

CPE ITALIA S.p.A. - Componenti Professionali per l'Electronica

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[www.cpeitalia.it](http://www.cpeitalia.it) [sales@cpeitalia.it](mailto:sales@cpeitalia.it)



## CMB series/Connectors Modular Battery

C.P.E. Italia, an ISO 9001/9100/14001 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 CMB series are designed and produced for your products's efficient installation and reliable performance.

C.P.E. Italia proudly introduces the CMB series to the global markets. The CMB 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:** CMB 1 S - RED  
(1) (2)(3) (4)

- (1) CMB -- Connectors Modular Battery
- (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:** CMB 1 AG  
(5) (6)

- (5) 1 -- Wire Range
- (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



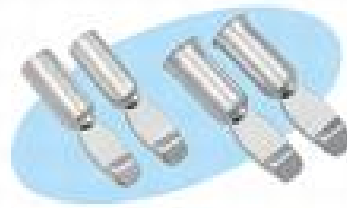
Housings(A): (☐)	Housings(B): (☐)	Contacts	Contact Barrel Size (AWG)	Current Rating (Amps)	Voltage Rating (Volts)	Max. Wire Insulation Diameter (mm)	Contact Retention Force(lbs)	Avg. Connection/ Disconnection (ls)	Operating Temperature Range(°C)	Flammability Rating of Housing Material
CMB15-YELLOW	CMB15-1-YELLOW	CMB1AG	20-18	15	600V	4.45	25	3	-20°C to 125°C	UL94V-0
CMB15-ORANGE	CMB15-1-ORANGE									
CMB15-RED	CMB15-1-RED									
CMB15-GREY	CMB15-1-GREY	CMB2AG	12-18	30	600V	4.45	25	3	-20°C to 125°C	UL94V-0
CMB15-BLUE	CMB15-1-BLUE									
CMB15-GREEN	CMB15-1-GREEN									
CMB15-BLACK	CMB15-1-BLACK	CMB2ST	12-18	30	600V	4.45	25	3	-20°C to 125°C	UL94V-0
CMB15-BROWN	CMB15-1-BROWN									
CMB15-PURPLE	CMB15-1-PURPLE	CMB3ST	10-14	45	600V	4.45	25	3	-20°C to 125°C	UL94V-0
CMB15-PINK	CMB15-1-PINK									
CMB15-WHITE	CMB15-1-WHITE									
Ground :										
CMB15-FG		CMB15-FG2ST	14-16	10	600V	3.48	25	5	-20°C to 125°C	UL94V-0
CMB15-MG		CMB15-MG2ST								

# 75 Amp Series



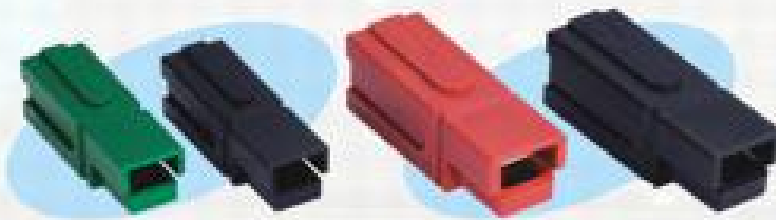
Amp Series	Housings	Contacts	Contact Barrel Size (AWG)	Current Rating (Amps)	Voltage Rating (Volts)	Max. Wire Insulation Diameter (mm)	Contact Retention Force(lbs)	Avg. Connection/ Disconnection (ls)	Operating Temperature Range(°C)	Flammability Rating of Housing Material
75 Amp Series	CMB1M-RED	CMB5AG	12-10	50	600V	11	50	7	-20°C to 125°C	UL94V-0
	CMB1M-BLUE	CMB3AG	8	60	600V	11	50	7	-20°C to 125°C	UL94V-0
	CMB1M-WHITE									
	CMB1M-GREEN	CMB1AG	6	75	600V	11	50	7	-20°C to 125°C	UL94V-0
CMB1M-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/ Disconnected (lbs)	Operating Temperature Range°C	Flammability Rating of Housing Material
75 Amp Series	<b>CMB1M-LK-RED</b>	CMB5AG	12-10	50	600V	11	50	7	-20°C to 125°C	UL94V-0
	<b>CMB1M-LK-BLUE</b>									
	<b>CMB1M-LK-WHITE</b>	CMB8AG	8	60	600V	11	50	7	-20°C to 125°C	UL94V-0
	<b>CMB1M-LK-GREEN</b>	CMB14AG	6	75	600V	11	50	7	-20°C to 125°C	UL94V-0
	<b>CMB1M-LK-BLACK</b>									

