tool:  
11.1610



Crimp Tool for Reel:  
11.1535

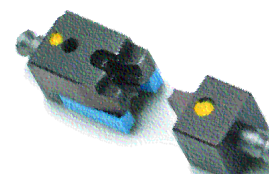


### Crimp Dies

0.14-0.5:	11.147170
0.5-1.5:	11.147180
1.5-2.5:	11.147190

### Crimp Dies for Reel:

0.14-0.5:	11.1536
0.5-1.5:	11.1537
1.5-2.5:	11.1538



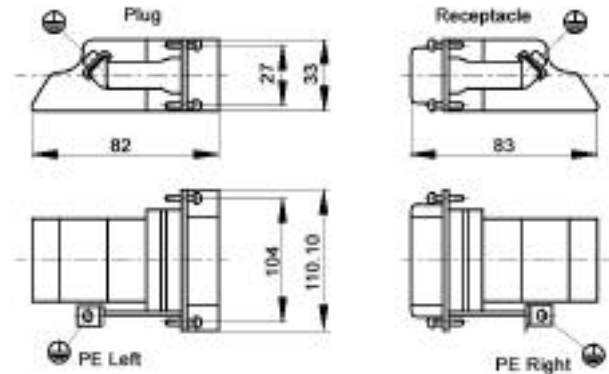
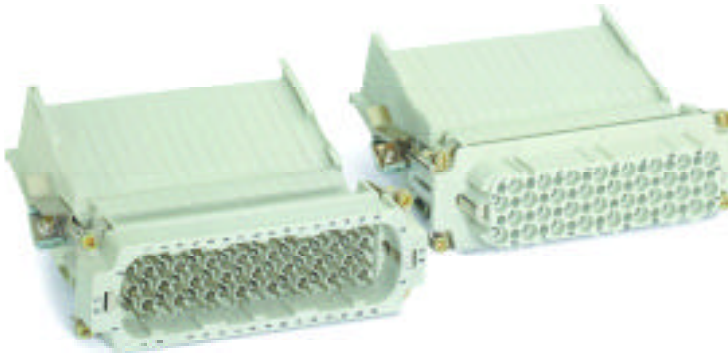
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# Rectangular Connectors HD Series

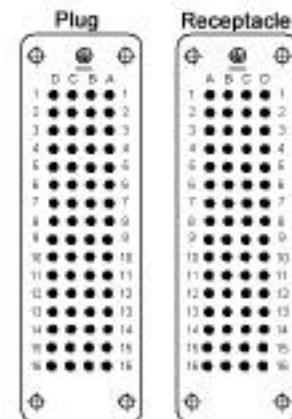
## HD 64 TERMINAL BLOCK ADAPTER INSERTS

1



All dimensions are in mm.

### View from cable side



These terminal block inserts only fit  
in HBE 24 panel mount bases

One terminal block insert mates with  
one screw terminated insert.

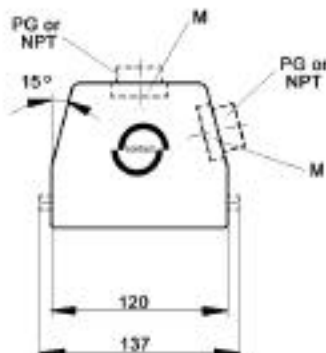
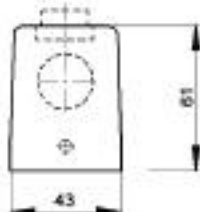
	Plug	Receptacle
Terminal Block Right Ground	71.3060	71.3071
Terminal Block Left Ground	71.3070	71.3061



# Rectangular Connectors HD Series

## HBE 24 HOODS WITH SINGLE LEVER BOLTS

TOP ENTRY



SIDE ENTRY



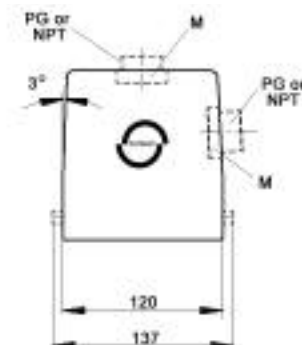
All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	
Top Entry	21	3/4"	25	10.1219	10.1219NP	19.1219	70.1490	70.1490NP	79.1490	PG NPT M
	29	1"	32	10.1119	10.1119NP	19.1119	70.1492	70.1492NP	79.1492	PG NPT M
Side Entry	21	3/4"	25	10.1139	10.1139NP	19.1139	70.1590	70.1590NP	79.1590	PG NPT M
	29	1"	32	10.1239	10.1239NP	19.1239	70.1592	70.1592NP	79.1592	PG NPT M

Metric hoods do not come with a neck.

## HBE 24 HIGH PROFILE HOODS WITH SINGLE LEVER BOLTS

TOP ENTRY



SIDE ENTRY



All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	
Top Entry	21	3/4"	25	70.1444	70.1444NP	79.1444	70.1494	70.1494NP	79.1494	PG NPT M
	29	1"	32	70.1446	70.1446NP	79.1446	70.1496	70.1496NP	79.1496	PG NPT M
Side Entry	21	3/4"	25	70.1544	70.1544NP	79.1544	70.1594	70.1594NP	79.1594	PG NPT M
	29	1"	32	70.1546	70.1546NP	79.1546	70.1596	70.1596NP	79.1596	PG NPT M

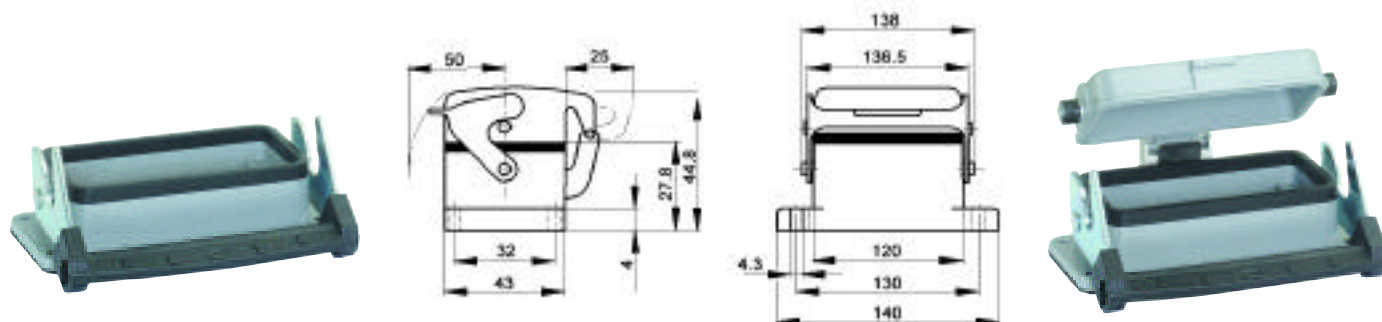
Metric hoods do not come with a neck.

