HVSP High Voltage Small Plastic



PRODUCT INTRODUCTION



HVSP series is High Voltage Small size Plastic connector, it has rotation and polarization integration, can be used in EV & Energy Storge. It's a prime solution for limited space and cost.

Polarization / Alternate positions

To avoid cross plugging problems in applications, we designed 2 types:

- HVSPN Alternate keyway no rotation
- HVSP Alternate keyway with rotation and polarization integration

Product Series	HVSPN R6	HVSP R6	HVSP R8	HVSP R10
Rated Current	100A	100A	150A to 180A	180A to 250A
Rated Voltage	1000V DC	1000V DC	1000V DC	1000V DC
IP Rating	IP67/IP6K9K	IP67/IP6K9K	IP67/IP6K9K	IP67/IP6K9K
Touch-Proof	Yes	Yes	Yes	No
Cable Type	25mm ²	25mm ²	35 to 50mm ²	50 to 70mm ²
Shielding	No	No	No	No

HVSP PROFILE





HVSP KEY FEATURES

Small in size with plastic housing

Broad wire range

Right angle plug

360° rotation & polarization intergation

Multiple alternate positions

No tool required to unmate

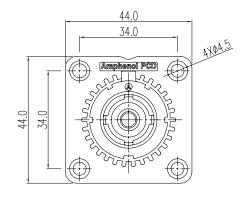
Safe, sealed with touch proof

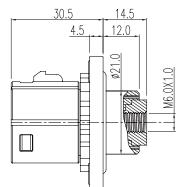
RoHS compliant

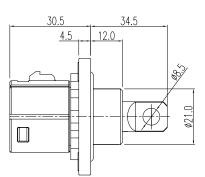
APPLICATIONS				
Battery				
Motor				
Inverter				
MECHANICAL				
Durability \geq 50 mating cycles				
Wire range 25mm ² to 70mm ²				
Insertion and extraction force	< 100N			
СРА	Aavailable			
ELECTRICAL				
Rated voltage	1000V DC			
Max rated current	up to 250A			
Insulator resistance	> 2000MΩ			
Dielectric withstand voltage	3000V AC			
Shielding type	no shielding			
ENVIRONMENTAL				
Sealing IP67(mated), IP6K9K				
Temperature range	-40°C to 125°C			

