

# HBS SERIES

The HBS series inserts are characterized by their high current carrying capacity. A secure and resistant connection can be made by simple screw termination in an area up to 6mm<sup>2</sup>. These inserts fit into the HBE Series housings which are now standard with fixed levers.

# of Contacts: 6, 12



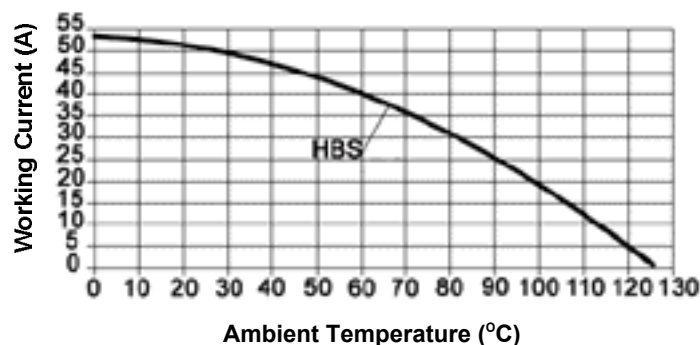
# Rectangular Connectors HBS Series

## TECHNICAL DATA: INSERTS

<b>Number of Contacts:</b>	6, 12 (+PE)	<b>Pollution Level:</b>	3
<b>Rated Voltage:</b>	VDE: 500V EPIC HBS 6-12 UL: 600V EPIC HBS 6-12 CSA: 600V EPIC HBS 6-12 SEV: 660V EPIC HBS 6-12	<b>Test Voltage:</b>	6 kV
<b>Rated Current:</b>	VDE: 35A EPIC HBS 6-12 UL: 35A EPIC HBS 6-12 CSA: 35A EPIC HBS 6-12 SEV: 35A EPIC HBS 6-12	<b>Termination Type:</b>	Screw termination: 0.5 - 6 mm <sup>2</sup> AWG: 20 - 10
		<b>Temperature Range:</b>	-40°C to 125°C
		<b>Contacts:</b>	Copper alloy, silver plated
		<b>Contact Resistance:</b>	<2mOhm
		<b>Mating Cycles:</b>	100 (higher mating cycles depends on the application)

## TECHNICAL DATA: DERATING CURVES

HBS: 6.0 mm<sup>2</sup> (10 AWG)

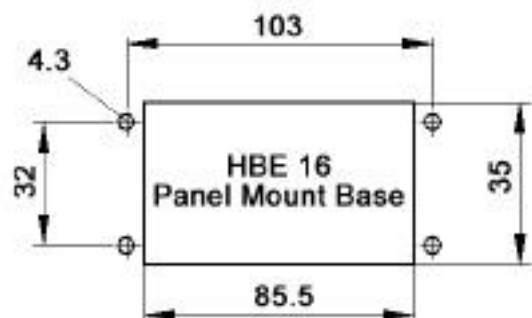


## TECHNICAL DATA: HOUSINGS

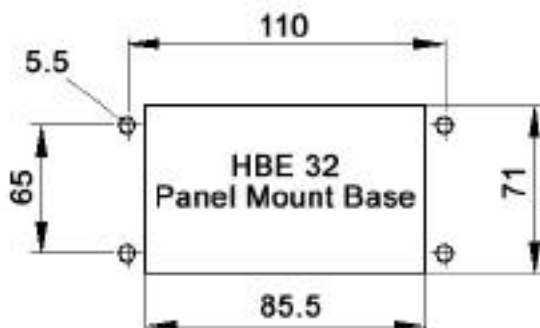
<b>Specifications:</b>	DIN 43652
<b>Temperature Range:</b>	-40°C to +125°C
<b>Protection class:</b>	NEMA 4, 4X, IP65
<b>Material:</b>	Aluminum alloy, powder coated

### PANEL CUT-OUTS FOR PANEL MOUNT BASES

HBS 6 Inserts fit into



HBS 12 Inserts fit into



All dimensions are in mm.