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# Rectangular Connectors HD Series

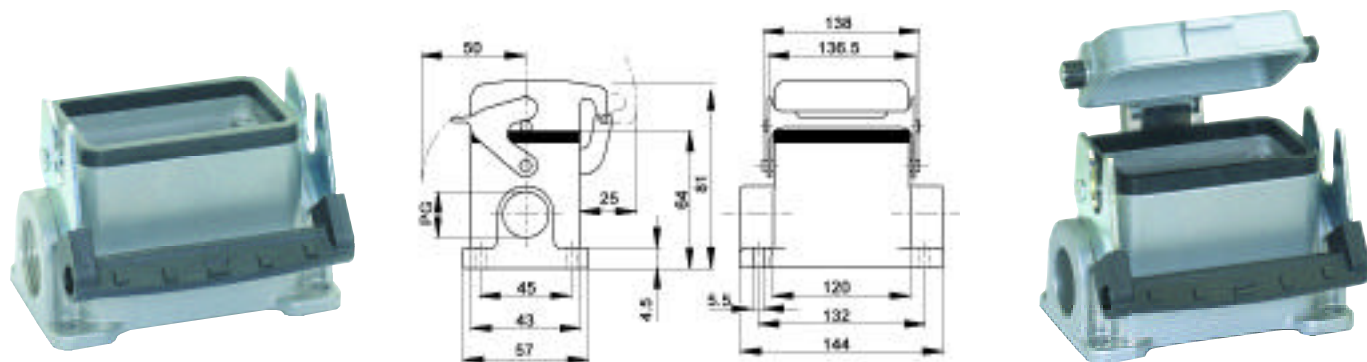
## HBE 24 PANEL MOUNT BASES WITH SINGLE LEVER



All dimensions are in mm.

Description	Standard Grey Coating	Black Coating (NEMA 4X)
Panel Mount without dust cover	10.1029	70.1327
Panel Mount with dust cover	10.1039	70.1337

## HBE 24 SURFACE MOUNT BASES WITH SINGLE LEVER



All dimensions are in mm.

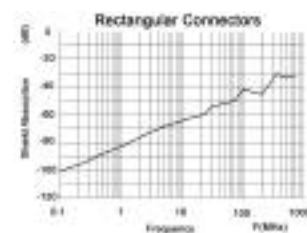
# of Entries	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
2 Entries	21	3/4"	25	10.1059	10.1059NP	19.1059	70.1630	70.1630NP	79.1630	●	■	▲
1 Entry	21	3/4"	25	10.1049	10.1049NP	19.1049	70.1620	70.1620NP	79.1620	●	■	▲
2 with cover	21	3/4"	25	10.1099	10.1099NP	19.1099	70.1670	70.1670NP	79.1670	●	■	▲
1 with cover	21	3/4"	25	10.1079	10.1079NP	19.1079	70.1660	70.1660NP	79.1660	●	■	▲

## EMC PROTECTION



	PG/NPT	Metric
Panel Mount Base	70.3503	79.3503
Surface Mount & Cable Coupler Hood	70.3523	79.3523

EMC Shielding is retrofittable.

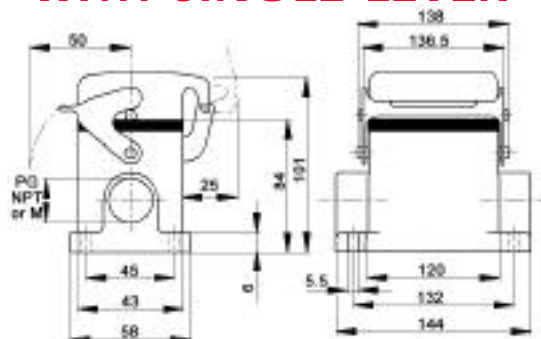


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# Rectangular Connectors HD Series

## HBE 24 HIGH PROFILE SURFACE MOUNT BASES WITH SINGLE LEVER



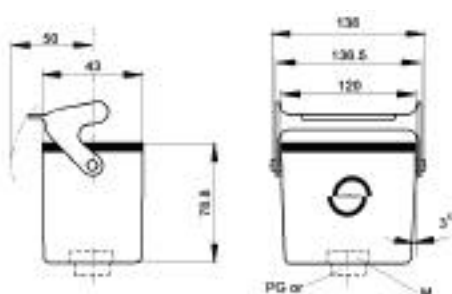
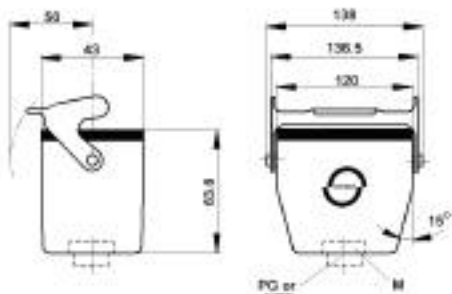
All dimensions are in mm.

# of Entries	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
2 Entries	21	3/4"	25	70.1612	70.1612NP	79.1612	70.1632	70.1632NP	79.1632	●	■	▲
	29	1"	32	70.1614	70.1614NP	79.1614	70.1634	70.1634NP	79.1634	●	■	▲
1 Entry	21	3/4"	25	70.1602	70.1602NP	79.1602	70.1622	70.1622NP	79.1622	●	■	▲
	29	1"	32	70.1604	70.1604NP	79.1604	70.1624	70.1624NP	79.1624	●	■	▲
2 Entries with dust cover	21	3/4"	25	70.1652	70.1652NP	79.1652	70.1672	70.1672NP	79.1672	●	■	▲
	29	1"	32	70.1654	70.1654NP	79.1654	70.1674	70.1674NP	79.1674	●	■	▲
1 Entry with dust cover	21	3/4"	25	70.1642	70.1642NP	79.1642	70.1662	70.1662NP	79.1662	●	■	▲
	29	1"	32	70.1644	70.1644NP	79.1644	70.1664	70.1664NP	79.1664	●	■	▲

## HBE 24 CABLE COUPLER HOODS WITH SINGLE LEVER

### STANDARD PROFILE

### HIGH PROFILE



All dimensions are in mm.

