

# BMS

- Coupling: Bayonet
- Terminal: Solder

VG95234

MIL-DTL-5015



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High-tech Enterprise Certificate



Foreign Invested Advanced



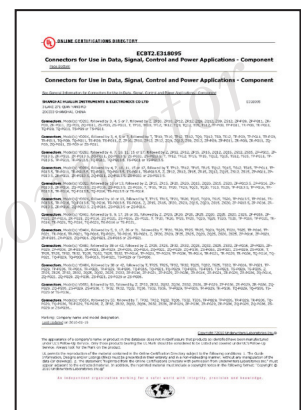
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ISO9001, ISO14001, ISO45001



UL for YD series

# Live parts should not be disassembled without authorization!!!



## TIPS

- 1 After the wire is welded, be sure to seal the heat shrinkable sleeve at the welding site



- 2 Especially Recommended Assembly Nut Plate

The Feature of Assembly Nut Plate  
Convenient and Fast! Firm!



## Profile

- ◆ Design according to MIL5015, VG95234, interchangeable with equivalent products.
- ◆ Insert: Halogen free & fire resistance thermoplastic UL94V-0; 2-60 pins. More than 65 types.
- ◆ Shell size-arrangement: 14S, 16S, 16, 18, 20, 22, 24, 28, 32, 36, 40.
- ◆ Coupling: bayonet
- ◆ Terminal: solder
- ◆ Tools: hand crimp tool-M22520/1-01. Pneumatic crimp tool would be update efficiency and fit for mass crimping.
- ◆ Shell Protection degree: IP65/67
- ◆ Shock vibration: Class 1B (GB/T21563-2018 Shock and vibration test of rail transit locomotive and rolling stock equipment)
- ◆ Technical data qualified to NFF61030 ( Normes francaises ) & GB/T34119-2017 ( Railway rolling stock-Electrical connectors ) .
- ◆ Shell color: Black, Army Green
- ◆ TUV certification.

Hualun connectors are appointed by Chinese rail transport, engineering machinery, power electric power, thermoplastic machinery, industrial automation, and robot manufacturing enterprises. as a perennial supporting product.

## Technical Data

### Environmental

Operating Temperature	Upper limit+125°C * Lower limit-55°C
Relative Humidity	40°C±2°C 93%~95%
Salty Spray Corrosion	≥96hours
Protection Degree	IP65,IP67 (when mated,wired and mounted according to DS)
Shock Vibration	Class 1B (GB/T21563-2018 / IEC61373: 2010)

**Note:** \* The upper limit temperature is the maximum internal hot spot temperature that occurs in either combination of electrical load and environmental conditions.

### Contact current De-rating

Qty of contacts	1~10	11~20	21~30	31~50	51~80
Drop rate%	0	10	20	30	40

### Mechanical Features

Type of contacts#	● 16#	⊕ 12#	⊗ 8#	⊙ 4#
retention force (min)	44.5N	66.7N	89.0N	89.0N
Minimum separation force	0.56N	0.83N	1.39N	2.78N

The contact crimp is sufficient to match the tensile strength of the cable

Type of contacts#	Wire Gauge		OD of Cable	
	AWG	mm <sup>2</sup>	min	max
● 16#	20	0.50	1.63	3.30
	18	0.80		
	16	1.25		
⊕ 12#	14	2.00	2.90	4.32
	12	3.15		
⊗ 8#	10	6.30	4.17	6.48
	8	8.00		
⊙ 4#	6	12.50	6.91	9.40
	4	25.00		

Mechanical Life ≥500

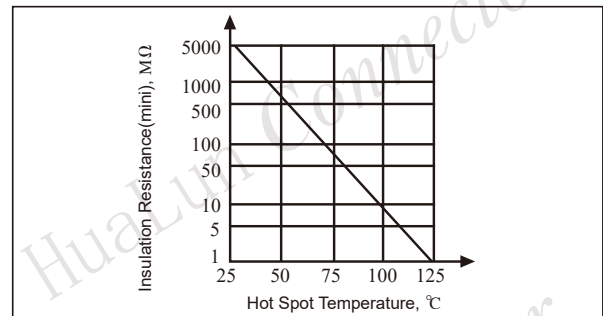
### Testing Condition

Temperature: 15°C~35°C	Relative Humidity: 20%~80%	Atmospheric Pressure: 73KPa~106KPa
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### Electric Features

Service rating	Inst.	A	D	E
Rated Voltage	250VDC	700VDC	1250VDC	1750VDC
	200VAC	500VAC	900VAC	1250VAC
Dielectric Withstand Voltage	1000VAC	2000VAC	2800VAC	3500VAC
Mechanical Spacing	-	1.59mm	3.18mm	4.76mm
Creepage Distance	1.59mm	3.18mm	4.76mm	6.35mm
Insulation Resistance	Normal: >5000MΩ, (Dynamic values see tableA)			
Type of contacts#	● 16#	⊕ 12#	⊗ 8#	⊙ 4#
Working Current	13A	23A	46A	80A
Contact Resistance	2.5mΩ	1.3mΩ	0.7mΩ	0.35mΩ

**TableA** The limit value of insulation resistance varies with temperature



### Material of Main Parts

Shell	Material	Aluminum Alloy
	Finish	Electrophoretic Paint; Zinc Passivation
Insert	Material	Halogen free & fire resistance thermoplastic material
	Flame Retardant Grade	UL94V-0
Contacts	Material	Copper Alloy
	Plating	Silver; Gold
Grommet & Bushing	Low Fire Hazard Rubber	

## Part Number (Explanation)

### Receptacle ①

(Panel Mounted)  
(No Protective Enclosure)

e.g. ① BMS    31    02    S18-19    N

e.g. ② BMS    31    22    P18-19    W    L

①            ②            ③            ④            ⑤            ⑥

### Explanation

① **BMS** : Coupling (bayonet)

② **31** : Terminal (solder)

③ **02** : Front Mounting { panel mounted,  
**22** : Rear Mounting { No protective enclosure

④ Insert:

**S (P) 18 - 19**

S: Socket      Shell-size      Arrangement No.  
P: Pin

Insert P/N: See Page 9-18

⑤ Insert Orientation:

**N**: Cardinal Points; (Default)

**W, X, Y, Z**, See Page 19

⑥ Shell Color:

◆ **H**: Black

◆ **L**: Army Green

■ Shell Size See Page 20



## Part Number (Explanation)

**Receptacle ②** (Protective Enclosure)  
(Clamp/Gland)

e.g. ①	<b>BMS</b>	<b>31</b>	<b>20</b>	<b>S18-19</b>	<b>N</b>	<b>18A</b>	
e.g. ②	<b>BMS</b>	<b>31</b>	<b>00</b>	<b>P18-19</b>	<b>Y</b>	<b>18A</b>	<b>L</b>
	①	②	③	④	⑤	⑥	⑦

■ Shell Size See Page 21~23

### Explanation

① **BMS** : Coupling (bayonet)

② **31** : Terminal (solder)

③ **00** : Front Mounting  
**20** : Rear Mounting

Protective Enclosure, Clamp/Gland

④ Insert:

**S(P) 18 - 19**

S: Socket  
P: Pin

Shell-size Arrangement No.

Insert P/N: See Page 9-18

⑤ Insert Orientation:

**N**: Cardinal Points; (Default)

**W, X, Y, Z**, See Page 19

⑥ Outlet Type:

◆ **\*\*A** : Cable Clamp (3057+3420)  
size

◆ **PG\*\*** : PG Nylon Cable Gland Outlet  
size

⑦ Shell Color:

◆ **H**: Black

◆ **L**: Army Green



## Part Number (Explanation)

### Receptacle ③

(Free)

e.g. **1** BMS 31 01 S18-19 N 18A

e.g. **2** BMS 31 01 P18-19 Y PG13.5 L

①

②

③

④

⑤

⑥

⑦

■ Shell Size See Page 24

### Explanation

① **BMS** : Coupling (bayonet)

② **31** : Terminal (solder)

③ **01** : Free Receptacle

④ Insert:

**S(P) 18 - 19**

S: Socket  
P: Pin

Shell-size Arrangement No.