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# Rectangular Connectors HBS Series

## TECHNICAL DATA: HOUSINGS

### 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

### BLACK COATING (NEMA 4X)

PG



NPT

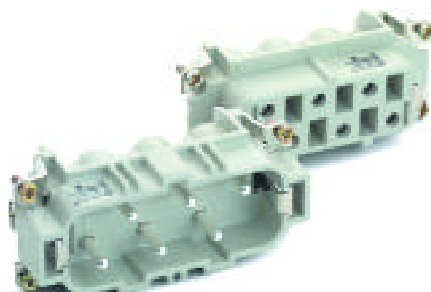


METRIC

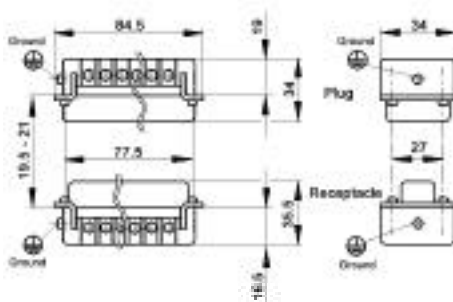
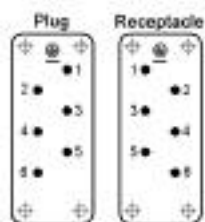


**HBE 6 - 48 EP:** Environmentally Protected: aluminum alloy, powder coated (black), locking levers and bolts made of stainless steel.

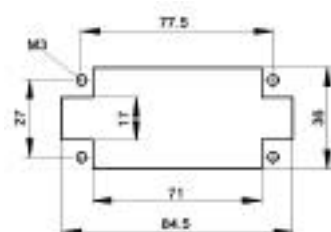
## HBS 6 INSERTS



View from cable side



Panel Cut-Out



All dimensions are in mm.

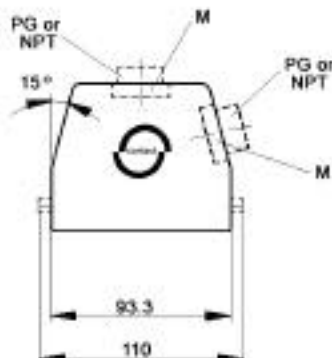
	Plug	Receptacle
Screw Termination with wire protection	10.1700	10.1710

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

# Rectangular Connectors HBS Series

## HBE 16 HOODS WITH SINGLE LEVER BOLTS

TOP ENTRY



SIDE ENTRY



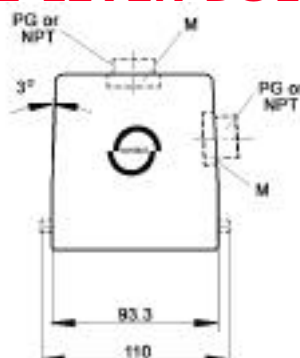
All dimensions are in mm.

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			

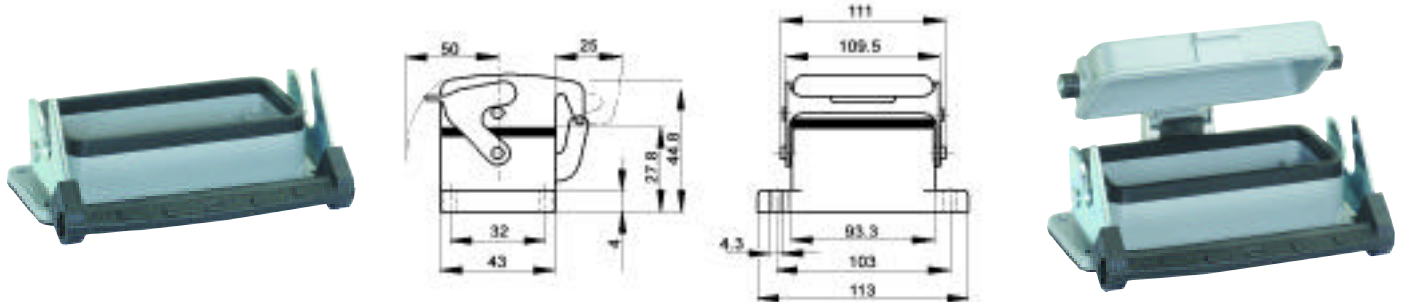
Metric hoods do not come with a neck.