Profile	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Standard	21	3/4"	25	10.1279	10.1279NP	19.1279	70.1430	70.1430NP	79.1430	●	■	▲
	29	1"	32	10.1179	10.1179NP	19.1179	70.1432	70.1432NP	79.1432	●	■	▲
High Profile	21	3/4"	25	70.1424	70.1424NP	79.1424	70.1434	70.1434NP	79.1434	●	■	▲
	29	1"	32	70.1426	70.1426NP	79.1426	70.1436	70.1436NP	79.1436	●	■	▲

Metric hoods do not come with a neck.

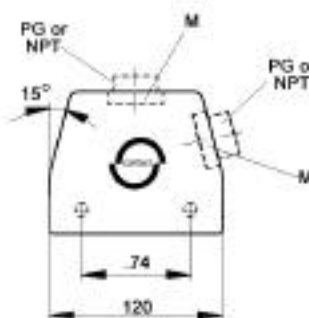
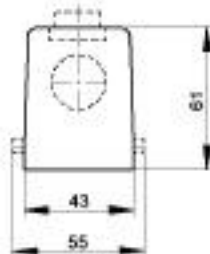
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# Rectangular Connectors HD Series

## HBE 24 HOODS WITH DOUBLE LEVER BOLTS

TOP ENTRY



SIDE ENTRY



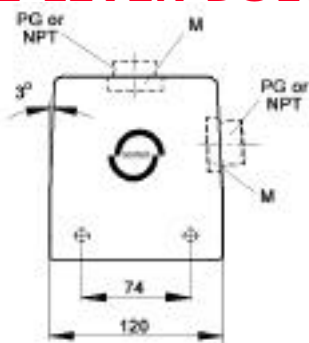
All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Top Entry	21	3/4"	25	10.1210	10.1210NP	19.1210	70.1510	70.1510NP	79.1510	●	■	▲
	29	1"	32	10.1110	10.1110NP	19.1110	70.1512	70.1512NP	79.1512	●	■	▲
Side Entry	21	3/4"	25	10.1130	10.1130NP	19.1130	70.1530	70.1530NP	79.1530	●	■	▲
	29	1"	32	10.1230	10.1230NP	19.1230	70.1532	70.1532NP	79.1532	●	■	▲

Metric hoods do not come with a neck.

## HBE 24 HIGH PROFILE HOODS WITH DOUBLE LEVER BOLTS

TOP ENTRY



SIDE ENTRY



All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Top Entry	21	3/4"	25	70.1504	70.1504NP	79.1504	70.1514	70.1514NP	79.1514	●	■	▲
	29	1"	32	70.1506	70.1506NP	79.1506	70.1516	70.1516NP	79.1516	●	■	▲
Side Entry	21	3/4"	25	70.1524	70.1524NP	79.1524	70.1534	70.1534NP	79.1534	●	■	▲
	29	1"	32	70.1526	70.1526NP	79.1526	70.1536	70.1536NP	79.1536	●	■	▲

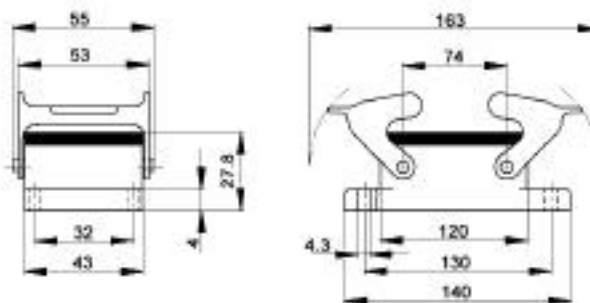
Metric hoods do not come with a neck.

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800-221-1451



# Rectangular Connectors HD Series

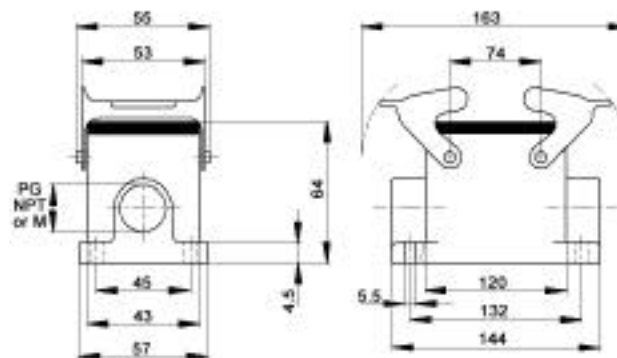
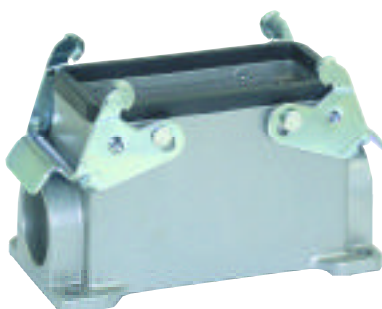
## HBE 24 PANEL MOUNT BASES WITH DOUBLE LEVERS



All dimensions are in mm.

Description	Standard Grey Coating	Black Coating (NEMA 4X)
Panel Mount without Dust Cover	10.1020	70.1325

## HBE 24 SURFACE MOUNT BASES WITH DOUBLE LEVERS



All dimensions are in mm.

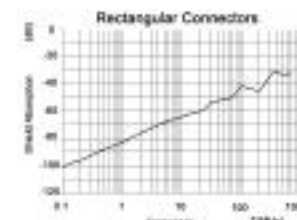
# of Entries	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
2 Entries	21	3/4"	25	10.1050	10.1050NP	19.1050	70.1380	70.1380NP	79.1380	●	■	▲
1 Entry	21	3/4"	25	10.1040	10.1040NP	19.1040	70.1370	70.1370NP	79.1370	●	■	▲

## EMC PROTECTION



	PG/NPT	Metric
Panel Mount Base	70.3503	79.3503
Surface Mount & Cable Coupler Hood	70.3523	79.3523

EMC Shielding is retrofittable.

