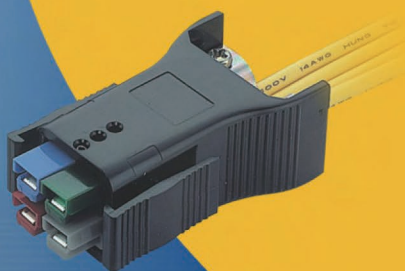
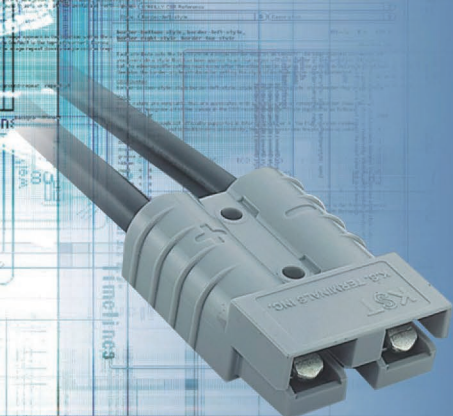


# KST®

Battery Modular Connectors



**UL** **c** **UL**

ELECTRICAL TERMINAL &  
CONNECTOR MANUFACTURE

E131576

E131576

## Penzel

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[www.penzel.com.br](http://www.penzel.com.br)



## BMC series/Battery Modular Connectors

K.S. Terminals Inc, an ISO 9001 & QS 9000 certified company, has been contributing the best professional skills in the connectors and terminals manufacturing in the past 30 years. For providing the design flexibility, cost-effective reliability and mistake-proof capability, the BMC series are designed and produced for your products's efficient installation and reliable performance.

K.S. Terminals Inc. proudly introduces the BMC series (Battery Modular Connectors) to the global markets. The BMC series 1 pole & 2 pole connectors are available from 15 to 350 Amp rating for use to 600 Volts continuous AC or DC operation. Based on the color-management system, the connectors will only mate with the same color connectors. For preventing mismatching of the power supply system, the different color housings are selected to identify voltages.

### Applicable Markets

- **UPS System**
- **Telecommunication**
- **Forklift Trucks**
- **Wheelchairs**
- **Electric Vehicles**
- **Chargers**



**Housing Example:** BMC 1S - RED  
(1) (2)(3) (4)

- (1) BMC -- Battery Modular Connectors  
(2) 1-- Pole Number  
(3) S -- Housing Size  
(4) RED -- Color Type

**Pole Number:** 1:One-pole Housing  
2:Two-pole Housing

**Housing Size :** S:Small Size Housing  
M:Middle Size Housing  
L:Large Size Housing

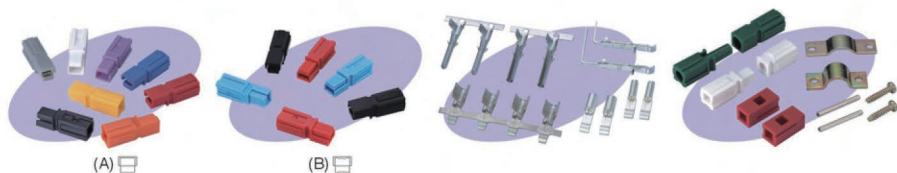
**Contacts Example:** B M C1AG  
(5) (6)

- (5) 1 -- WireRange  
(6)AG -- Contacts Type

**Wire Range:** 1:AWG20-16  
2:AWG16-12  
3:AWG14-10

**Contacts Type:** AG: Copper-Silver Plated  
ST: Copper- Tin Plated (Reel Type)

# 10~45 Amp Series



Housings(A): ( )	Housings(B): ( )	Contacts	Contact Barrel Size (AWG)	Current Rating (Amps)	Voltage Rating (Volts)	Max. Wire Insulation Diameter (mm)	Contact Retention Force(lbs)	Avg. Connection/ Disconnect (lbs)	Operating Temperature Range°C	Flammability Rating of Housing Material
BMC1S-YELLOW	BMC1S-1-YELLOW	BMC1AG	20-16	15	600V	4.45	25	3	-20°C to 125°C	UL94V-0
BMC1S-ORANGE	BMC1S-1-ORANGE									
BMC1S-RED	BMC1S-1-RED									
BMC1S-GREY	BMC1S-1-GREY	BMC2AG	12-16	30	600V	4.45	25	3	-20°C to 125°C	UL94V-0
BMC1S-BLUE	BMC1S-1-BLUE									
BMC1S-GREEN	BMC1S-1-GREEN									
BMC1S-BLACK	BMC1S-1-BLACK	BMC2ST	12-16	30	600V	4.45	25	3	-20°C to 125°C	UL94V-0
BMC1S-BROWN	BMC1S-1-BROWN									
BMC1S-PURPLE	BMC1S-1-PURPLE									
BMC1S-PINK	BMC1S-1-PINK	BMC3ST	10-14	45	600V	4.45	25	3	-20°C to 125°C	UL94V-0
BMC1S-WHITE	BMC1S-1-WHITE									
Ground :										
BMC1S-FG		BMC1S-FG2ST	14-16	10	600V	3.48	25	5	-20°C to 125°C	UL94V-0
BMC1S-MG		BMC1S-MG2ST								

