



EXCEL | MATE MSD Manual Service Disconnect

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EXCEL|MATE MSD



Amphenol PCD Manual Service Disconnect

Excel|Mate MSD is a safe and a reliable solution for HEV servicing.

Equipped with a two-stage lever to open the HVIL circuit prior to the separation of HV contacts, it is a tool-free solution for disconnecting the internal high voltage battery pack and protecting it from short circuit. All HV conductive contact surfaces on the receptacle assembly are finger-touch safe.

Available in a scalable design with a variety of fuse ratings.



KEY FEATURES

A two-stage lever provides an HVIL time delay

2 x integrated internal HVIL

Unique cooling structure

Dual-channel design lowers temperature rise

No tools required to unmate

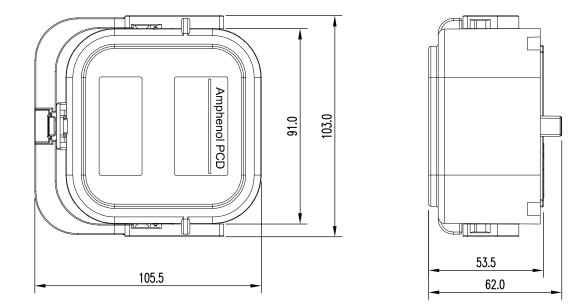
Various fuse ratings

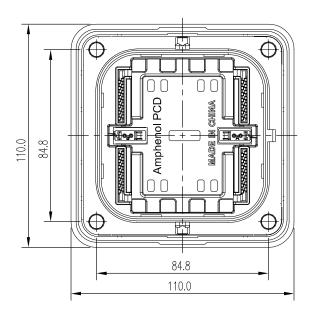
Receptacle can be front or rear mounted

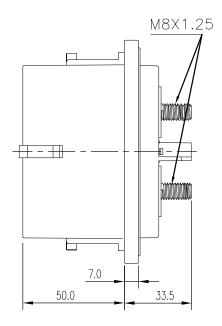
APPLICATION
It is a tool-free solution for disconnecting the internal high voltage battery pack and protecting it from short circuit.

MECHANICAL				
Mating cycles	≥ 50 cycles			
ELEC	CTRICAL			
Fuse specification	up to 630A			
With fuse:				
Rated current	Current is approximately 1/3 the fuse rating			
Rated voltage	500V DC to 600V DC			
With shunt:				
Rated current	260A Max @ Ambient 70°C			
Rated voltage	1000V DC Max			
ENVIRONMENTAL				
Protection degree	IP67, IP6K9K (mated)			
Ambient temperature	-40°C to 70°C			
Storage temperature	-40°C to 85°C			
Operating temperature	-40°C to 125°C			
Flammability	UL94V0			
STANDARDS				
USCAR-2				
USCAR-37				
LV-215	LV-215			
RoHS				

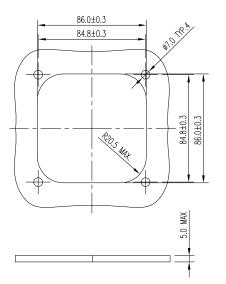
PRODUCT DIMENSIONS





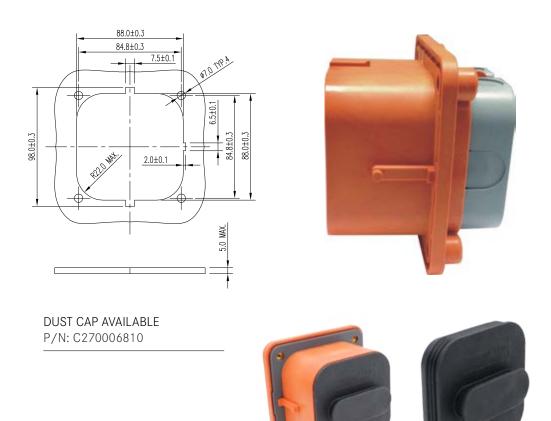


FRONT MOUNTED





REAR MOUNTED



HOW TO ORDER - EXCEL|MATE MSD

Plug

	MSD	м	200	1
Shell type: M: Plug				
Fuse rating current: 200: 200A 250: 250A 315: 315A 350: 350A 400: 400A 450: 450A 500: 500A 550: 550A 630: 630A 000: No fuse needed, can directly use the	ne termin	al		
Fuse brand: 1: Ferraz 2: Bussmann				

Receptacle

	MSD	F	000	F
Shell type: F: Receptacle				
Fuse rating current: 000: No fuse needed, can directly use the	e termin	al		
Flange mounted type: F: Front mounted R: Rear mounted				



MSD V is an upgraded version of the standard MSD.

It provides a rated voltage of 800V and a plug with integrated fuse.The other parameters remain unchanged.