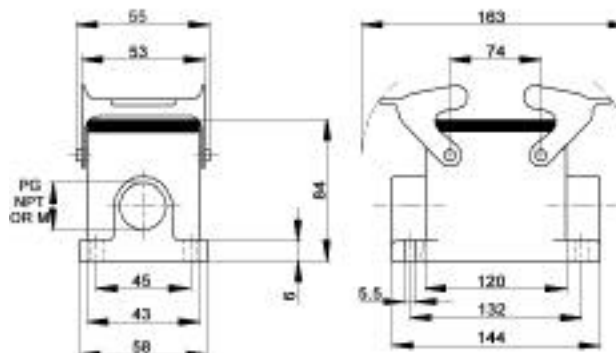
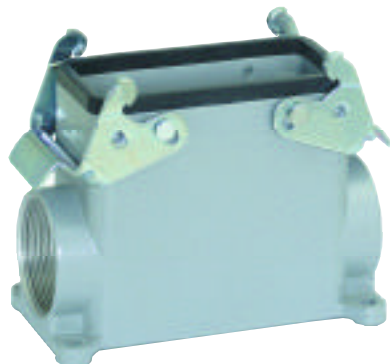


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# Rectangular Connectors HD Series

## HBE 24 HIGH PROFILE SURFACE MOUNT BASES WITH DOUBLE LEVERS



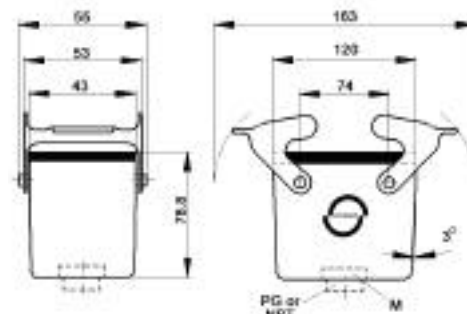
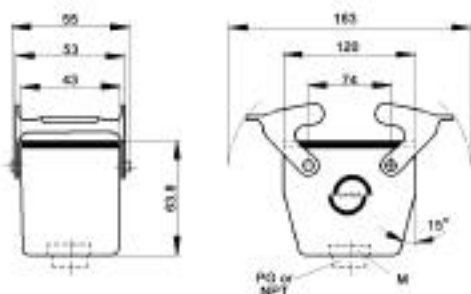
All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	
2 Entries	21	3/4"	25	70.1362	70.1362NP	79.1362	70.1382	70.1382NP	79.1382	PG NPT M
	29	1"	32	70.1364	70.1364NP	79.1364	70.1384	70.1384NP	79.1384	PG NPT M
1 Entry	21	3/4"	25	70.1352	70.1352NP	79.1352	70.1372	70.1372NP	79.1372	PG NPT M
	29	1"	32	70.1354	70.1354NP	79.1354	70.1374	70.1374NP	79.1374	PG NPT M

## HBE 24 CABLE COUPLER HOOD WITH DOUBLE LEVERS

### STANDARD PROFILE

### HIGH PROFILE



All dimensions are in mm.

Profile	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	
Standard	21	3/4"	25	10.1270	10.1270NP	19.1270	70.1410	70.1410NP	79.1410	PG NPT M
	29	1"	32	10.1170	10.1170NP	19.1170	70.1412	70.1412NP	79.1412	PG NPT M
High Profile	21	3/4"	25	70.1404	70.1404NP	79.1404	70.1414	70.1414NP	79.1414	PG NPT M
	29	1"	32	70.1406	70.1406NP	79.1406	70.1416	70.1416NP	79.1416	PG NPT M

Metric hoods do not come with a neck.

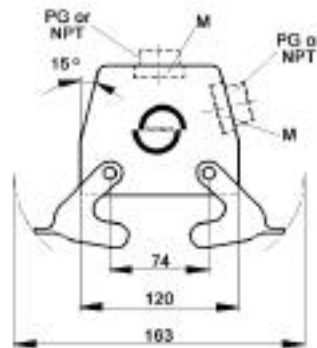
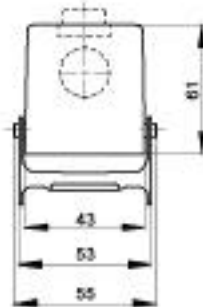
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# Rectangular Connectors HD Series

## HBE 24 HOODS WITH DOUBLE LEVERS

TOP ENTRY



SIDE ENTRY



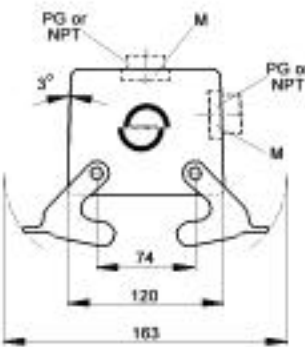
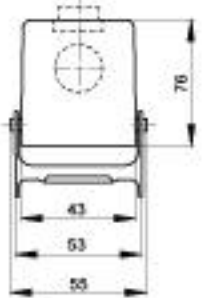
All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Top Entry	21	3/4"	25	10.1220	10.1220NP	19.1220	70.1560	70.1560NP	79.1560	●	■	▲
	29	1"	32	10.1120	10.1120NP	19.1120	70.1562	70.1562NP	79.1562	●	■	▲
Side Entry	21	3/4"	25	10.1140	10.1140NP	19.1140	70.1580	70.1580NP	79.1580	●	■	▲
	29	1"	32	10.1240	10.1240NP	19.1240	70.1582	70.1582NP	79.1582	●	■	▲

Metric hoods do not come with a neck.

## HBE 24 HIGH PROFILE HOODS WITH DOUBLE LEVERS

TOP ENTRY



SIDE ENTRY



All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Top Entry	21	3/4"	25	70.1554	70.1554NP	79.1554	70.1564	70.1564NP	79.1564	●	■	▲
	29	1"	32	70.1556	70.1556NP	79.1556	70.1566	70.1566NP	79.1566	●	■	▲
Side Entry	21	3/4"	25	70.1574	70.1574NP	79.1574	70.1584	70.1584NP	79.1584	●	■	▲
	29	1"	32	70.1576	70.1576NP	79.1576	70.1586	70.1586NP	79.1586	●	■	▲

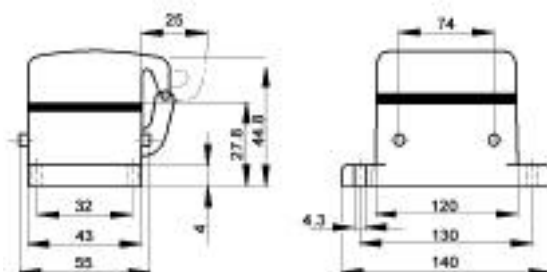
Metric hoods do not come with a neck.