# 75 Amp Series



Amp Series	Housings:	Contacts	Contact Barrel Size (AWG)	Current Rating (Amps)	Voltage Rating (Volts)	Max. Wire Insulation Diameter (mm)	Contact Retention Force(lbs)	Avg. Connection/ Disconnect (lbs)	Operating Temperature Range°C	Flammability Rating of Housing Material
75 Amp Series	BMC1M-RED	BMC5AG	12-10	50	600V	11	50	7	-20°C to 125°C	UL94V-0
	BMC1M-BLUE									
	BMC1M-WHITE	BMC8AG	8	60	600V	11	50	7	-20°C to 125°C	UL94V-0
	BMC1M-GREEN	BMC14AG	6	75	600V	11	50	7	-20°C to 125°C	UL94V-0
	BMC1M-BLACK									

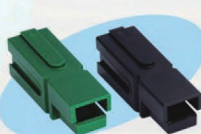


# 75 Amp Series (LOCK)



Amp Series	Housings:	Contacts	Contact Barrel Size (AWG)	Current Rating (Amps)	Voltage Rating (Volts)	Max. Wire Insulation Diameter (mm)	Contact Retention Force(lbs)	Avg. Connection/ Disconnect (lbs)	Operating Temperature Range°C	Flammability Rating of Housing Material
75 Amp Series	BMC1M-LK-RED	BMC5AG	12-10	50	600V	11	50	7	-20°C to 125°C	UL94V-0
	BMC1M-LK-BLUE	BMC5AG	12-10	50	600V	11	50	7	-20°C to 125°C	UL94V-0
	BMC1M-LK-WHITE	BMC8AG	8	60	600V	11	50	7	-20°C to 125°C	UL94V-0
	BMC1M-LK-GREEN	BMC14AG	6	75	600V	11	50	7	-20°C to 125°C	UL94V-0
	BMC1M-LK-BLACK	BMC14AG	6	75	600V	11	50	7	-20°C to 125°C	UL94V-0

# 120~180 Amp Series



Amp Series	Housings:	Contacts	Contact Barrel Size (AWG)	Current Rating (Amps)	Voltage Rating (Volts)	Max. Wire Insulation Diameter (mm)	Contact Retention Force(lbs)	Avg. Connection/ Disconnect (lbs)	Operating Temperature Range°C	Flammability Rating of Housing Material
120 Amp Series	BMC1LM-RED	BMCMS14AG	6	80	600V	14.6	100	8	-20°C to 125°C	UL94V-0
	BMC1LM-BLUE	BMCMS14AG	6	80	600V	14.6	100	8	-20°C to 125°C	UL94V-0
	BMC1LM-WHITE	BMCMS22AG	4	100	600V	14.6	100	8	-20°C to 125°C	UL94V-0
	BMC1LM-GREEN	BMCMS22AG	4	100	600V	14.6	100	8	-20°C to 125°C	UL94V-0
	BMC1LM-BLACK	BMCMS38AG	2	120	600V	14.6	100	8	-20°C to 125°C	UL94V-0
180 Amp Series	BMC1L-RED	BMCM14AG	6	80	600V	14.6	170	20	-20°C to 125°C	UL94V-0
	BMC1L-BLUE	BMCM14AG	6	80	600V	14.6	170	20	-20°C to 125°C	UL94V-0
	BMC1L-WHITE	BMC22AG	4	125	600V	19.05	170	20	-20°C to 125°C	UL94V-0
	BMC1L-GREEN	BMC22AG	4	125	600V	19.05	170	20	-20°C to 125°C	UL94V-0
	BMC1L-BLACK	BMC38AG	2	150	600V	19.05	170	20	-20°C to 125°C	UL94V-0
		BMC60AG	1/0	175	600V	19.05	170	20	-20°C to 125°C	UL94V-0