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# Rectangular Connectors HBS Series

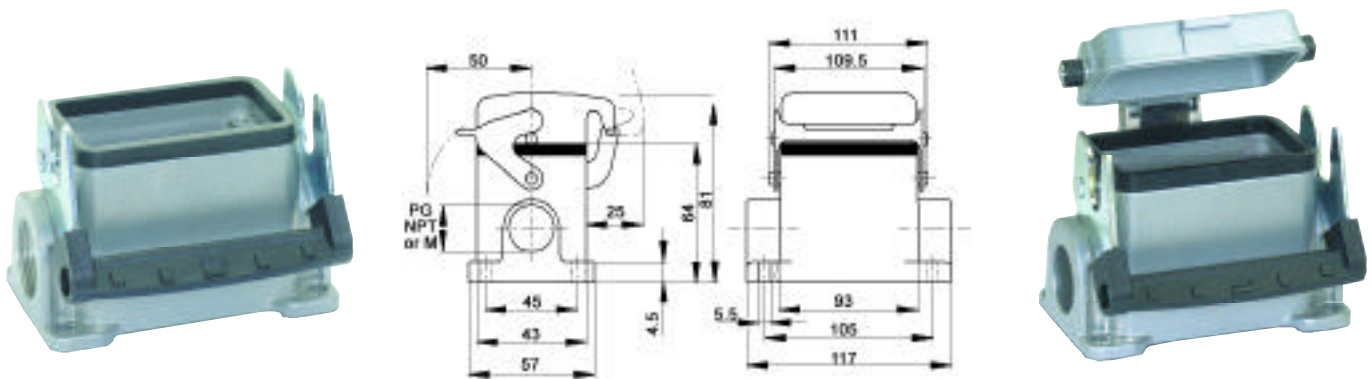
## HBE 16 PANEL MOUNT BASES WITH SINGLE LEVER



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



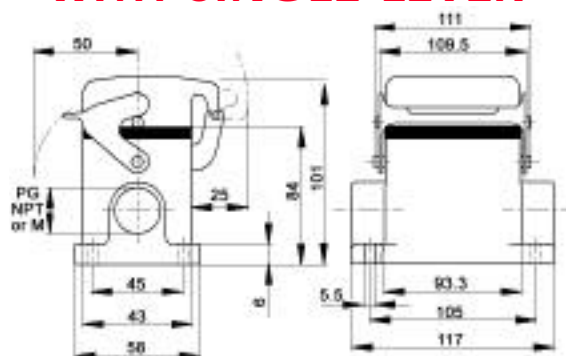
All dimensions are in mm.

# 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 HBS Series

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



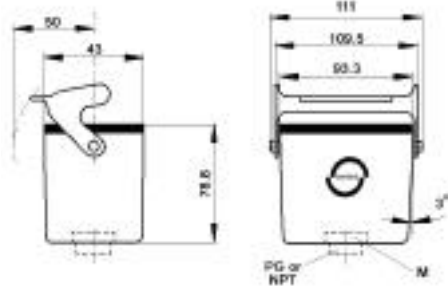
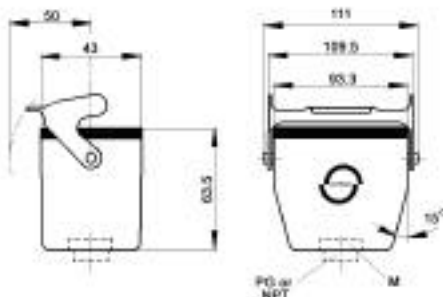
All dimensions are in mm.

# 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	●	■	▲

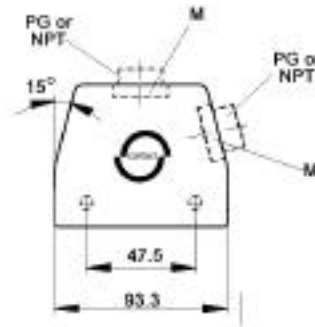
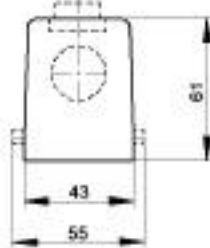
Metric hoods do not come with a neck.

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# Rectangular Connectors HBS Series

## HBE 16 HOODS WITH DOUBLE LEVER BOLTS

TOP ENTRY



SIDE ENTRY



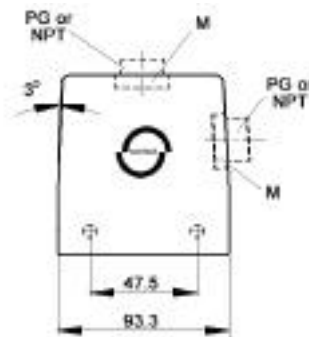
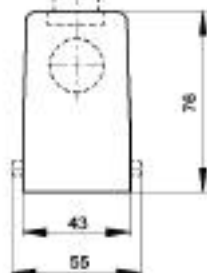
All dimensions are in mm.