Insert P/N: See Page 9-18

⑤ Insert Orientation:

**N**: Cardinal Points; (Default)

**W, X, Y, Z**, See Page 19

⑥ Outlet Type:

◆ **\*\*A** : Cable Clamp (3057+3420)  
size

◆ **PG \*\*** : PG Nylon Cable Gland Outlet  
size

⑦ Shell Color:

◆ **H**: Black

◆ **L**: Army Green



## Part Number (Explanation)

### Receptacle ④ (Adapter)

e.g. ① **BMS**    ② **31**    ③ **022**    ④ **S18-19P**    ⑤ **N**

e.g. ① **BMS**    ② **31**    ③ **011**    ④ **P18-19S**    ⑤ **W**    ⑥ **L**

### Explanation

① **BMS** : Coupling (bayonet)

② **31** : Terminal (solder)

③ **022** : Adapter (Square flange)

**011** : Adapter (Round flange)

④ Insert:

**S 18 - 19 P**

S: Socket  
P: Pin

Shell-size  
Arrangement  
No.

P: Pin  
S: Socket

Insert P/N: See Page 9-18

⑤ Insert Orientation:

**N**: Cardinal Points; (Default)

**W, X, Y, Z**, See Page 19

⑥ Shell Color:

◆ **H**: Black

◆ **L**: Army Green

■ Shell Size See Page 25

**022**



**011**







TUV SUD



ISO9001 ISO14001 ISO45001

## Part Number (Explanation)

### Plug

e.g. **1** BMS 31 06 P18-19 N 18A

e.g. **2** BMS 31 08 S18-19 Y PG13.5 L

1   
 2   
 3   
 4   
 5   
 6   
 7

### Explanation

- 1 BMS** : Coupling (bayonet)
- 2 31** : Terminal (solder)
- 3 06** : Straight  
**08** : 90° Angled
- 4 Insert:**  

**S (P) 18 - 19**

S: Socket  
P: Pin      Shell-size      Arrangement No.

Insert P/N: See [Page 9-18](#)
- 5 Insert Orientation:**  
**N**: Cardinal Points; (Default)  
**W, X, Y, Z**, See [Page 19](#)
- 6 Outlet Type:**
  - ◆ **\*\*A** : Cable Clamp (3057+3420)  
size
  - ◆ **PG\*\*** : PG Nylon Cable Gland  
size
  - ◆ **G\*\*** : G Nylon Hose Clamp  
size
- 7 Shell Color:**
  - ◆ **H**: Black
  - ◆ **L**: Army Green

■ Shell Size See [Page 26~28](#)



## Shell Size - Arrangement No.

View from mating face

● 16# ⊕ 12#

Type	14S							
P Shell Size- S Arrangement No.	P14S-2	S14S-2	P14S-5	S14S-5	P14S-6	S14S-6	P14S-7	S14S-7
Contact Arrangement	 4 Contact	 5 Contact	 6 Contact	 3 Contact				
Contact Size×Contact Qty.	16# × 4		16# × 5		16# × 6		16# × 3	
Service Rating	Inst.		Inst.		Inst.		A	

Type	14S		16S					
P Shell Size- S Arrangement No.	P14S-9	S14S-9	P16S-1	S16S-1	P16S-4	S16S-4	P16S-5	S16S-5
Contact Arrangement	 2 Contact	 7 Contact	 2 Contact	 3 Contact				
Contact Size×Contact Qty.	16# × 2		16# × 7		16# × 2		16# × 3	
Service Rating	A		A		D		A	

Type	16				18	
P Shell Size- S Arrangement No.	P16-9	S16-9	P16-10	S16-10	P18-1	S18-1
Contact Arrangement	 4 Contact	 3 Contact	 10 Contact			
Contact Size×Contact Qty.	16# × 2	12# × 2	12# × 3		16# × 10	
Service Rating	A		A		B.C.F.G = A Other = Inst.	

Type	18					
P Shell Size- S Arrangement No.	P18-3	S18-3	P18-10	S18-10	P18-11	S18-11
Contact Arrangement	 2 Contact	 4 Contact	 5 Contact			
Contact Size×Contact Qty.	12# × 2		12# × 4		12# × 5	
Service Rating	D		A		A	

## Shell Size - Arrangement No.

View from mating face

● 16# ⊕ 12#

Type	18					
P Shell Size- S Arrangement No.	P18-12	S18-12	P18-19	S18-19	P18-20	S18-20
Contact Arrangement	<p>Pin P S Socket 5 Contact</p>		<p>Pin P S Socket 10 Contact</p>		<p>Pin P S Socket 5 Contact</p>	
Contact Size×Contact Qty.	16# × 6		16# × 10		16# × 5	
Service Rating	A		A		A	

Type	18		20			
P Shell Size- S Arrangement No.	P18-22	S18-22	P20-3	S20-3	P20-4	S20-4
Contact Arrangement	<p>Pin P S Socket 3 Contact</p>		<p>Pin P S Socket 3 Contact</p>		<p>Pin P S Socket 4 Contact</p>	
Contact Size×Contact Qty.	16# × 3		12# × 3		12# × 4	
Service Rating	D		D		D	

Type	20					
P Shell Size- S Arrangement No.	P20-7	S20-7	P20-15	S20-15	P20-16	S20-16
Contact Arrangement	<p>Pin P S Socket 8 Contact</p>		<p>Pin P S Socket 7 Contact</p>		<p>Pin P S Socket 9 Contact</p>	
Contact Size×Contact Qty.	16# × 8		12# × 7		16# × 7	12# × 2
Service Rating	C.D.E.F = A    A.B.G.H = D		A		A	

Type	20					
P Shell Size- S Arrangement No.	P20-18	S20-18	P20-27	S20-27	P20-29	S20-29
Contact Arrangement	<p>Pin P S Socket 9 Contact</p>		<p>Pin P S Socket 14 Contact</p>		<p>Pin P S Socket 17 Contact</p>	
Contact Size×Contact Qty.	16# × 6	12# × 3	16# × 14		16# × 17	
Service Rating	A		A		A	

## Shell Size - Arrangement No.

View from mating face

● 16# ⊕ 12# ⊗ 8#

Type	20		22	
<b>P</b> Shell Size- <b>S</b> Arrangement No.	<b>P20-33</b>	<b>S20-33</b>	<b>P22-2</b>	<b>S22-2</b>
<b>Contact Arrangement</b>	<p>Pin <b>P</b></p> <p><b>11 Contact</b></p>	<p><b>S Socket</b></p> <p><b>11 Contact</b></p>	<p>Pin <b>P</b></p> <p><b>3 Contact</b></p>	<p><b>S Socket</b></p> <p><b>3 Contact</b></p>
Contact Size×Contact Qty.	16# × 11		8# × 3	
Service Rating	A		D	

Type	22			
<b>P</b> Shell Size- <b>S</b> Arrangement No.	<b>P22-5</b>	<b>S22-5</b>	<b>P22-8</b>	<b>S22-8</b>
<b>Contact Arrangement</b>	<p>Pin <b>P</b></p> <p><b>6 Contact</b></p>	<p><b>S Socket</b></p> <p><b>6 Contact</b></p>	<p>Pin <b>P</b></p> <p><b>2 Contact</b></p>	<p><b>S Socket</b></p> <p><b>2 Contact</b></p>
Contact Size×Contact Qty.	16# × 4	12# × 2	12# × 2	
Service Rating	D		E	

Type	22			
<b>P</b> Shell Size- <b>S</b> Arrangement No.	<b>P22-10</b>	<b>S22-10</b>	<b>P22-14</b>	<b>S22-14</b>
<b>Contact Arrangement</b>	<p>Pin <b>P</b></p> <p><b>4 Contact</b></p>	<p><b>S Socket</b></p> <p><b>4 Contact</b></p>	<p>Pin <b>P</b></p> <p><b>19 Contact</b></p>	<p><b>S Socket</b></p> <p><b>19 Contact</b></p>
Contact Size×Contact Qty.	16# × 4		16# × 19	
Service Rating	E		A	

## Shell Size - Arrangement No.

View from mating face

● 16# ⊕ 12# ⊙ 8#

Type	22			
<b>P</b> Shell Size- <b>S</b> Arrangement No.	<b>P22-18</b>	<b>S22-18</b>	<b>P22-19</b>	<b>S22-19</b>
<b>Contact Arrangement</b>	<p>Pin <b>P</b></p> <p><b>8 Contact</b></p>	<p><b>S</b> Socket</p> <p><b>8 Contact</b></p>	<p>Pin <b>P</b></p> <p><b>14 Contact</b></p>	<p><b>S</b> Socket</p> <p><b>14 Contact</b></p>
Contact Size×Contact Qty.	16# × 8		16# × 14	
Service Rating	C,D,E = A      Other = D		A	

Type	22			
<b>P</b> Shell Size- <b>S</b> Arrangement No.	<b>P22-20</b>	<b>S22-20</b>	<b>P22-22</b>	<b>S22-22</b>
<b>Contact Arrangement</b>	<p>Pin <b>P</b></p> <p><b>9 Contact</b></p>	<p><b>S</b> Socket</p> <p><b>9 Contact</b></p>	<p>Pin <b>P</b></p> <p><b>4 Contact</b></p>	<p><b>S</b> Socket</p> <p><b>4 Contact</b></p>
Contact Size×Contact Qty.	16# × 9		8# × 4	
Service Rating	A		A	