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# Rectangular Connectors HD Series

## HBE 24 PANEL MOUNT BASES WITH DOUBLE LEVER BOLTS



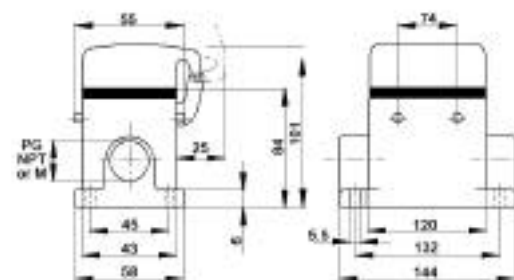
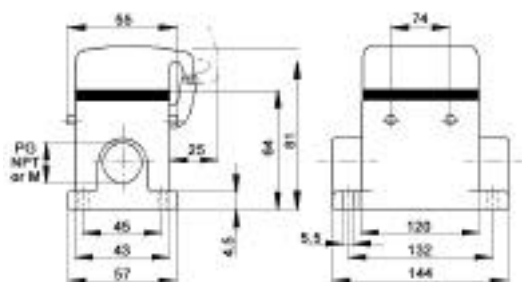
All dimensions are in mm.

Description	Standard Grey Coating	Black Coating (NEMA 4X)
Panel Mount with Dust cover	10.1030	70.1335
Panel Mount without cover	10.1031	-

## HBE 24 SURFACE MOUNT BASES WITH DOUBLE LEVER BOLTS

### STANDARD PROFILE

### HIGH PROFILE



All dimensions are in mm.

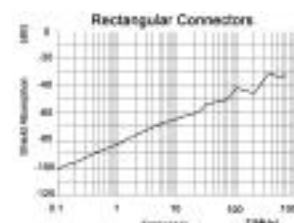
# of Entries	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #			
2 Entries	21	3/4"	25	10.1090	10.1090NP	19.1090	70.1480	70.1480NP	79.1480	●	■	▲
1 Entry	21	3/4"	25	10.1070	10.1070NP	19.1070	70.1470	70.1470NP	79.1470	●	■	▲
High Profile with 2 Entries	21	3/4"	25	70.1462	70.1462NP	79.1462	70.1482	70.1482NP	79.1482	●	■	▲
	29	1"	32	70.1464	70.1464NP	79.1464	70.1484	70.1484NP	79.1484	●	■	▲
High Profile with 1 Entry	21	3/4"	25	70.1452	70.1452NP	79.1452	70.1472	70.1472NP	79.1472	●	■	▲
	29	1"	32	70.1454	70.1454NP	79.1454	70.1474	70.1474NP	79.1474	●	■	▲

## EMC PROTECTION



	PG/NPT	Metric
Panel Mount Base	70.3503	79.3503
Surface Mount & Cable Coupler Hood	70.3523	79.3523

EMC Shielding is retrofittable.

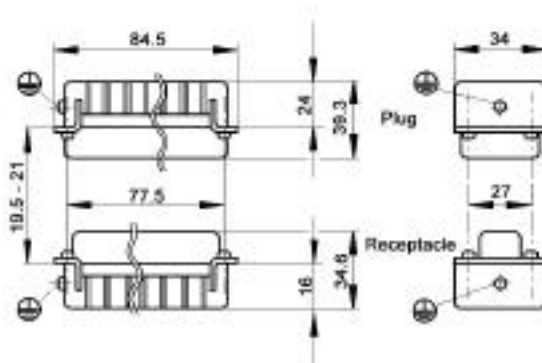


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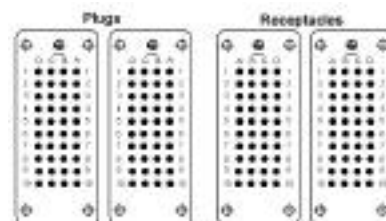


# Rectangular Connectors HD Series

## HD 80 CRIMP TERMINATED: MACHINE CONTACT INSERTS



View from cable side



All dimensions are in mm.

Contacts Sold Separately

Plug	Receptacle
11.2652(2X)	11.2662 (2X)

These inserts fit in the HBE 32 Series Housings which are on the following pages.

## MACHINED CONTACTS: DIAMETER 1.6MM



Bags of 100							
mm2	AWG	Silver			Gold		
		Pin	Socket	Stripping Length	Pin	Socket	Stripping Length
0.14 - 0.37	26 - 22	13.1620	13.1630	8	13.1625	13.1635	8
0.5	20	13.1621	13.1631	8	13.1626	13.1636	8
0.75 - 1.0	18	13.1622	13.1632	8	13.1627	13.1637	8
1.5	16	13.1623	13.1633	8	13.1628	13.1638	8
2.5	14	13.1624	13.1634	5.8	-	-	-

## TOOLS

WIRE GAUGE: 0.14 - 2.5 MM2



Locator  
11.1472



Crimp Dies  
11.1471



Crimp Tool  
11.1470



Removal Tool:  
11.1610

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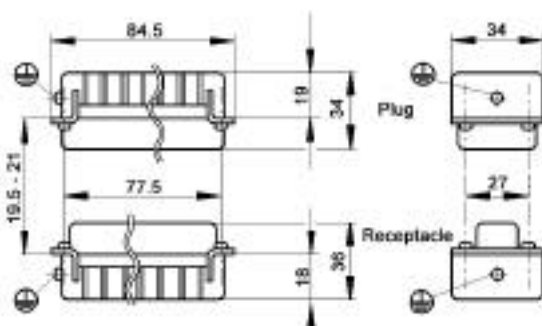


# Rectangular Connectors HD Series

## HD 80 CRIMP TERMINATED: STAMPED & FORMED CONTACT



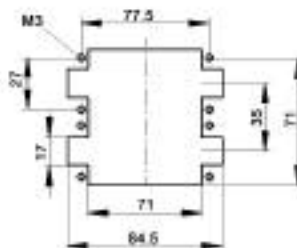
Contacts Sold Separately



All dimensions are in mm.

Plug	Receptacle
11.2650 (2X)	11.2660 (2X)

Panel Cut-Out



These inserts fit in the HBE 32 Series Housings which are on the following pages.