KEY FEATURES

A two-stage lever provides an HVIL time delay

2 x integrated internal HVIL

Unique cooling structure

Dual-channel design lowers temperature rise

No tools required to unmate

Various fuse ratings

Receptacle can be front or rear mounted

APPLICATION

It is a tool-free solution for disconnecting the internal high voltage battery pack and protecting it from short circuit.

MECHANICAL				
Mating cycles	≥ 50 cycles			
ELEC	CTRICAL			
Fuse specification	up to 630A			
With fuse:				
Rated current	Current is approximately 1/3 the fuse rating			
Rated voltage	800V DC			
With shunt:				
Rated current	260A Max @ Ambient 70°C			
Rated voltage	1000V DC Max			
ENVIRONMENTAL				
Protection degree	IP67, IP6K9K (mated)			
Ambient temperature	-40°C to 70°C			
Storage temperature	-40°C to 85°C			
Operating temperature	-40°C to 125°C			
Flammability	UL94V0			
STANDARDS				
USCAR-2				
USCAR-37				
LV-215				
RoHS				

HOW TO ORDER - EXCEL|MATE MSD V

Plug

	MSD V	М	200
Shell type: M: Plug			
Fuse rating current: 200: 200A 250: 250A 315: 315A 350: 350A 400: 400A 450: 450A 500: 500A 550: 550A 630: 630A			
000: No fuse needed, can directly use	the termina	al	

Fuse brand:

Bussmann (by default), other brands, please contact us.

Receptacle

	MSD V	1	F	000	F
Contact: 1: Improved contact conductivity					
Shell type: F: Receptacle					
Fuse rating current: 000: No fuse needed, can directly use t	he termin	al			
Flange mounted type: F: Front mounted R: Rear mounted					

EXCEL|MATE MSD XL - TECHNICAL CHARACTERISTICS



KEY FEATURES

1 x integrated internal HVIL

Unique cooling structure

High current contacts with Amphenol Radsok technology

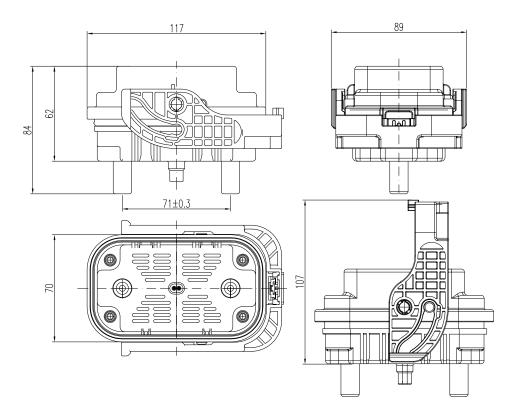
No tools required to unmate

Various fuse ratings

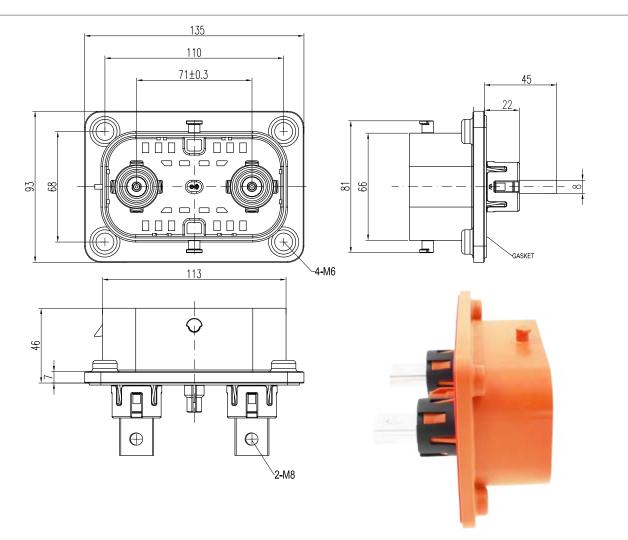
Receptacle can be front or rear mounted

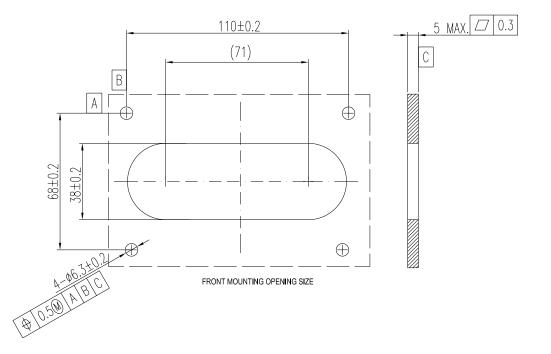
APPLICATION				
It is a tool-free solution for disconnecting the internal high voltage battery pack and protecting it from short circuit.				
MECH	IANICAL			
Mating cycles	≥ 500 cycles			
ELEC	TRICAL			
Fuse specification	up to 630A			
With fuse:				
Rated current 300A Max				
Rated voltage 1000V DC				
With shunt:				
Rated current 300A				
Rated voltage	1500V DC Max			
ENVIRO	NMENTAL			
Protection degree	IP67, IP6K9K (mated)			
Ambient temperature	-40°C to 70°C			
Storage temperature	-40°C to 85°C			
Operating temperature	-40°C to 125°C			
Flammability	UL94V0			
STANDARDS				
USCAR-2				
USCAR-37				
LV-215				
RoHS				