Type	22			
<b>P</b> Shell Size- <b>S</b> Arrangement No.	<b>P22-23</b>	<b>S22-23</b>	<b>P22-28</b>	<b>S22-28</b>
<b>Contact Arrangement</b>	<p>Pin <b>P</b></p> <p><b>8 Contact</b></p>	<p><b>S</b> Socket</p> <p><b>8 Contact</b></p>	<p>Pin <b>P</b></p> <p><b>7 Contact</b></p>	<p><b>S</b> Socket</p> <p><b>7 Contact</b></p>
Contact Size×Contact Qty.	12# × 8		12# × 7	
Service Rating	H = D      Other = A		A	

## Shell Size - Arrangement No.

View from mating face

● 16# ⊕ 12# ⊗ 8#

Type	24			
P Shell Size- S Arrangement No.	P24-2	S24-2	P24-5	S24-5
Contact Arrangement	<p>Pin P</p> <p>7 Contact</p>	<p>S Socket</p> <p>7 Contact</p>	<p>Pin P</p> <p>16 Contact</p>	<p>S Socket</p> <p>16 Contact</p>
Contact Size×Contact Qty.	12# × 7		16# × 16	
Service Rating	D		A	

Type	24			
P Shell Size- S Arrangement No.	P24-7	S24-7	P24-10	S24-10
Contact Arrangement	<p>Pin P</p> <p>16 Contact</p>	<p>S Socket</p> <p>16 Contact</p>	<p>Pin P</p> <p>7 Contact</p>	<p>S Socket</p> <p>7 Contact</p>
Contact Size×Contact Qty.	16# × 14	12# × 2	8# × 7	
Service Rating	A		A	

Type	24			
P Shell Size- S Arrangement No.	P24-11	S24-11	P24-20	S24-20
Contact Arrangement	<p>Pin P</p> <p>9 Contact</p>	<p>S Socket</p> <p>9 Contact</p>	<p>Pin P</p> <p>11 Contact</p>	<p>S Socket</p> <p>11 Contact</p>
Contact Size×Contact Qty.	12# × 6	8# × 3	16# × 9	12# × 2
Service Rating	A		D	

## Shell Size - Arrangement No.

View from mating face

Type	24			
<b>P</b> Shell Size- <b>S</b> Arrangement No.	<b>P24-22</b>	<b>S24-22</b>	<b>P24-28</b>	<b>S24-28</b>
<b>Contact Arrangement</b>	<p>4 Contact</p>	<p>4 Contact</p>	<p>24 Contact</p>	<p>24 Contact</p>
Contact Size×Contact Qty.	8# × 4		16# × 24	
Service Rating	D		Inst.	

Type	28			
<b>P</b> Shell Size- <b>S</b> Arrangement No.	<b>P28-10</b>	<b>S28-10</b>	<b>P28-11</b>	<b>S28-11</b>
<b>Contact Arrangement</b>	<p>7 Contact</p>	<p>7 Contact</p>	<p>22 Contact</p>	<p>22 Contact</p>
Contact Size×Contact Qty.	12# × 3	8# × 2	4# × 2	16# × 18
Service Rating	G = D	Other = A		A

Type	28			
<b>P</b> Shell Size- <b>S</b> Arrangement No.	<b>P28-12</b>	<b>S28-12</b>	<b>P28-15</b>	<b>S28-15</b>
<b>Contact Arrangement</b>	<p>26 Contact</p>	<p>26 Contact</p>	<p>35 Contact</p>	<p>35 Contact</p>
Contact Size×Contact Qty.	16# × 26		16# × 35	
Service Rating	A		A	

## Shell Size - Arrangement No.

View from mating face

● 16# ⊕ 12# ⊕ 4#

Type	28			
P Shell Size- S Arrangement No.	P28-16	S28-16	P28-20	S28-20
Contact Arrangement	<p>Pin P</p> <p>20 Contact</p>	<p>S Socket</p> <p>20 Contact</p>	<p>Pin P</p> <p>14 Contact</p>	<p>S Socket</p> <p>14 Contact</p>
Contact Size×Contact Qty.	16# × 20		16# × 4      12# × 10	
Service Rating	A			

Type	28			
P Shell Size- S Arrangement No.	P28-21	S28-21	P28-22	S28-22
Contact Arrangement	<p>Pin P</p> <p>37 Contact</p>	<p>S Socket</p> <p>37 Contact</p>	<p>Pin P</p> <p>6 Contact</p>	<p>S Socket</p> <p>6 Contact</p>
Contact Size×Contact Qty.	16# × 37		16# × 3      4# × 3	
Service Rating	A		D	

Type	28		32	
P Shell Size- S Arrangement No.	P28-A9	S28-A9	P32-7	S32-7
Contact Arrangement	<p>Pin P</p> <p>9 Contact</p>	<p>S Socket</p> <p>9 Contact</p>	<p>Pin P</p> <p>35 Contact</p>	<p>S Socket</p> <p>35 Contact</p>
Contact Size×Contact Qty.	16# × 5      4# × 4		16# × 28      12# × 7	
Service Rating	A		A.B.h.j = Inst.      Other = A	



## Shell Size - Arrangement No.

View from mating face

● 16# ⊕ 12# ⊕ 4#

Type	32			
P Shell Size- S Arrangement No.	P32-13	S32-13	P32-17	S32-17
Contact Arrangement	<p>Pin P</p> <p>23 Contact</p>	<p>S Socket</p> <p>23 Contact</p>	<p>Pin P</p> <p>4 Contact</p>	<p>S Socket</p> <p>4 Contact</p>
Contact Size×Contact Qty.	16# × 18	12# × 5	4# × 4	4# × 4
Service Rating	D		D	

Type	32			
P Shell Size- S Arrangement No.	P32-22	S32-22	P32-73	S32-73
Contact Arrangement	<p>Pin P</p> <p>54 Contact</p>	<p>S Socket</p> <p>54 Contact</p>	<p>Pin P</p> <p>46 Contact</p>	<p>S Socket</p> <p>46 Contact</p>
Contact Size×Contact Qty.	16# × 54		16# × 46	
Service Rating	A		A	

Type	36	
P Shell Size- S Arrangement No.	P36-7	S36-7
Contact Arrangement	<p>Pin P</p> <p>47 Contact</p>	<p>S Socket</p> <p>47 Contact</p>
Contact Size×Contact Qty.	16# × 40	12# × 7
Service Rating	A	

## Shell Size - Arrangement No.

View from mating face

● 16# ⊕ 12#

Type	36	
<b>P</b> Shell Size- <b>S</b> Arrangement No.	<b>P36-A22</b>	<b>S36-A22</b>
<b>Contact Arrangement</b>	<p>Pin <b>P</b></p> <p><b>22</b>Contact</p>	<p><b>S</b> Socket</p> <p><b>22</b>Contact</p>
Contact Size×Contact Qty.	12# × 22	
Service Rating	D	

Type	36	
<b>P</b> Shell Size- <b>S</b> Arrangement No.	<b>P36-52</b>	<b>S36-52</b>
<b>Contact Arrangement</b>	<p>Pin <b>P</b></p> <p><b>52</b>Contact</p>	<p><b>S</b> Socket</p> <p><b>52</b>Contact</p>
Contact Size×Contact Qty.	16# × 52	
Service Rating	A	



TUV SUD



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华伦连接器  
HuaLun Connector

### Shell Size - Arrangement No.

View from mating face

● 16# ⊕ 12#

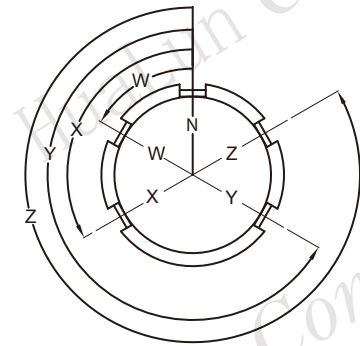
Type	40	
<b>P</b> Shell Size- <b>S</b> Arrangement No.	<b>P40-1</b>	<b>S40-1</b>
<b>Contact Arrangement</b>	<p>Pin <b>P</b></p> <p><b>30</b> Contact</p>	<p><b>S</b> Socket</p> <p><b>30</b> Contact</p>
Contact Size×Contact Qty.	16# × 24	12# × 6
Service Rating	D	

Type	40	
<b>P</b> Shell Size- <b>S</b> Arrangement No.	<b>P40-A60</b>	<b>S40-A60</b>
<b>Contact Arrangement</b>	<p>Pin <b>P</b></p> <p><b>60</b> Contact</p>	<p><b>S</b> Socket</p> <p><b>60</b> Contact</p>
Contact Size×Contact Qty.	16# × 60	
Service Rating	A	

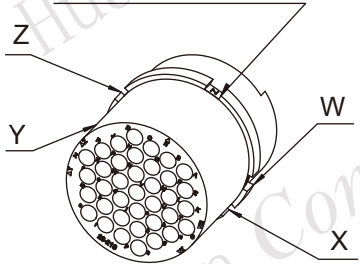
## Angular Displacement Of Insert

When more than two connectors with same Insert are applied to a device together, to alternate the inserts to different angulars can prevent mismatching.