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 #	
Top Entry	21	3/4"	25	10.0800	10.0800NP	19.0800	70.1010	70.1010NP	79.1010	PG NPT M
	29	1"	32	10.0900	10.0900NP	19.0900	-	-	-	PG NPT M
Side Entry	21	3/4"	25	10.0820	10.0820NP	19.0820	70.1030	70.1030NP	79.1030	PG NPT M
	29	1"	32	10.0920	10.0920NP	19.0920	-	-	-	PG NPT M

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.

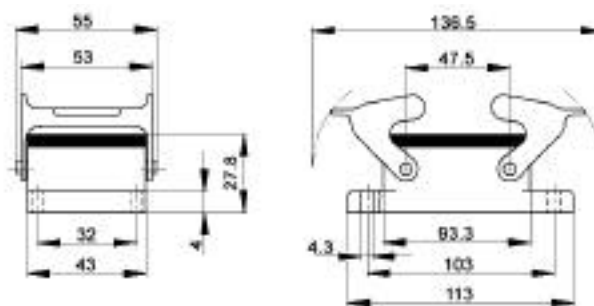
Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	
Top Entry	21	3/4"	25	70.1002	70.1002NP	79.1002	70.1012	70.1012NP	79.1012	PG NPT M
	29	1"	32	70.1004	70.1004NP	79.1004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

Metric hoods do not come with a neck.

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# Rectangular Connectors HBS Series

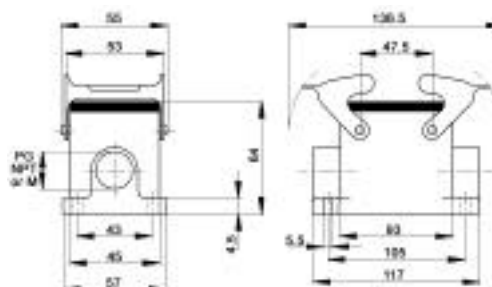
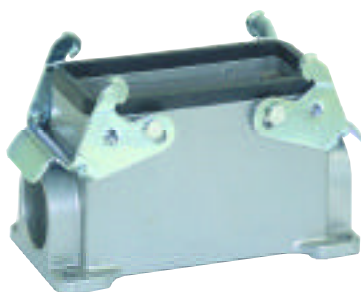
## HBE 16 PANEL MOUNT BASES WITH DOUBLE LEVERS



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.

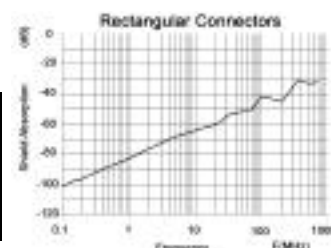
Mounting Type	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
2 Entries	21	3/4"	25	10.0750	10.0750NP	19.0750	70.0880	70.0880NP	79.0880	●	■	▲
1 Entry	21	3/4"	25	10.0740	10.0740NP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

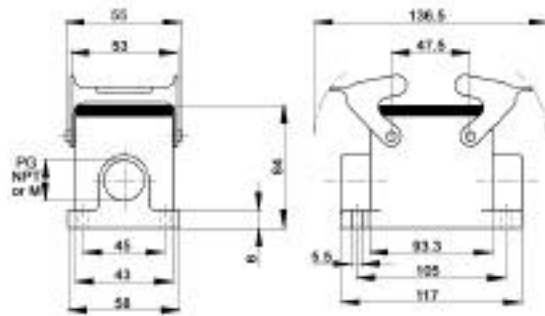


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# Rectangular Connectors HBS Series