# 2-POLE 50~350 Amp Series

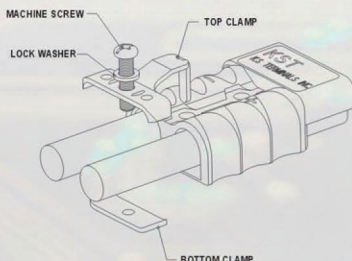


Amp Series	Housings:	Contacts	Contact Barrel Size (AWG)	Current Rating (Amps)	Voltage Rating (Volts)	Max. Wire Insulation Diameter (mm)	Contact Retention Force(lbs)	Avg. Connection/ Disconnect (lbs)	Operating Temperature Range°C	Flammability Rating of Housing Material
50 Amp Series	BMC2S-RED	BMC5AG	12-10	35	600V	11.18	50	15	-20°C to 125°C	UL94V-0
	BMC2S-BLACK									
	BMC2S-BLUE	BMC8AG	8	45						
	BMC2S-GREY									
	BMC2S-GREEN	BMC14AG	6	50						
	BMC2S-ORANGE									
BMC2S-YELLOW										
120 Amp Series	BMC2MS-RED	BMCMS14AG	6	80	600V	14.6	100	20	-20°C to 125°C	UL94V-0
	BMC2MS-GREY	BMCMS22AG	4	100						
	BMC2MS-BLUE	BMCMS38AG	2	120						
175 Amp Series	BMC2M-RED	BMCM14AG	6	80	600V	14.6	300	25	-20°C to 125°C	UL94V-0
	BMC2M-BLUE	BMC22AG	4	125						
	BMC2M-YELLOW	BMC38AG	2	150						
	BMC2M-GREY									
	BMC2M-ORANGE	BMC60AG	1/0	175						
350 Amp Series	BMC2L-RED	BMC70AG	2/0	250	600V	28	500	30	-20°C to 125°C	UL94V-0
	BMC2L-BLUE	BMC80AG	3/0	275						
	BMC2L-YELLOW									
	BMC2L-GREY	BMC100AG	4/0	300						
	BMC2L-ORANGE	BMC150AG	250/300	350						
	BMC2L-GREEN									

## ACCESSORIES-CONNECTOR CABLE CLAMPS



**BMC2S-FP** for 2S (50Amp) Series  
**BMC2M-FP** for 2M (175Amp) Series



## ACCESSORIES-CONNECTOR HANDLES



**BMC2S-HD-RED** for 2S (50Amp) Series  
**BMC2MS-HD-RED** for 2MS(120Amp) Series



**BMC2M-HD-RED** for 2M (175Amp) Series, ( 2 bolt set)  
**BMC2L-HD-RED** for 2L (350Amp) Series, ( 2 bolt set)  
**BMCGX2M-HD-RED** for GE (160Amp) or GX (175Amp) Series, ( 4 bolt set)  
**BMCGX2L-HD-RED** for GE (320Amp) or GX (350Amp) Series, ( 4 bolt set)



## ACCESSORIES-CONNECTOR DUST COVER



**BMC2S-DC1** for 2S (50Amp) Series  
**BMC2MS-DC1** for 2MS(120Amp) Series  
**BMC2M-DC1** for 2M (175Amp) Series  
**BMC2L-DC1** for 2L (350Amp) Series  
 MATERIAL:Rubber



**BMC2M-DC2** for 2M(175Amp) Series  
 MATERIAL : PC



## ACCESSORIES-CONNECTOR SEAT & PIN



**BMC1M-SMTL** for 1M (75Amp)Series



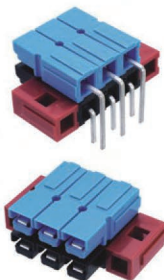
for 1M(75A) & 1LM(120A)& IL(180Amp)



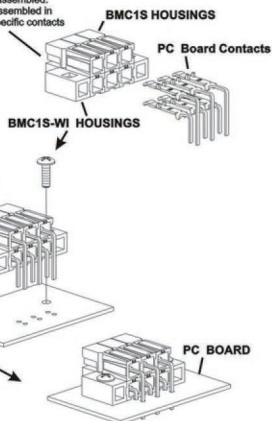
**BMCPCL1A  
BMCPCL2A for 1S (10~45Amp) Series  
BMCPCL2B**



**BMC1S-WI for 1S (10~45Amp) Series**



6P BMC1S Cluster and 2 each  
BMC1S-WI side by side assembled.  
Six BMC1S completely assembled in  
their housings with the specific contacts  
and conductor.