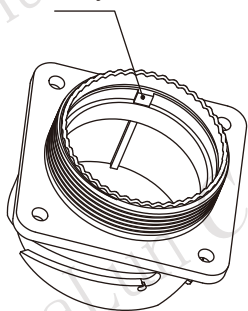
Front face of pin insert



**N**: Angular Position



Key



Insert Code	Angular Displacement Of Insert				
	N	W	X	Y	Z
14S-2	0	—	120	240	—
14S-5	0	—	110	—	—
14S-6	0	—	—	—	—
14S-7	0	90	180	270	—
14S-9	0	70	145	215	290
16S-1	0	80	—	—	280
16S-4	0	35	110	250	325
16S-5	0	70	145	215	290
16-9	0	35	110	250	325
16-10	0	90	180	270	—
18-1	0	70	145	215	290
18-3	0	35	110	250	325
18-10	0	—	120	120	—
18-11	0	—	170	265	—
18-12	0	80	—	—	280
18-19	0	—	120	240	—
18-20	0	90	180	270	—
18-22	0	70	145	215	290
20-3	0	70	145	215	290
20-4	0	45	110	250	—
20-7	0	80	110	250	280
20-15	0	80	—	—	280
20-16	0	80	110	250	280
20-18	0	35	110	250	325
20-27	0	35	110	250	325
20-29	0	80	—	—	280
20-33	0	—	—	—	—
22-2	0	70	145	215	290
22-5	0	35	110	250	325
22-8	0	35	110	250	325
22-10	0	35	110	250	325
22-14	0	80	110	250	280
22-18	0	80	110	250	280
22-19	0	80	110	250	280
22-20	0	35	110	250	325
22-22	0	—	110	250	—
22-23	0	35	—	250	—
22-28	0	80	—	—	280
24-2	0	80	—	—	280
24-5	0	80	110	250	280
24-7	0	80	110	250	280
24-10	0	80	—	—	280
24-11	0	35	110	250	325
24-20	0	80	110	250	280
24-22	0	45	110	250	—
24-28	0	80	110	250	280
28-10	0	80	110	250	280
28-11	0	80	110	250	280
28-12	0	90	180	270	—
28-15	0	80	110	250	280
28-16	0	80	110	250	280
28-20	0	80	110	250	280
28-21	0	80	110	250	280
28-22	0	70	145	215	290
28-A9	0	110	250	260	280
32-7	0	80	125	235	280
32-13	0	80	110	250	280
32-17	0	45	110	250	—
32-22	0	80	110	250	280
32-73	0	36	—	—	—
36-7	0	80	110	250	280
36-A22	0	80	110	250	280
36-52	0	72	144	216	288
40-1	0	65	130	235	300
40-A60	0	80	110	250	280

**Note:** 32-22 has two angles of U (100) and V (260), besides N, W, X, Y and Z.



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华伦连接器  
HuaLun Connector

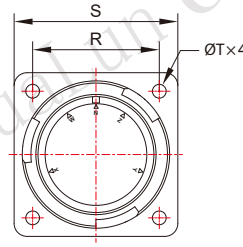
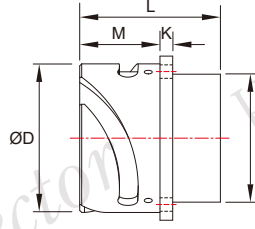
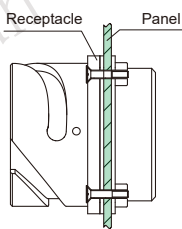
## Size of Receptacle

### Receptacle ①

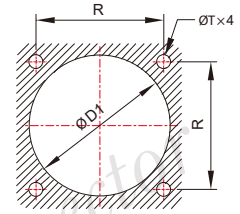
(Panel Mounted)  
(No Protective Enclosure)

#### Front Mounting

### BMS3102



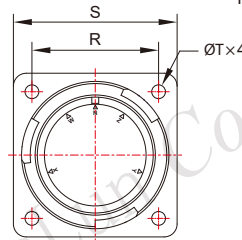
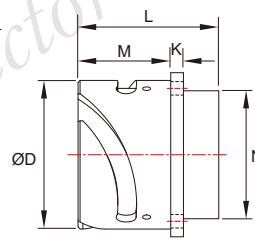
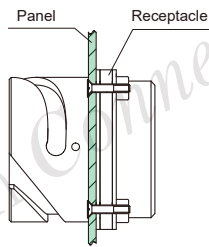
Receptacle Mounting &amp; Mounting Hole



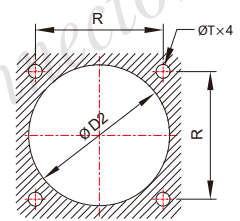
Shell Spec	$\text{ØD}_{-0.15}^0$	$M_{+0.2}^0$	$L_{\pm 0.3}$	$K_{\pm 0.2}$	$\text{ØN}_{\max}$	$S_{\pm 0.3}$	$R_{\pm 0.1}$	$\text{ØT}_{+0.1}^0$	$\text{ØD1}_{\pm 0.2}$
14S	24.6	14.2	25.7	3.2	19.2	30.0	23.0	3.2	20.0
16S	27.4				22.4	32.5	24.6		23.2
16					25.6	35.0	27.0		26.6
18	30.8				29.0	38.0	29.4		30.0
20	34.2	32.2	41.0		31.8	33.2			
22	37.4	35.3	44.5		34.9	36.3			
24	40.9	41.4	50.8		39.7	42.4			
28	46.7	33.8	37.3		47.8	57.0	44.5	3.7	48.8
32	53.4				54.1	63.5	49.2		55.0
36	59.6	22.2	37.3		59.0	69.9	55.5	4.3	60.0
40	65.5								

#### Rear Mounting

### BMS3122



Receptacle Mounting &amp; Mounting Hole



Shell Spec	$\text{ØD}_{-0.15}^0$	$M_{+0.2}^0$	$L_{\pm 0.3}$	$K_{\pm 0.2}$	$\text{ØN}_{\max}$	$S_{\pm 0.3}$	$R_{\pm 0.1}$	$\text{ØT}_{+0.1}^0$	$\text{ØD2}_{\pm 0.2}$
14S	24.6	18.2	24.7	3.2	19.2	30.0	23.0	3.2	26.0
16S	27.4				22.4	32.5	24.6		28.4
16					25.6	35.0	27.0		32.0
18	30.8				29.0	38.0	29.4		35.5
20	34.2	23.05	33.8		32.2	41.0	31.8	3.7	38.5
22	37.4				35.3	44.5	34.9		42.0
24	40.9	24.05	37.3		41.4	50.8	39.7	4.3	48.0
28	46.7				47.8	57.0	44.5		55.0
32	53.4	24.05	37.3		54.1	63.5	49.2	4.3	61.5
36	59.6				59.0	69.9	55.5		67.0
40	65.5								

## Size of Receptacle

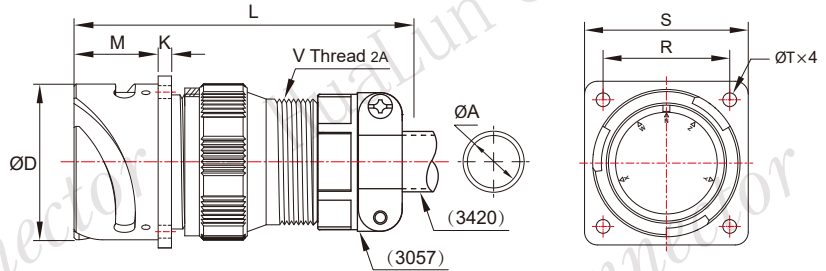
### Receptacle ②

(Protective Enclosure)  
(Clamp/Gland)