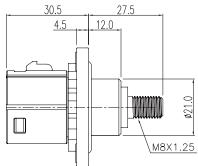
RECEPTACLE R8



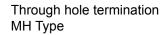






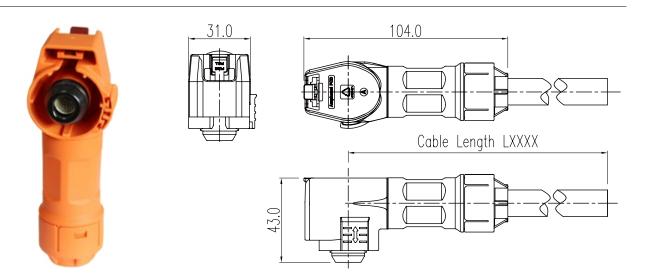


Screw termination- Internal MD Type



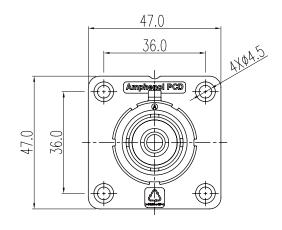
Screw termination - External MT Type

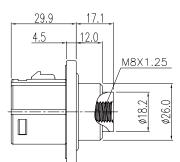
PLUG R8

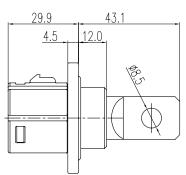


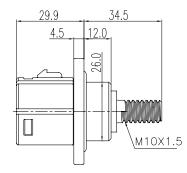
RECEPTACLE R10



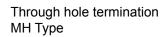






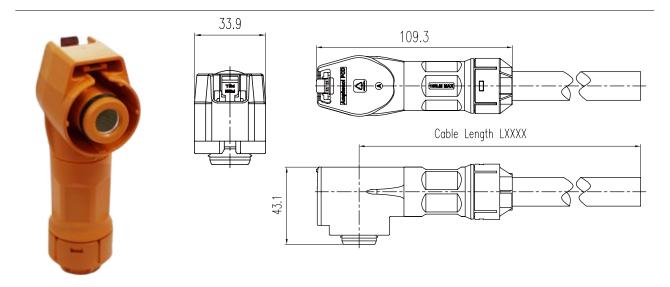


Screw termination - Internal MD Type



Screw termination - External MT Type

PLUG R10



HOW TO ORDER RECEPTACLE

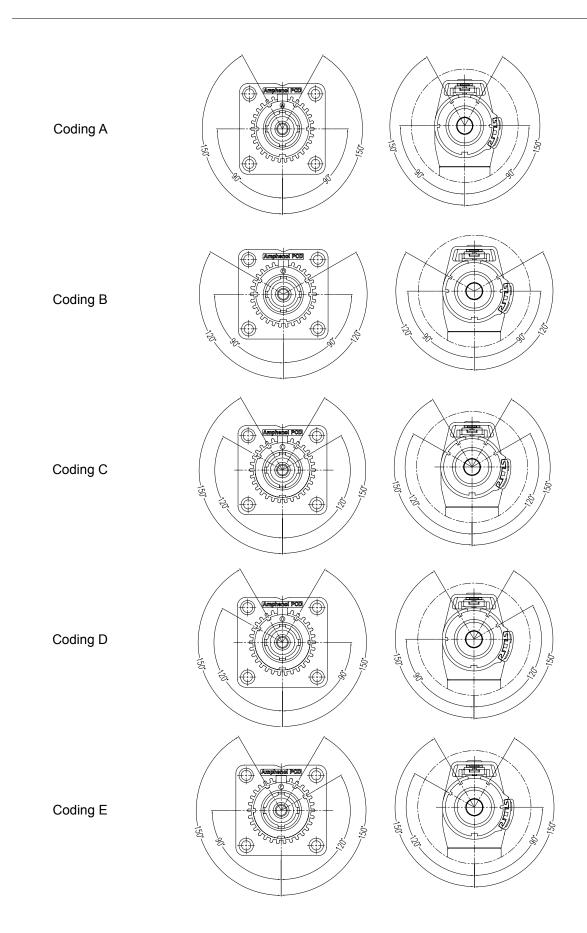
	HVSP	0	R8	MT	А	1
Shell type: 0: Box mounting receptacle						
Insert size: R6: 6mm pin contact R8: 8mm pin contact R10: 10mm pin contact						
Termination: MT: Screw tail MH: Through hole contact MD: Screw tail inside						
 Coding / Alternate position: A: Alternate position A, please refer to page 6 B: Alternate position B, please refer to page 6 C: Alternate position C, please refer to page 6 D: Alternate position D, please refer to page 6 E: Alternate position E, please refer to page 6 						
Color of housing: /: Omit, orange B: Black						

HOW TO ORDER PLUG

HVSP	9	R8	FC	Х	1	35	LXXXX
Shell type:							
9: Right angle plug							
Insert size:							
R6: 6mm socket contact							
R8: 8mm socket contact							
R10: 10mm socket contact							
Termination:							
FC: Crimp							
Coding / Alternate position:							
A: Alternate position A, please refer to page 6							
B: Alternate position B, please refer to page 6							
C: Alternate position C, please refer to page 6							
D: Alternate position D, please refer to page 6							
E: Alternate position E, please refer to page 6							
Color of housing:							
/: Omit, orange							
B: Black							
Cable diameter:							
25: 25mm ² cable (OD: 9.5mm to 11mm)							
35: 35mm ² cable (OD: 11mm to 12.5mm)							
50: 50mm ² cable (OD: 13mm to 14.5mm)							
70: 70mm ² cable (OD: 15mm to 16.5mm)							
Cable length :							
LXXXX: (Unit in mm)							

PART NUMBER REFERENCE					
Recetpacle	Plug				
HVSP R6 PART NUMBER (TBD)					
HVSP-0R6-M D/H/T A	HVSP-9R6-FCA-XXLXXXX				
HVSP-0R6-M D/H/T B	HVSP-9R6-FCB-XXLXXXX				
HVSP-0R6-M D/H/T C	HVSP-9R6-FCC-XXLXXXX				
HVSP-0R6-M D/H/T D HVSP-9R6-FCD-XXLXXXX					
HVSP-0R6-M D/H/T E HVSP-9R6-FCE-XXLXXXX					
HVSP R8 PART NUMBER					
HVSP-0R8-M D/H/T A	HVSP-9R8-FCA-XXLXXXX				
HVSP-0R8-M D/H/T B	HVSP-9R8-FCB-XXLXXXX				
HVSP-0R8-M D/H/T C	HVSP-9R8-FCC-XXLXXXX				
HVSP-0R8-M D/H/T D	HVSP-9R6-FCD-XXLXXXX				
HVSP-0R8-M D/H/T E	HVSP-9R6-FCE-XXLXXXX				
HVSP R10 PART NUMBER					
HVSP-0R10-M D/H/T A	HVSP-9R10-FCA-XXLXXXX				
HVSP-0R10-M D/H/T B	HVSP-9R10-FCB-XXLXXXX				
HVSP-0R10-M D/H/T C	HVSP-9R10-FCC-XXLXXXX				
HVSP-0R10-M D/H/T D	HVSP-9R10-FCD-XXLXXXX				
HVSP-0R10-M D/H/T E	HVSP-9R10-FCE-XXLXXXX				

CODING / ALTERNATE POSITION



HVSPN R6 PROFILE

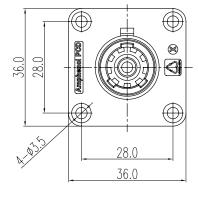


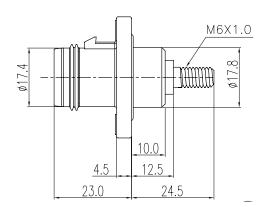


APPLICATIONS				
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Motor				
Inverter				
MECHANICAL				
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Rated voltage 1000V DC				
Max rated current	100A			
Insulator resistance	> 2000MΩ			
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Shielding type	no shielding			
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Sealing IP67(mated), IP6K9K				
Temperature range	-40°C to 125°C			

RECEPTACLE





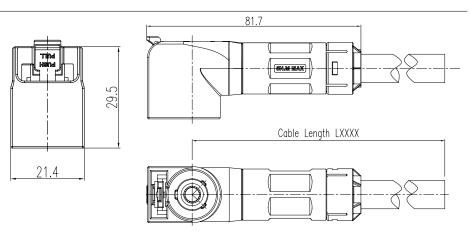




Receptacle	Part Number	Alternate Position
REP 1	HVSPN0 R6 MT X	135°
REP 2	HVSPN0 R6 MTY	120°

PLUG





Plug	Part number	Alternate position		
PLUG 1	HVSPN9 R6 FC X 25LXXXX	135°		
PLUG 2	HVSPN9 R6 FCY 25LXXXX	120°		
Notes: 25 means: cable diameter 25mm ² unshielded single core XXXX means: cable length, depends on customers request (Unit in mm)				



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Notes:

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