## STAMPED & FORMED CONTACTS: DIAMETER 1.6MM



Reel feeds from left.

mm2	AWG	Bags of 100				Reels of 200		Stripping Length
		Silver		Gold		Silver		
		Pin	Socket	Pin	Socket	Pin	Socket	
0.14 - 0.5	26 - 20	11.2411	11.2311	11.2431	11.2331	11.2407	11.2307	2.5 - 0.5
0.5 - 1.5	20 - 16	11.2210	11.2361	11.2213	11.2381	11.2207	11.2357	3.5 - 0.5
1.5 - 2.5	16 - 14	11.2235	11.2285	-	-	11.2230	11.2280	3.5 - 0.5

## TOOLS

### WIRE GAUGE: 0.14 - 2.5 MM<sup>2</sup>



Crimp Tool  
11.1470



Locator  
11.1473



Removal Tool:  
11.1610



Crimp Tool for Reel:  
11.1535

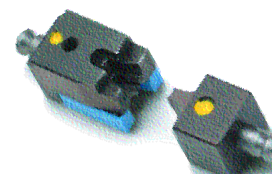


### Crimp Dies

0.14-0.5:	11.147170
0.5-1.5:	11.147180
1.5-2.5:	11.147190

### Crimp Dies for Reel:

0.14-0.5:	11.1536
0.5-1.5:	11.1537
1.5-2.5:	11.1538



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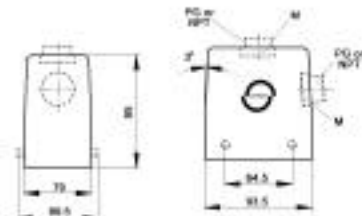


# Rectangular Connectors HD Series

1

## HBE 32 HIGH PROFILE HOODS WITH DOUBLE LEVER BOLTS

### TOP ENTRY



### SIDE ENTRY



Metric hoods do not come with a neck.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Top Entry	29	1"	32	10.1340	10.1340NP	19.1340	●	■	▲
Side Entry	21	3/4"	25	10.1350	10.1350NP	19.1350	●	■	▲
	29	1"	32	10.1360	10.1360NP	19.1360	●	■	▲

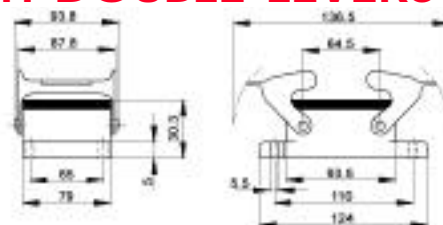
All dimensions are in mm.

## HBE 32 PANEL MOUNT BASES WITH DOUBLE LEVERS

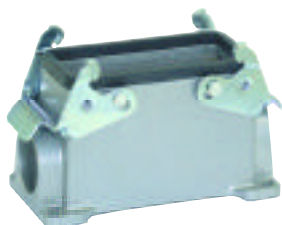


Standard Grey Coating
10.1320

All dimensions are in mm.

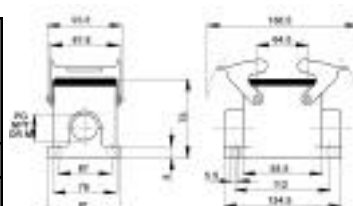


## HBE 32 SURFACE MOUNT BASE WITH DOUBLE LEVERS



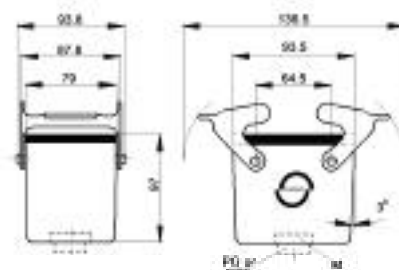
# of Entries	Size of Entry			Standard Grey Coating		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #
2 Entries	29	1"	32	10.1380	10.1380NP	19.1380
1 Entry	29	1"	32	10.1370	10.1370NP	19.1370

All dimensions are in mm.



## HBE 32 CABLE COUPLER WITH DOUBLE LEVERS

Size of Entry			Standard Grey Coating			Strain Relief
PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	
29	1"	32	10.1395	10.1395NP	19.1395	● ■ ▲



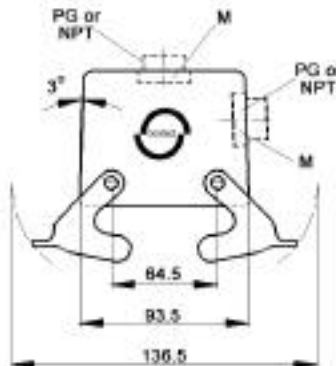
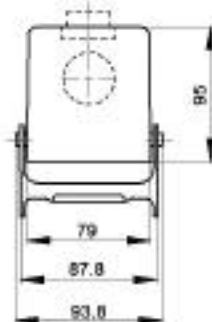
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# Rectangular Connectors HD Series

## HBE 32 HIGH PROFILE HOODS WITH DOUBLE LEVERS

### TOP ENTRY



### SIDE ENTRY



All dimensions are in mm.

Position of Entry	Size of Entry			Standard Grey Coating			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Top Entry	29	1"	32	70.2050	70.2050NP	79.2050	●	■	▲
Side Entry	29	1"	32	10.1366	10.1366NP	19.1366	●	■	▲

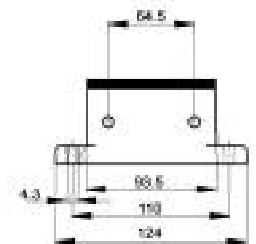
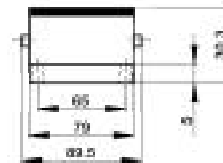
Metric hoods do not come with a neck.

## HBE 32 PANEL MOUNT BASES WITH DOUBLE LEVER BOLTS

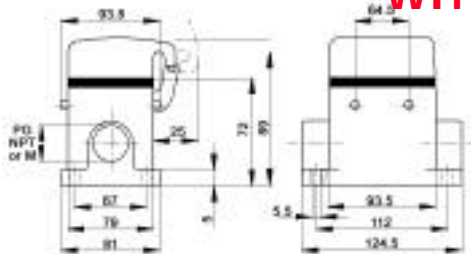


Standard Grey Coating  
10.1323

All dimensions are in mm.



## HBE 32 SURFACE MOUNT BASES WITH DOUBLE LEVER BOLTS



All dimensions are in mm.



# of Entries	Size of Entry			Standard Grey Coating			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
2 Entries	21	3/4"	25	70.1961	70.1961NP	79.1961	●	■	▲
1 Entry	21	3/4"	25	10.1373	10.1373NP	19.1373	●	■	▲

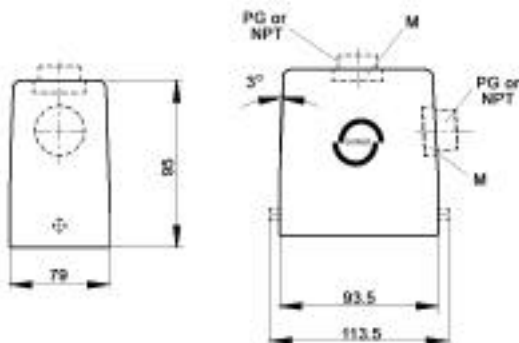
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# Rectangular Connectors HD Series

## HBE 32 HOOD WITH SINGLE LEVER BOLTS

### TOP ENTRY



### SIDE ENTRY

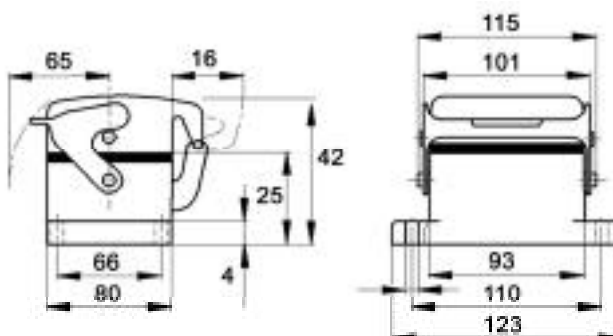


Metric hoods do not come with a neck.