Front Mounting

### BMS3100 Insulator \*\*A

④ ⑤

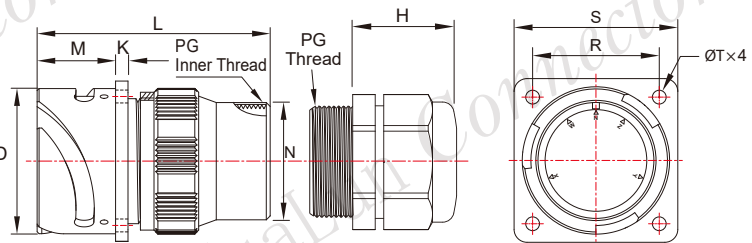


Shell Spec	ØD <sub>0.15</sub>	V Thread 2A	Cable Clamp (3057)+(3420)	OD of Cable(mm)	ØA <sub>max</sub>	L	M <sup>+0.2</sup>	K <sub>±0.2</sub>	S <sub>±0.3</sub>	R <sub>±0.1</sub>	ØT <sup>+0.1</sup>
14S	24.6	3/4-20UNEF	<b>14A</b>	Ø 5-7	7.92	75~77	14.2	3.2	30.0	23.0	3.2
16S	27.4	7/8-20UNEF	<b>16A</b>	Ø 8-11	11.1						
16											
18	30.8	1-20UNEF	<b>18A</b>	Ø 11-14	14.3	83~85	20.2	3.2	35.0	27.0	
20	34.2	1 3/16-18UNEF	<b>20A</b>	Ø 14-16	16.2						
22	37.4		<b>22A</b>								
24	40.9	1 7/16-18UNEF	<b>24A</b>	Ø 16-19	19.1	86~88	20.2	3.2	44.5	34.9	
28	46.7		<b>28A</b>								
32	53.4	1 3/4-18UNS	<b>32A</b>	Ø 19-23	23.8	88~91	20.2	3.2	57.0	44.5	4.3
36	59.6	2-18UNS	<b>36A</b>	Ø 24-31	31.7	90~92					
40	65.5	2 1/4-16UN	<b>40A</b>	Ø 31-34	35.0	103~105	20.2	3.2	69.9	55.5	

Front Mounting

### BMS3100 Insulator PG\*\*

④ ⑤



Shell Spec	ØD <sub>0.15</sub>	PG Inner Thread	OD of Cable(mm)	ØN <sub>max</sub>	L <sub>±0.3</sub>	M <sup>+0.2</sup>	K <sub>±0.2</sub>	H	S <sub>±0.3</sub>	R <sub>±0.1</sub>	ØT <sup>+0.1</sup>
14S	24.6	<b>PG9</b>	Ø 4-8	19.2	52.7	14.2	3.2	22.0	30.0	23.0	3.2
16S	27.4	<b>PG13.5</b>	Ø 6-12	24.6							
16					57.5	27.0	32.5	24.6			
18	30.8	<b>PG16</b>	Ø 8.5-14	27.6	58.0				20.2	3.2	
20	34.2	<b>PG21</b>	Ø 12.5-18	33.6							
22	37.4				<b>PG25</b>	Ø 14-20	37.6	31.0	41.0	31.8	
24	40.9	<b>PG29</b>	Ø 18-25	42.0	33.0	44.5	34.9				
28	46.7							<b>PG36</b>	Ø 24-32	51.2	37.0
32	53.4	<b>PG36</b>	Ø 24-32	51.2	48.0	63.5	49.2				
36	59.6							<b>PG36</b>	Ø 24-32	51.2	48.0
40	65.5	<b>PG36</b>	Ø 24-32	51.2	48.0	69.9	55.5				



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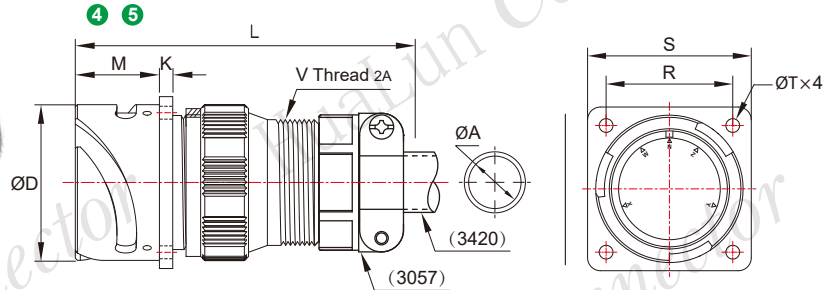
## Size of Receptacle

### Receptacle ②

(Protective Enclosure)  
(Clamp/Gland)

Rear Mounting

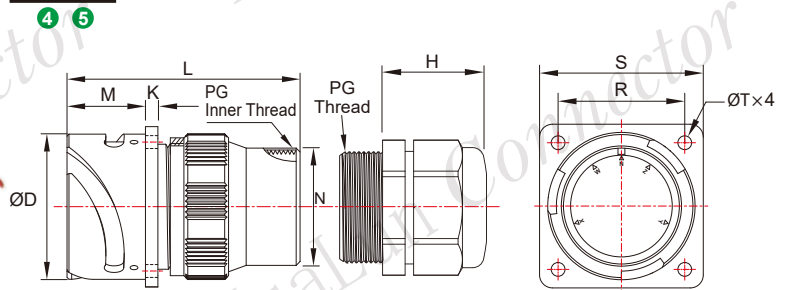
### BMS3120 Insulator \*\*A



Shell Spec	$\text{ØD}_{-0.15}^0$	V Thread 2A	Cable Clamp (3057)+(3420)	OD of Cable(mm)	$\text{ØA}_{\text{max}}$	L	$M_{+0.2}^0$	$K_{\pm 0.2}$	$S_{\pm 0.3}$	$R_{\pm 0.1}$	$\text{ØT}_{+0.1}^0$		
14S	24.6	$3/4$ -20UNEF	<b>14A</b>	$\text{Ø} 5$ -7	7.92	75~77	18.2	3.2	30.0	23.0	3.2		
16S	27.4	$7/8$ -20UNEF	<b>16A</b>	$\text{Ø} 8$ -11	11.1	81~83	23.05		32.5	24.6			
16						83~85			35.0	27.0			
18	30.8	1-20UNEF	<b>18A</b>	$\text{Ø} 11$ -14	14.3	83~85			24.05	38.0		29.4	3.7
20	34.2	$1\frac{3}{16}$ -18UNEF	<b>20A</b>	$\text{Ø} 14$ -16	16.2					86~88		41.0	
22	37.4		<b>22A</b>			44.5				34.9			
24	40.9	$1\frac{7}{16}$ -18UNEF	<b>24A</b>	$\text{Ø} 16$ -19	19.1	88~91		50.8		39.7	4.3		
28	46.7		<b>28A</b>				57.0	44.5					
32	53.4	$1\frac{3}{4}$ -18UNS	<b>32A</b>	$\text{Ø} 19$ -23	23.8	90~92	63.5	49.2					
36	59.6	2-18UNS	<b>36A</b>	$\text{Ø} 24$ -31	31.7	103~105	69.9	55.5					
40	65.5	$2\frac{1}{4}$ -16UN	<b>40A</b>	$\text{Ø} 31$ -34	35.0								