## HBE 16 HIGH PROFILE BASES WITH DOUBLE LEVERS



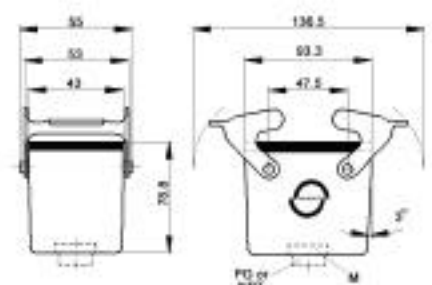
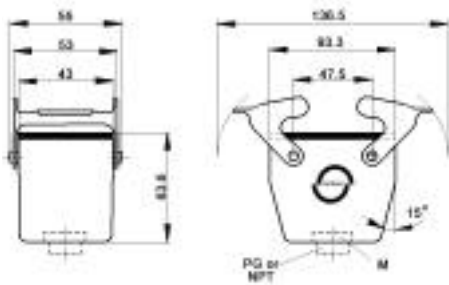
All dimensions are in mm.

# 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			

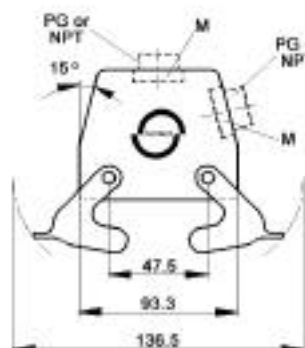
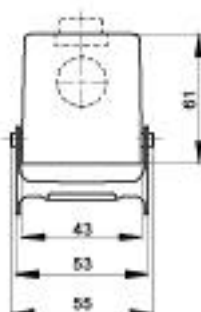
Metric hoods do not come with a neck.

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# Rectangular Connectors HBS Series

## HBE 16 HOODS WITH DOUBLE LEVERS

TOP ENTRY



SIDE ENTRY



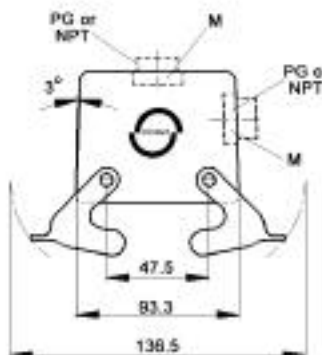
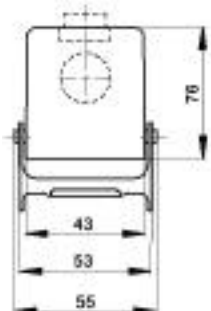
All dimensions are in mm.

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.

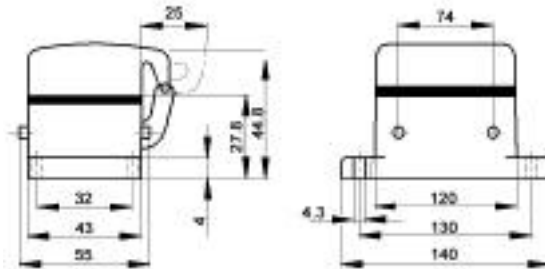
Position of Cable Entry	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
Top Entry	21	3/4"	25	70.1052	70.1052NP	79.1052	70.1062	70.1062NP	79.1062	●	■	▲
	29	1"	32	70.1054	70.1054NP	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 HBS Series

## HBE 16 PANEL MOUNT BASES WITH DOUBLE LEVER BOLTS

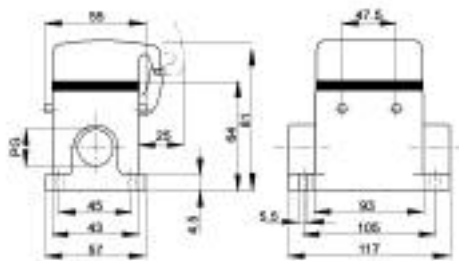


All dimensions are in mm.

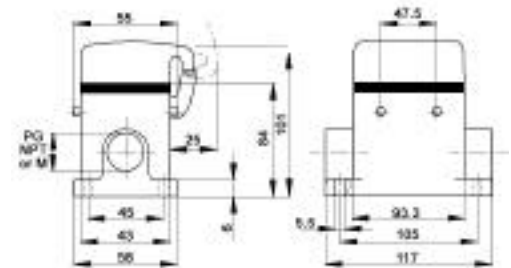
Description	Standard Grey Coating	Black Coating (NEMA 4X)
Panel Mount with Dust cover	10.0730	70.0835
Panel Mount without cover	10.0731	-

## HBE 16 SURFACE MOUNT BASES WITH DOUBLE LEVER BOLTS

### STANDARD PROFILE



### HIGH PROFILE



All dimensions are in mm.