Position of Cable Entry	Size of Entry			Black Coating			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Top Entry	29	1"	32	10.1340SB	10.1340SBNP	19.1340SB	●	■	▲
Side Entry	21	3/4"	25	10.1350SB	10.1350SBNP	19.1350SB	●	■	▲
	29	1"	32	10.1360SB	10.1360SBNP	19.1360SB	●	■	▲

All dimensions are in mm.

## HBE 32 PANEL MOUNT BASE WITH SINGLE LEVER



All dimensions are in mm.

Part #
10.1320-L

\* Please note that these hoods and base are not EP.

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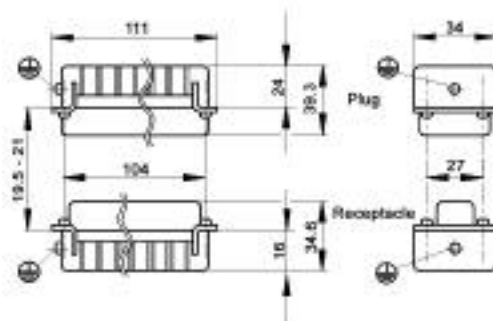


# Rectangular Connectors HD Series

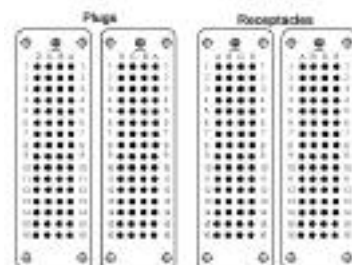
## HD 128 CRIMP TERMINATED: MACHINE CONTACT INSERTS



Contacts Sold Separately



View from cable side



All dimensions are in mm.

Plug	Receptacle
11.2720(2X)	11.2730 (2X)

These inserts fit in the HBE 48 Series Housings which are on the following pages.

## MACHINED CONTACTS: DIAMETER 1.6MM



Bags of 100							
mm2	AWG	Silver			Gold		
		Pin	Socket	Stripping Length	Pin	Socket	Stripping Length
0.14 - 0.37	26 - 22	13.1620	13.1630	8	13.1625	13.1635	8
0.5	20	13.1621	13.1631	8	13.1626	13.1636	8
0.75 - 1.0	18	13.1622	13.1632	8	13.1627	13.1637	8
1.5	16	13.1623	13.1633	8	13.1628	13.1638	8
2.5	14	13.1624	13.1634	5.8	-	-	-

## TOOLS

### WIRE GAUGE: 0.14 - 2.5 MM2



Locator  
11.1472



Crimp Dies  
11.1471



Crimp Tool  
11.1470



Removal Tool:  
11.1610

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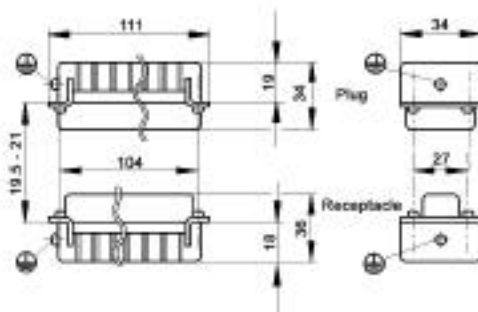


# Rectangular Connectors HD Series

## HD 128 CRIMP TERMINATED: STAMPED & FORMED CONTACT



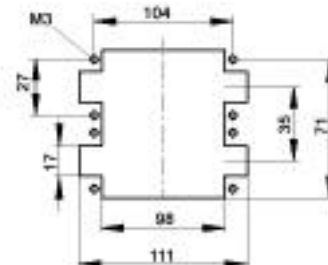
Contacts Sold Separately



All dimensions are in mm.

Plug	Receptacle
11.2700 (2X)	11.2710 (2X)

### Panel Cut-Out



These inserts fit in the HBE 48 Series Housings which are on the following pages.

## STAMPED & FORMED CONTACTS: DIAMETER 1.6MM



Reel feeds from left.

mm2	AWG	Bags of 100				Reels of 200		Stripping Length
		Silver		Gold		Silver		
		Pin	Socket	Pin	Socket	Pin	Socket	
0.14 - 0.5	26 - 20	11.2411	11.2311	11.2431	11.2331	11.2407	11.2307	2.5 - 0.5
0.5 - 1.5	20 - 16	11.2210	11.2361	11.2213	11.2381	11.2207	11.2357	3.5 - 0.5
1.5 - 2.5	16 - 14	11.2235	11.2285	-	-	11.2230	11.2280	3.5 - 0.5

## TOOLS

### WIRE GAUGE: 0.14 - 2.5 MM2



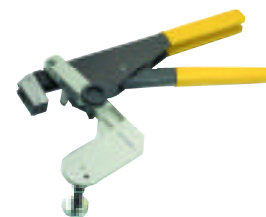
Crimp Tool  
11.1470



Locator  
11.1473



Removal Tool:  
11.1610

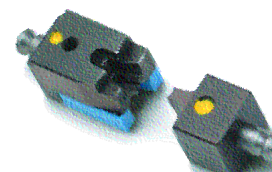


Crimp Tool for Reel:  
11.1535



Crimp Dies	
0.14-0.5:	11.147170
0.5-1.5:	11.147180
1.5-2.5:	11.147190

Crimp Dies for Reel:	
0.14-0.5:	11.1536
0.5-1.5:	11.1537
1.5-2.5:	11.1538



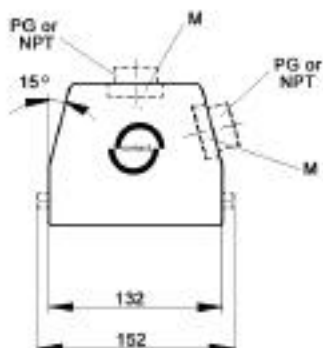
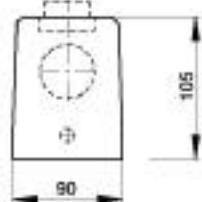
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800-221-1451