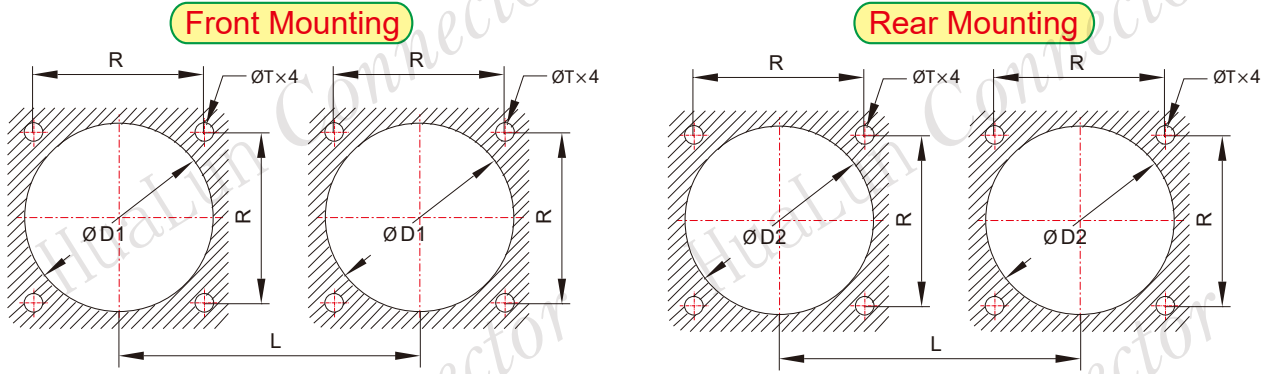
Rear Mounting

### BMS3120 Insulator PG\*\*



Shell Spec	$\text{ØD}_{-0.15}^0$	PG Inner Thread	OD of Cable(mm)	$\text{ØN}_{\text{max}}$	$L_{\pm 0.3}$	$M_{+0.2}^0$	$K_{\pm 0.2}$	H	$S_{\pm 0.3}$	$R_{\pm 0.1}$	$\text{ØT}_{+0.1}^0$
14S	24.6	<b>PG9</b>	$\text{Ø} 4$ -8	19.2	52.7	18.2	3.2	22.0	30.0	23.0	3.2
16S	27.4	<b>PG13.5</b>	$\text{Ø} 6$ -12	24.6				57.5	27.0	32.5	
16					28.0	35.0			27.0		
18	30.8	<b>PG16</b>	$\text{Ø} 8.5$ -14	27.6	23.05	24.05		31.0	38.0	29.4	
20	34.2	<b>PG21</b>	$\text{Ø} 12.5$ -18	33.6				33.0	41.0	31.8	
22	37.4				37.0			44.5	34.9		
24	40.9	<b>PG25</b>	$\text{Ø} 14$ -20	37.6	58.0		37.0	50.8	39.7	4.3	
28	46.7						37.0	57.0	44.5		
32	53.4	<b>PG29</b>	$\text{Ø} 18$ -25	42.0	24.05		48.0	63.5	49.2		
36	59.6	<b>PG36</b>	$\text{Ø} 24$ -32	51.2		69.9		55.5			
40	65.5				69.9	55.5					

## Receptacle Mounting & Mounting Hole



Shell Spec	$\varnothing T^{+0.1}_0$	$\varnothing D1_{\pm 0.2}$	$\varnothing D2_{\pm 0.2}$	$R_{\pm 0.1}$	L	Screw Spec
14S	3.2	20.0	26.0	23.0	33.0	M3 × 10
16S		23.2	28.4	24.6	34.4	
16		26.6	32.0	27.0	38.3	
18		30.0	35.5	29.4	41.7	
20		33.2	38.5	31.8	45.2	
22	3.7	36.3	42.0	34.9	48.7	M4 × 12
24		42.4	48.0	39.7	55.5	
28	4.3	48.8	55.0	44.5	62.4	
32		55.0	61.5	49.2	69.0	
36		60.0	67.0	55.5	75.0	
40						





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华伦连接器  
HuaLun Connector

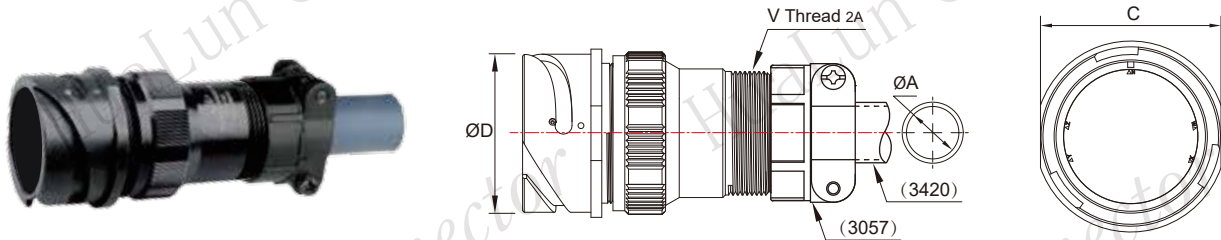
## Size of Receptacle

**Receptacle ③**

(Free)

**Free BMS3101 Insulator \*\*A**

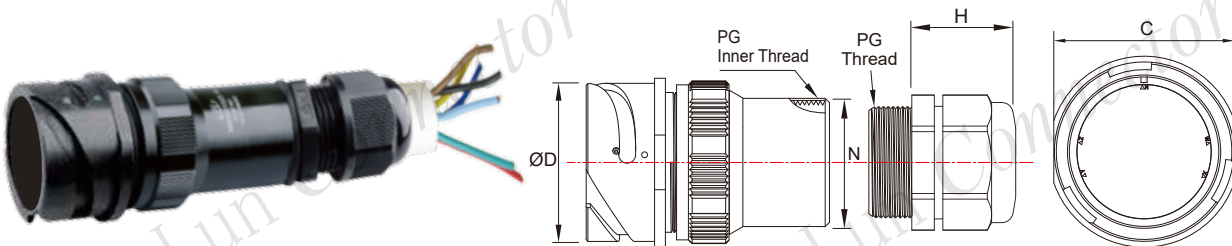
④ ⑤



Shell Spec	ØD <sub>0.15</sub>	V Thread 2A	Cable Clamp (3057)+(3420)	OD of Cable(mm)	ØA <sub>max</sub>	C
14S	24.6	3/4-20UNEF	<b>14A</b>	Ø 5-7	7.92	25.2
16S	27.4	7/8-20UNEF	<b>16A</b>	Ø 8-11	11.1	28.8
16						31.5
18	30.8	1-20UNEF	<b>18A</b>	Ø 11-14	14.3	34.6
20	34.2	1 <sup>3</sup> / <sub>16</sub> -18UNEF	<b>20A</b>	Ø 14-16	16.2	38.0
22	37.4		<b>22A</b>			41.5
24	40.9	1 <sup>7</sup> / <sub>16</sub> -18UNEF	<b>24A</b>	Ø 16-19	19.1	47.0
28	46.7		<b>28A</b>			53.7
32	53.4	1 <sup>3</sup> / <sub>4</sub> -18UNS	<b>32A</b>	Ø 19-23	23.8	60.2
36	59.6	2-18UNS	<b>36A</b>	Ø 24-31	31.7	66.2
40	65.5	2 <sup>1</sup> / <sub>4</sub> -16UN	<b>40A</b>	Ø 31-34	35.0	

**Free BMS3101 Insulator PG\*\***

④ ⑤

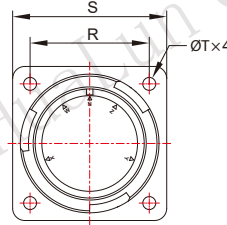
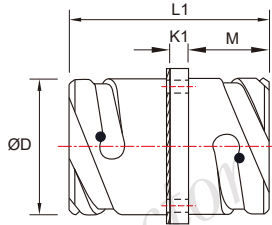


Shell Spec	ØD <sub>0.15</sub>	PG Inner Thread	OD of Cable(mm)	ØN <sub>max</sub>	H	C
14S	24.6	<b>PG9</b>	Ø 4-8	19.2	22.0	25.2
16S	27.4	<b>PG13.5</b>	Ø 6-12	24.6	27.0	28.8
16						31.5
18	30.8	<b>PG16</b>	Ø 8.5-14	27.6	28.0	34.6
20	34.2	<b>PG21</b>	Ø 12.5-18	33.6	31.0	38.0
22	37.4					41.5
24	40.9	<b>PG25</b>	Ø 14-20	37.6	33.0	47.0
28	46.7					53.7
32	53.4	<b>PG29</b>	Ø 18-25	42.0	37.0	60.2
36	59.6	<b>PG36</b>	Ø 24-32	51.2	48.0	66.2
40	65.5					

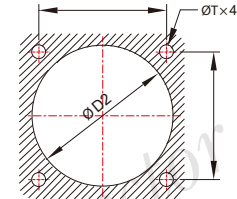
## Size of Receptacle

### Receptacle ④ (Adapter)

#### Adapter **BMS31022** (Square flange)

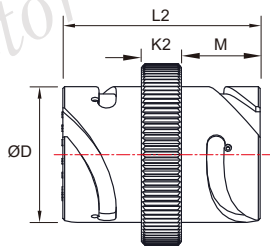


Receptacle Mounting & Mounting Hole



Shell Spec	$\text{ØD}_{-0.15}^0$	$L1_{\pm 0.7}$	$K1_{\pm 0.2}$	$M_{+0.2}^0$	$S_{\pm 0.3}$	$R_{\pm 0.1}$	$\text{ØT}_{+0.1}^0$	$\text{ØD2}_{\pm 0.2}$
14S	24.6	37.5	3.2	14.20	30.0	23.0	3.2	26.0
16S	27.4				32.5	24.6		28.4
16	27.4	51.4	4.0	19.0	35.0	27.0		32.0
18	30.8				38.0	29.4		35.5
20	34.2				41.0	31.8		38.5
22	37.4			44.5	34.9	42.0		
24	40.9			50.8	39.7	48.0		
28	46.7			57.0	44.5	55.0		
32	53.4	22.2			63.5	49.2	4.3	61.5
36	59.6				69.9	55.5	67.0	
40	65.5							