PRODUCT DIMENSIONS

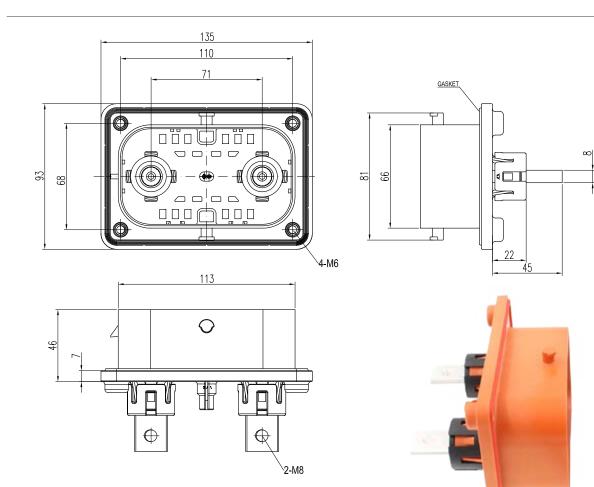


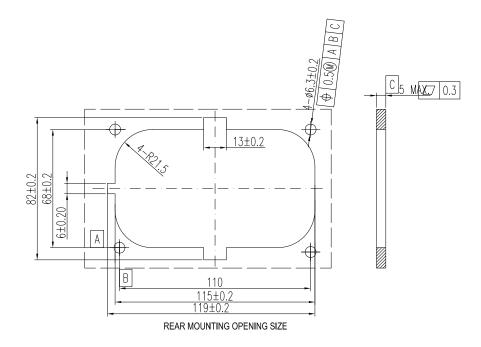
FRONT MOUNTED





REAR MOUNTED





HOW TO ORDER - EXCEL|MATE MSD XL

Plug			
MSI	D XL	М	200
Shell type: M : Plug			
Fuse rating current: 200: 200A 250: 250A 315: 315A 350: 350A 400: 400A 450: 450A 500: 500A 550: 550A 630: 630A 000: No fuse needed, can directly use the	termina	al	
Fuse brand :			

Bussmann (by default), other brands, please contact us.

Receptacle

	MSD XL	F	000	F
Shell type: F : Receptacle				
Fuse rating current: 000: No fuse needed, can directly us	se the termin	al		
Flange mounted type: F : Front mounted R : Rear mounted				

EXCEL|MATE MINI MSD



Amphenol PCD MINI Manual Service Disconnect

Mini MSD has been developped from the standard MSD.Smaller in size and lower in cost, it offers a more compact solution.

Available in a scalable design with a variety of fuse ratings.