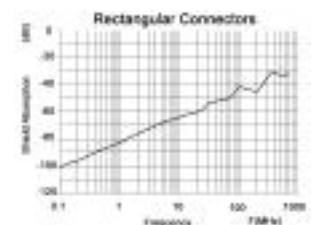
# of Entries	Size of Entry			Standard Grey Coating			Black Coating (NEMA 4X)			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
2 Entries	21	3/4"	25	70.0960	70.0960NP	79.0960	70.0980	70.0980NP	79.0980	●	■	▲
1 Entry	21	3/4"	25	10.0760	10.0760NP	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

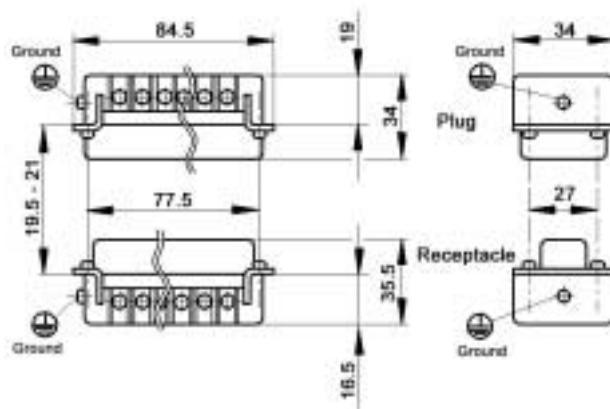
EMC Shielding is retrofitable.



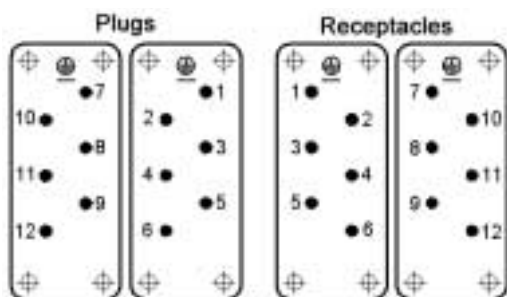
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# Rectangular Connectors HBS Series

## HBS 12 INSERTS

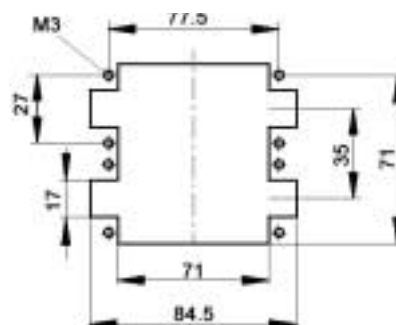


View from cable side



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

Panel Cut-Out



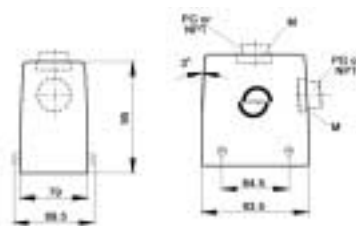
	Plug	Receptacle
Screw Termination with wire protection #1-6	10.1700	10.1710
Screw Termination with wire protection #7-12	10.1706	10.1716

## 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	●	■	▲

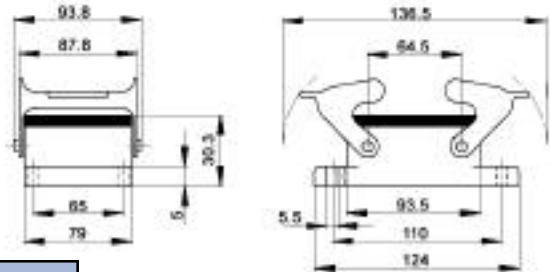
All dimensions are in mm.

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# Rectangular Connectors HBS Series

## HBE 32 PANEL MOUNT BASES WITH DOUBLE LEVERS



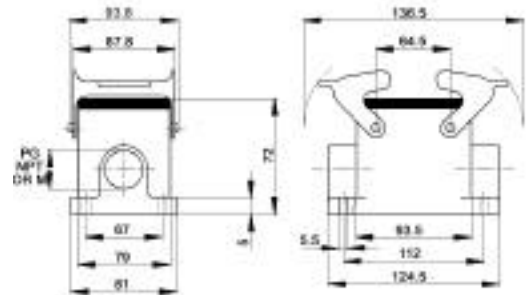
**Standard Grey Coating**

10.1320

All dimensions are in mm.