#### Adapter **BMS31011** (Round flange)



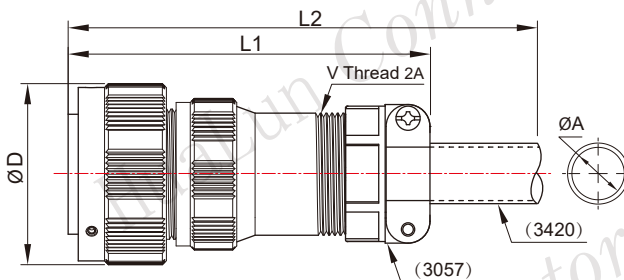
Shell Spec	$\text{ØD}_{-0.15}^0$	$L2_{\pm 0.7}$	$K2_{\pm 0.2}$	$M_{+0.2}^0$
14S	24.6	39.4	11.0	14.20
16S	27.4			
16	27.4	49.0		19.0
18	30.8			
20	34.2			
22	37.4	52.2		20.6
24	40.9			
28	46.7	55.4	22.2	
32	53.4			
36	59.6			
40	65.5			

## Size of Plug

### Plug

#### BMS3106 Insulator **\*\*A** (Cable Clamp)

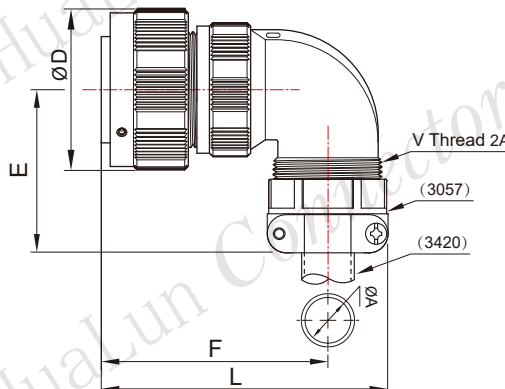
4 5



Shell Spec	$\text{ØD}_{-0.15}^0$	V Thread 2A	Cable Clamp (3057) + (3420)	OD of Cable(mm)	$\text{ØA}_{\text{max}}$	L1 max	L2 max
14S	29.2	$3/4$ -20UNEF	<b>14A</b>	$\text{Ø} 5-7$	7.92	82	115
16S	32.0	$7/8$ -20UNEF	<b>16A</b>	$\text{Ø} 8-11$	11.1	87	118
16							
18	36.5	1-20UNEF	<b>18A</b>	$\text{Ø} 11-14$	14.3	89	121
20	39.9	$1^{3/16}$ -18UNEF	<b>20A</b>	$\text{Ø} 14-16$	16.2	92	
22	43.1		<b>22A</b>				
24	46.6	$1^{7/16}$ -18UNEF	<b>24A</b>	$\text{Ø} 16-19$	19.1	95	124
28	53.4		<b>28A</b>				
32	60.1	$1^{3/4}$ -18UNS	<b>32A</b>	$\text{Ø} 19-23$	23.8	96	127
36	66.3	2-18UNS	<b>36A</b>	$\text{Ø} 24-31$	31.7	100	
40	72.4	$2^{1/4}$ -16UN	<b>40A</b>	$\text{Ø} 31-34$	35.0	112	

#### BMS3108 Insulator **\*\*A** (Cable Clamp)

4 5



Shell Spec	$\text{ØD}_{-0.15}^0$	V Thread 2A	Cable Clamp (3057) + (3420)	OD of Cable(mm)	$\text{ØA}_{\text{max}}$	E max	F max	L max
14S	29.2	$3/4$ -20UNEF	<b>14A</b>	$\text{Ø} 5-7$	7.92	40.0	47.0	70.0
16S	32.0	$7/8$ -20UNEF	<b>16A</b>	$\text{Ø} 8-11$	11.1	40.8	59.5	72.5
16								
18	36.5	1-20UNEF	<b>18A</b>	$\text{Ø} 11-14$	14.3	41.7	60.4	75.5
20	39.9	$1^{3/16}$ -18UNEF	<b>20A</b>	$\text{Ø} 14-16$	16.2	42.6	61.8	79.0
22	43.1		<b>22A</b>					
24	46.6	$1^{7/16}$ -18UNEF	<b>24A</b>	$\text{Ø} 16-19$	19.1	54.6	68.4	89.5
28	53.4		<b>28A</b>					
32	60.1	$1^{3/4}$ -18UNS	<b>32A</b>	$\text{Ø} 19-23$	23.8	58.5	72.9	98.6
36	66.3	2-18UNS	<b>36A</b>	$\text{Ø} 24-31$	31.7	62.0	73.9	102.0
40	72.4	$2^{1/4}$ -16UN	<b>40A</b>	$\text{Ø} 31-34$	35.0	79.0	76.9	108.7

## Size of Plug

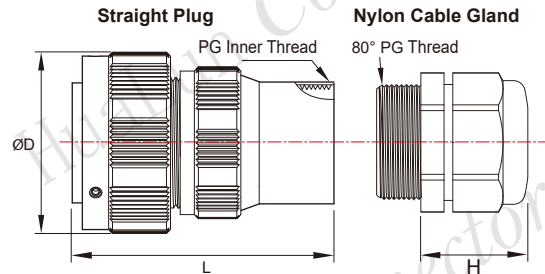
### Plug

#### BMS3106 Insulator **PG\*\*** (Nylon Cable Gland)

4 5



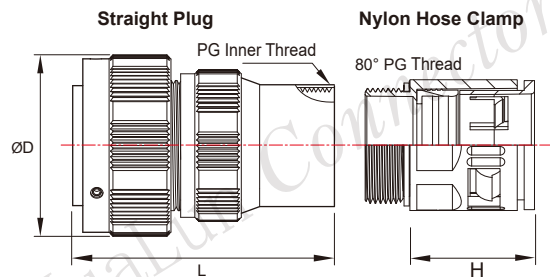
IP67



Shell Spec	ØD <sub>-0.15</sub>	PG Inner Thread	OD of Cable(mm)	L	H
14S	29.2	<b>PG9</b>	Ø 4-8	50	22.0
16S	32.0	<b>PG13.5</b>	Ø 6-12		60
16				28.0	
18	36.5	<b>PG16</b>	Ø 8.5-14	65	31.0
20	39.9	<b>PG21</b>	Ø 12.5-18		80
22	43.1			37.0	
24	46.6	<b>PG25</b>	Ø 14-20	80	48.0
28	53.4	<b>PG29</b>	Ø 18-25		80
32	60.1			48.0	
36	66.3	<b>PG36</b>	Ø 24-32	80	48.0
40	72.4				48.0

#### BMS3106 Insulator **G\*\*** (Nylon Hose Clamp)

4 5

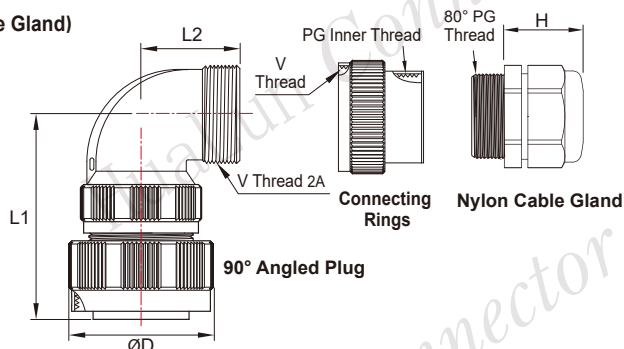


Shell Spec	ØD <sub>-0.15</sub>	PG Inner Thread	OD of Cable(mm)	L	Nylon Hose Clamp Code
14S	29.2	PG9	Ø 4-8	50	<b>G9</b>
16S	32.0	PG13.5	Ø 6-12		60
16				<b>G16</b>	
18	36.5	PG16	Ø 8.5-14	65	<b>G21</b>
20	39.9	PG21	Ø 12.5-18		80
22	43.1			<b>G29</b>	
24	46.6	PG25	Ø 14-20	80	<b>G36</b>
28	53.4	PG29	Ø 18-25		80
32	60.1			<b>G36</b>	
36	66.3	PG36	Ø 24-32	80	<b>G36</b>
40	72.4				<b>G36</b>