# Rectangular Connectors HD Series

## HBE 48 HOODS WITH SINGLE LEVER BOLTS

TOP ENTRY



SIDE ENTRY

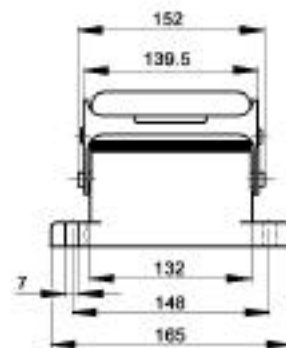
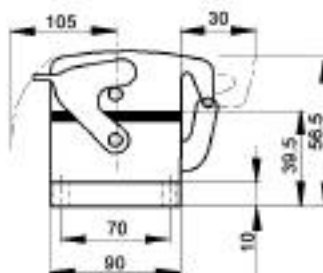


Position of Cable Entry	Size of Entry			Standard Grey Coating			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Top Entry	29	1"	32	10.1550	10.1550NP	19.1550	●	■	▲
	36	1 1/4"	40	10.1560	10.1560NP	19.1560	●	■	▲
	42	-	50	10.1570	-	19.1570	●	■	▲
Side Entry	29	1"	32	10.1580	10.1580NP	19.1580	●	■	▲
	36	1 1/4"	40	10.1590	10.1590NP	19.1590	●	■	▲
	42	-	50	10.1600	-	19.1600	●	■	▲

All dimensions are in mm.

Metric hoods do not come with a neck.

## HBE 48 PANEL MOUNT BASES WITH SINGLE LEVER



All dimensions are in mm.

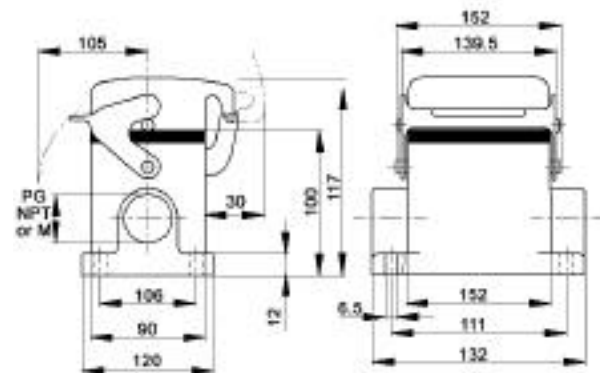
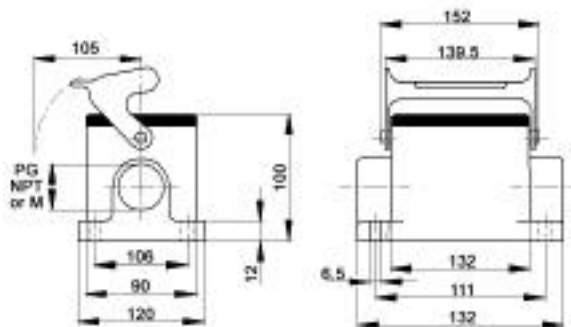
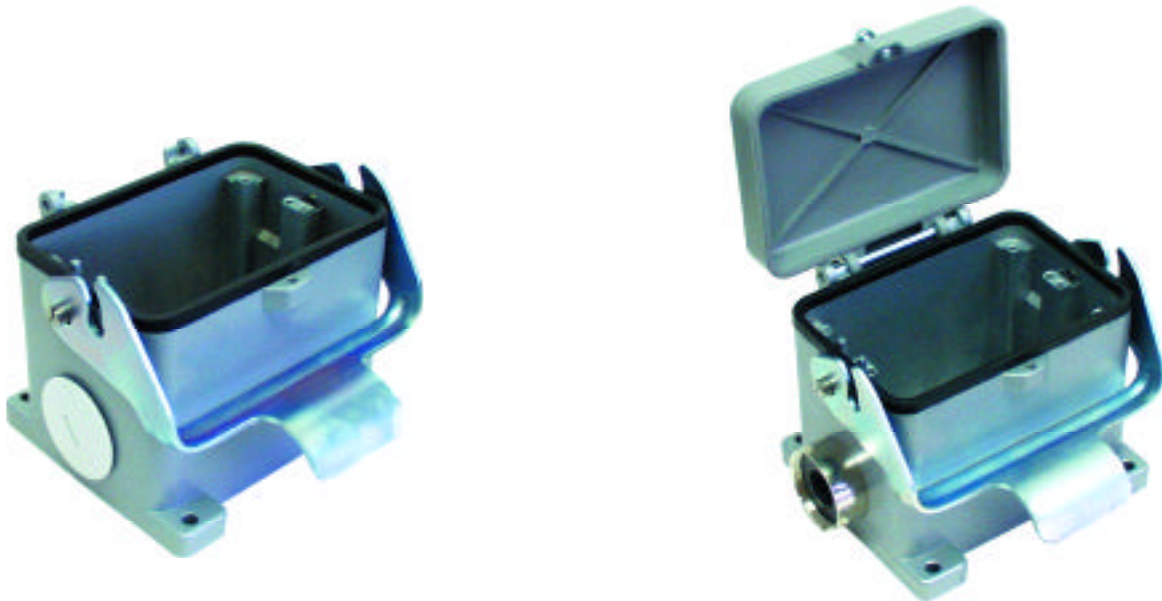
Without Dust Cover	With Dust Cover with hold down screws and no dust cover bolts	With Dust Cover with hold down screws and dust cover bolts
10.1610	10.1520	10.1525

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# Rectangular Connectors HD Series

## HBE 48 SURFACE MOUNT BASES WITH LEVERS



All dimensions are in mm.

Position of Cable Entry	Size of Entry			Standard Grey Coating			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
2 Entries	29	1"	32	10.1660	10.1660NP	19.1660	●	■	▲
	36	1 1/4"	40	10.1661	10.1661NP	19.1661	●	■	▲
1 Entry	29	1"	32	10.1650	10.1650NP	19.1650	●	■	▲
	36	1 1/4"	40	10.1651	10.1651NP	19.1651	●	■	▲
2 Entries with dust cover	29	1"	32	10.1680	10.1680NP	19.1680	●	■	▲
	36	1 1/4"	40	10.1681	10.1681NP	19.1681	●	■	▲
1 Entry with dust cover	29	1"	32	10.1670	10.1670NP	19.1670	●	■	▲
	36	1 1/4"	40	10.1671	10.1671NP	19.1671	●	■	▲

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