EXCEL|MATE MINI MSD - TECHNICAL CHARACTERISTICS



KEY FEATURES

A two-stage lever provides an HVIL time delay

1 x integrated internal HVIL

Unique cooling structure

Dual-channel design lowers temperature rise

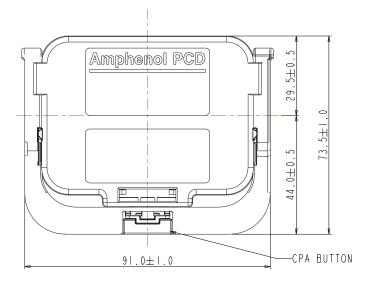
No tools required to unmate

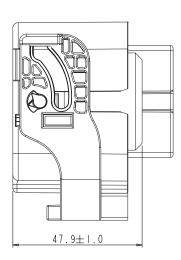
Various fuse ratings

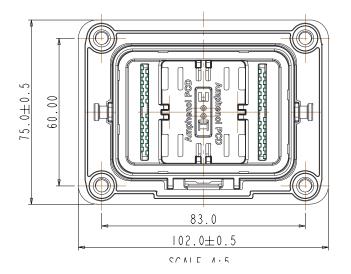
Receptacle can be front or rear mounted

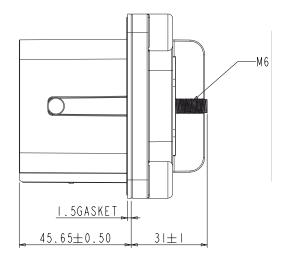
APPI	LICATION		
It is a tool-free solution for disconnecting the internal high voltage battery pack and protecting it from short circuit.			
MEC	HANICAL		
Mating cycles	≥ 50 cycles		
ELE	CTRICAL		
Fuse specification	up to 400A		
With fuse:			
Rated current	Current is approximately 1/3 the fuse rating (170A Max)		
Rated voltage 750V DC			
With shunt:			
Rated current	170A Max		
Rated voltage	1500V DC Max		
ENVIR	ONMENTAL		
Protection degree	IP67, IP6K9K (mated)		
Ambient temperature	-40°C to 70°C		
Storage temperature	-40°C to 85°C		
Operating temperature	-40°C to 125°C		
Flammability	UL94V0		
STA	NDARDS		
USCAR-2			
USCAR-37			
LV-215			
RoHS			

PRODUCT DIMENSIONS

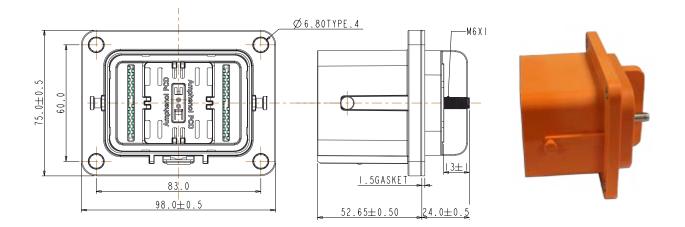




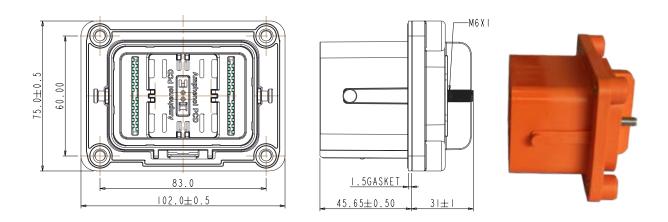




FRONT MOUNTED



REAR MOUNTED



DUST CAP AVAILABLE: P/N: C270006809



HOW TO ORDER - EXCEL|MATE MINI MSD

Plug

	MINI MSD	М	200
Shell type: M : Plug			
Fuse rating current: 080: 80A 100: 100A 125: 125A 160: 160A 200: 200A 250: 250A 315: 315A 400: 400A 000: No fuse needed, can direct	tly use the termir	nal	
Fuse brand : Bussmann (by default), other br	ands, please co	ntact u	S.

Receptacle

MIN	II MSD	F	000	F
Shell type: F : Receptacle				
Fuse rating current: 000: No fuse needed, can directly use the terminal				
Flange mounted type : F : Front mounted R : Rear mounted				

EXCEL|MATE MINI MSD V - TECHNICAL CHARACTERISTICS



KEY FEATURES

A two-stage lever provides an HVIL time delay

1 x integrated internal HVIL

Unique cooling structure

Dual-channel design lowers temperature rise

No tools required to unmate

Various fuse ratings

Receptacle can be front or rear mounted

APPLICATION				
It is a tool-free solution for disconnecting the internal high voltage battery pack and protecting it from short circuit.				
MEC	HANICAL			
Mating cycles	≥ 50 cycles			
ELECTRICAL				
Fuse specification	up to 400A			
With fuse:				
Rated current	Current is approximately 1/3 the fuse rating (220A Max)			
Rated voltage	750V DC			
With shunt:				
Rated current	220A Max			
Rated voltage	1500V DC Max			
ENVIRONMENTAL				
Protection degree	IP67, IP6K9K (mated)			
Ambient temperature	-40°C to 70°C			
Storage temperature	-40°C to 85°C			
Operating temperature	-40°C to 125°C			
Flammability	UL94V0			
STANDARDS				
USCAR-2				
USCAR-37				
LV-215				
RoHS				

HOW TO ORDER - EXCEL|MATE MINI MSD V

Plug: With fuse MINI MSD 2002 Μ Shell type: M: Plug Fuse rating current: 0802: 80A **1002:** 100A 1252: 125A 1602: 160A 2002: 200A 2502: 250A 3152: 315A 4002: 400A Fuse brand: Bussmann (by default), other brands, please contact us. Plug: With shunt MINI MSD VM 000 Shell type:

VM: Plug, shunt

000: No fuse needed, can directly use the terminal

Receptacle

	MINI MSD	V	F	000	F
 V: Built-in gasket seal, row connect V1: Built-in gasket seal, stud connection V2: Flat gasket seal, stud connection 	ction				
Shell type: F : Receptacle					
Fuse rating current: 000: No fuse needed, can directly use the terminal					
Flange mounted type: F: Front mounted R: Rear mounted (only available fo	or V2)				

V V1 V2





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Other:

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