## Size of Plug

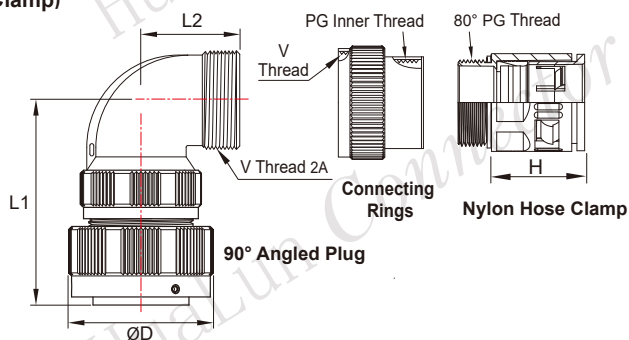
### Plug

#### BMS3108 Insulator PG\*\* (Nylon Cable Gland)



Shell Spec	$\text{ØD}_{-0.15}^0$	$L1_{\pm 0.2}$	$L2_{\pm 0.2}$	V Thread 2A	PG Inner Thread	OD of Cable(mm)	H
14S	29.2	47	30	$\frac{3}{4}$ -20UNEF	PG9	$\text{Ø}$ 4-8	22.0
16S	32.0	48		$\frac{7}{8}$ -20UNEF	PG13.5	$\text{Ø}$ 6-12	27.0
16		57			PG16	$\text{Ø}$ 8.5-14	28.0
18	36.5	58	35	1-20UNEF	PG21	$\text{Ø}$ 12.5-18	31.0
20	39.9	61		$1\frac{3}{16}$ -18UNEF	PG25	$\text{Ø}$ 14-20	33.0
22	43.1						
24	46.6	66	40	$1\frac{7}{16}$ -18UNEF	PG29	$\text{Ø}$ 18-25	37.0
28	53.4						
32	60.1	72	45	$1\frac{3}{4}$ -18UNS	PG36	$\text{Ø}$ 24-32	48.0
36	66.3	75	50	2-18UNS			
40	72.4	78	55	$2\frac{1}{4}$ -16UN			

#### BMS3108 Insulator G\*\* (Nylon Hose Clamp)



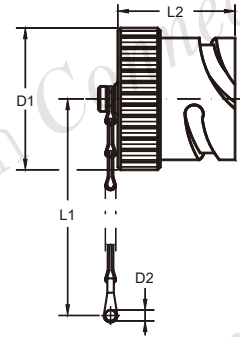
Shell Spec	$\text{ØD}_{-0.15}^0$	$L1_{\pm 0.2}$	$L2_{\pm 0.2}$	V Thread 2A	PG Inner Thread	OD of Cable(mm)	Nylon Hose Clamp Code
14S	29.2	47	30	$\frac{3}{4}$ -20UNEF	PG9	$\text{Ø}$ 4-8	G9
16S	32.0	48		$\frac{7}{8}$ -20UNEF	PG13.5	$\text{Ø}$ 6-12	G13.5
16		57					PG16
18	36.5	58	35	1-20UNEF	PG21	$\text{Ø}$ 12.5-18	G21
20	39.9	61		$1\frac{3}{16}$ -18UNEF	PG25	$\text{Ø}$ 14-20	G25
22	43.1						
24	46.6	66	40	$1\frac{7}{16}$ -18UNEF	PG29	$\text{Ø}$ 18-25	G29
28	53.4						
32	60.1	72	45	$1\frac{3}{4}$ -18UNS	PG36	$\text{Ø}$ 24-32	G36
36	66.3	75	50	2-18UNS			
40	72.4	78	55	$2\frac{1}{4}$ -16UN			

## Protection Cap-Parts To Be Ordered Separately

Plug  
Protection Cap



Size of Cap



Unit: mm

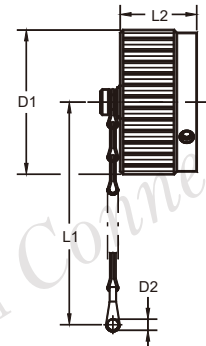
Dust Cap Code	Application
<b>BMS25042-14</b>	Shell 14 Plug
<b>BMS25042-16</b>	Shell 16 Plug
<b>BMS25042-18</b>	Shell 18 Plug
<b>BMS25042-20</b>	Shell 20 Plug
<b>BMS25042-22</b>	Shell 22 Plug
<b>BMS25042-24</b>	Shell 24 Plug
<b>BMS25042-28</b>	Shell 28 Plug
<b>BMS25042-32</b>	Shell 32 Plug
<b>BMS25042-36</b>	Shell 36 Plug
<b>BMS25042-40</b>	Shell 40 Plug

Shell Spec	D1 Max	D2 +0.6 -0	L1 Max	L2 Max
14S	27.5	4.3	100	29
16S	30.0			
16	33.5		115	37
18	37.0			
20	40.0			
22	43.5			
24	49.5	5.5	130	37
28	56.0			
32	62.5		190	37
36	73.5			
40	73.5			

Receptacle  
Protection Cap



Size of Cap



Unit: mm

Dust Cap Code	Application
<b>BMS25043-14</b>	Shell 14 Receptacle
<b>BMS25043-16</b>	Shell 16 Receptacle
<b>BMS25043-18</b>	Shell 18 Receptacle
<b>BMS25043-20</b>	Shell 20 Receptacle
<b>BMS25043-22</b>	Shell 22 Receptacle
<b>BMS25043-24</b>	Shell 24 Receptacle
<b>BMS25043-28</b>	Shell 28 Receptacle
<b>BMS25043-32</b>	Shell 32 Receptacle
<b>BMS25043-36</b>	Shell 36 Receptacle
<b>BMS25043-40</b>	Shell 40 Receptacle

Shell Spec	D1 Max	D2 +0.6 -0	L1 Max	L2 Max
14S	30.5	4.3	90	20
16S	33.0			
16	37.5		100	25
18	41.0			
20	44.0			
22	47.5			
24	54.5	5.5	115	25
28	61.0			
32	67.5		160	25
36	73.5			
40	73.5			



TUV SUD

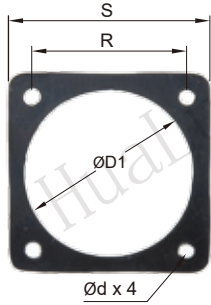


ISO9001 ISO14001 ISO45001

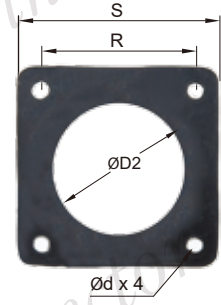
### Mounting Plate & Gasket

#### Rubber Sealing Gasket Size

##### ● Rear Mounting

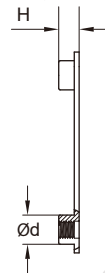
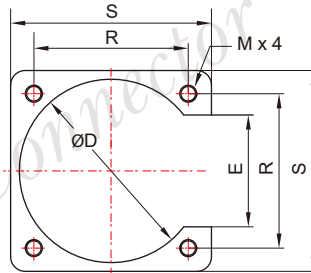
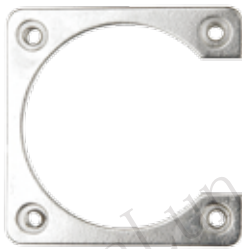


##### ● Front Mounting



Shell Size	Rear Mounting ØD1	R <sub>±0.1</sub>	S <sub>±0.3</sub>	Ød <sub>+0.1</sub> <sup>0</sup>	Front Mounting ØD2
14S	24.9	23.0	28.6	3.5	22.1
16S、16	28.2	24.6	32.5		25.3
18	30.9	27.0	35.0		28.4
20	34.3	29.4	38.0		31.6
22	37.7	31.8	41.3		34.8
24	41.2	34.9	44.5	3.7	38
28	46.8	39.7	50.8		44.3
32	53.4	44.5	57.2	4.5	50.7
36	59.6	49.2	63.5		57
40	65.5	55.5	69.9		61.9

#### Mounting Plate(Metal) Order Code, Size



Code	Shell Size	R <sub>±0.1</sub>	S <sub>±0.3</sub>	ØD	E	H	Ød <sub>+0.1</sub> <sup>0</sup>	Thread M	Screw Spec
<b>SG14</b>	14S	23.0	30.0	24.9	15.8	2.6	6.3	M3	M3 x 10
<b>SG16</b>	16S、16	24.6	32.3	28.2	17.9				
<b>SG18</b>	18	27.0	34.6	30.9	20.2				
<b>SG20</b>	20	29.4	38.5	34.3	22.5				
<b>SG22</b>	22	31.8	40.8	37.7	23.5				
<b>SG24</b>	24	34.9	44.8	41.2	25.9				
<b>SG28</b>	28	39.7	51.2	46.8	29.1	3.0	8.0	M4	M4 x 12
<b>SG32</b>	32	44.5	59.1	53.4	30.7				
<b>SG36</b>	36	49.2	63.9	59.6	35.5				
<b>SG40</b>	40	55.5	74.7	65.5	38.6				



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