1

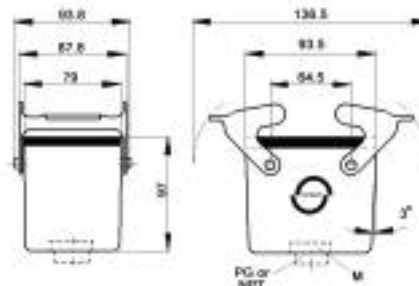
## HBE 32 SURFACE MOUNT BASE WITH DOUBLE LEVERS



# 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



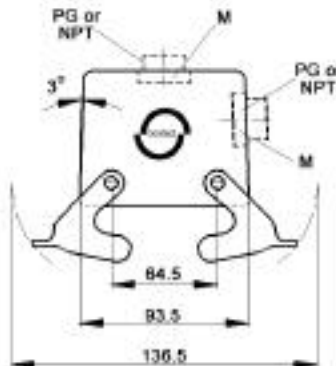
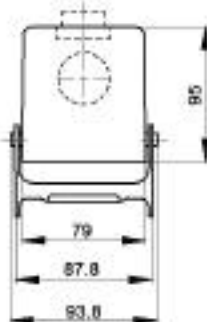
Size of Entry			Standard Grey Coating			Strain Relief
PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	
29	1"	32	10.1395	10.1395NP	19.1395	PG NPT M

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# Rectangular Connectors HBS 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.

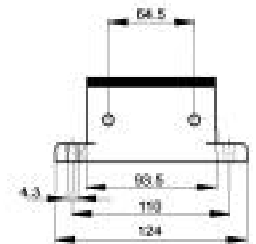
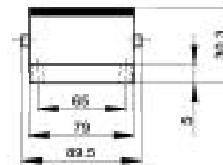
## HBE 32 PANEL MOUNT BASES WITH DOUBLE LEVER BOLTS



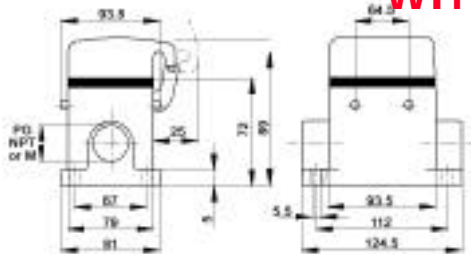
### Standard Grey Coating

10.1323

All dimensions are in mm.



## HBE 32 SURFACE MOUNT BASES WITH DOUBLE LEVER BOLTS



All dimensions are in mm.



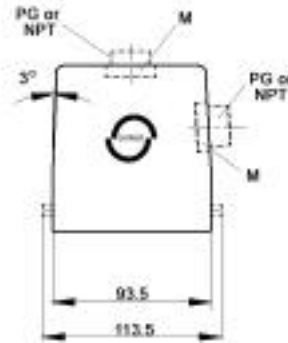
# of Entries	Size of Entry			Standard Grey Coating			Strain Relief		
	PG	NPT	Metric	PG Part #	NPT Part #	Metric Part #	PG	NPT	M
2 Entries	21	3/4"	25	70.1961	70.1961NP	79.1961	●	■	▲
1 Entry	21	3/4"	25	10.1373	10.1373NP	19.1373	●	■	▲

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# Rectangular Connectors HBS Series

## HBE 32 HOOD WITH SINGLE LEVER BOLTS

### TOP ENTRY



### SIDE ENTRY

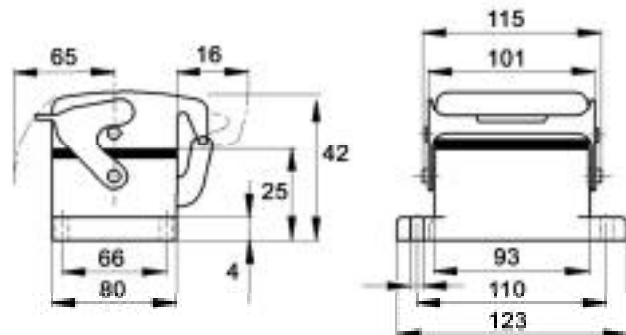


Metric hoods do not come with a neck.

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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