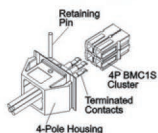


**BMC1S-FSP  
BMC1S-MSP**

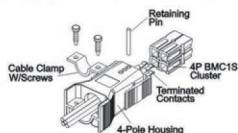


**BMC1S-MG  
BMC1S-FG**

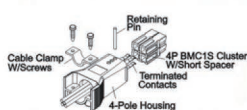
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4 POLE RECEPTACLE EXPLODED VIEW



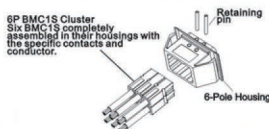
**CAT. NO.: 4BMCS-SET-R**  
4 POLE PLUG EXPLODED VIEW  
WITH CONDUIT CLAMP



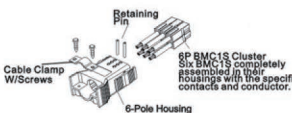
**CAT. NO.: 4BMCS-SET-RW**  
4 POLE PLUG EXPLODED VIEW  
WITH CABLE CLAMP



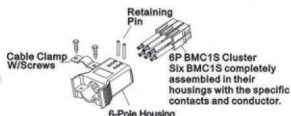
**CAT. NO.: 6BMCS-SET-L**  
6 POLE RECEPTACLE EXPLODED VIEW



**CAT. NO.: 6BMCS-SET-R**  
6 POLE PLUG EXPLODED  
VIEW WITH CONDUIT CLAMP

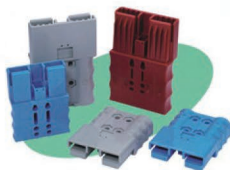


**CAT. NO.: 6BMCS-SET-RW**  
6 POLE PLUG EXPLODED  
VIEW WITH CONDUIT CLAMP



# 2-POLE 160~350 Amp Series

## (GE & GX TAPE WITH AUXILIARY CONTACT)



Amp Series	Housings:	Contacts	Contact Barrel Size (AWG)	Current Rating (Amps)	Voltage Rating (Volts)	Max. Wire Insulation Diameter (mm)	Contact Retention Force(lbs)	Avg. Connection/ Disconnect (lbs)	Operating Temperature Range°C	Flammability Rating of Housing Material
160 Amp Series	BMCGE2M-RED	BMCGM35AG	2	160	600V	19.05	300	25	-20°C to 125°C	UL94V-0
	BMCGE2M-BLUE									
	BMCGE2M-YELLOW									
	BMCGE2M-ORANGE	BMCGM60AG	1/0	175						
	BMCGE2M-GREEN									
	BMCGE2M-BLACK									
	BMCGE2M-GREY									
175 Amp Series	BMCGX2M-RED	BMCGM35AG	2	160	600V	19.05	300	25	-20°C to 125°C	UL94V-0
	BMCGX2M-BLUE									
	BMCGX2M-YELLOW									
	BMCGX2M-ORANGE	BMCGM60AG	1/0	175						
	BMCGX2M-GREEN									
	BMCGX2M-GREY									
320 Amp Series	BMCGE2L-RED	BMCGL35AG	2	160	600V	27.94	500	30	-20°C to 125°C	UL94V-0
	BMCGE2L-BLUE	BMCGL50AG	1	170						
	BMCGE2L-YELLOW									
	BMCGE2L-ORANGE									
	BMCGE2L-GREEN	BMCGL70AG	2/0	250						
	BMCGE2L-GREY	BMCGL80AG	3/0	275						
	BMCGE2L-BLACK									
	BMCGE2L-BROWN									
	BMCGE2L-PURPLE									
350 Amp Series	BMCGX2L-RED	BMCGL35AG	2	160	600V	27.94	500	30	-20°C to 125°C	UL94V-0
	BMCGX2L-BLUE	BMCGL70AG	2/0	250						
	BMCGX2L-YELLOW	BMCGL80AG	3/0	275						
	BMCGX2L-BLACK									
	BMCGX2L-GREEN									
	BMCGX2L-GREY	BMCGL150AG	300mcm	350						