# 120~180 Amp Series



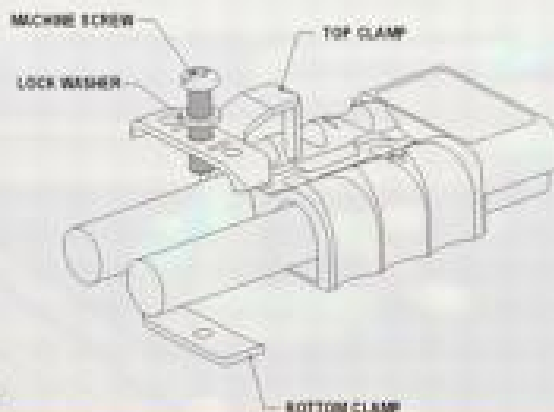
Amp Series	Housings:	Contacts	Contact Barrel Size (AWG)	Current Rating (Amps)	Voltage Rating (Volts)	Max. Wire Insulation Diameter (mm)	Contact Retention Force(lbs)	Avg. Connection/ Disconnected (lbs)	Operating Temperature Range°C	Flammability Rating of Housing Material
120 Amp Series	<b>CMB1LM-RED</b>	CMBMS14AG	6	60	600V	14.6	100	6	-20°C to 125°C	UL94V-0
	<b>CMB1LM-BLUE</b>									
	<b>CMB1LM-WHITE</b>	CMBMS22AG	4	100	600V	14.6	100	6	-20°C to 125°C	UL94V-0
	<b>CMB1LM-GREEN</b>	CMBMS38AG	2	120	600V	14.6	100	6	-20°C to 125°C	UL94V-0
	<b>CMB1LM-BLACK</b>									
180 Amp Series	<b>CMB1L-RED</b>	CMBM14AG	6	60	600V	14.6	170	20	-20°C to 125°C	UL94V-0
	<b>CMB1L-BLUE</b>	CMB22AG	4	125	600V	19.05	170	20	-20°C to 125°C	UL94V-0
	<b>CMB1L-WHITE</b>	CMB38AG	2	150	600V	19.05	170	20	-20°C to 125°C	UL94V-0
	<b>CMB1L-GREEN</b>									
	<b>CMB1L-BLACK</b>	CMB60AG	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. Connector/Disconnect (lbs)	Operating Temperature Range °C	Flammability Rating of Housing Material			
50 Amp Series	CMB2S-RED	CMB5AG	12-10	35	600V	11.18	50	15	-20°C to 125°C	UL94V-0			
	CMB2S-BLACK												
	CMB2S-BLUE	CMB8AG	8	45									
	CMB2S-GREY												
	CMB2S-GREEN										CMB14AG	6	50
	CMB2S-ORANGE												
CMB2S-YELLOW													
120 Amp Series	CMB2MS-RED	CMBMS14AG	6	80	600V	14.6	100	20	-20°C to 125°C	UL94V-0			
	CMB2MS-GREY	CMBMS22AG	4	100									
	CMB2MS-BLUE	CMBMS38AG	2	120									
175 Amp Series	CMB2M-RED	CMBM14AG	6	80	600V	14.6	300	25	-20°C to 125°C	UL94V-0			
	CMB2M-BLUE	CMB22AG	4	125									
	CMB2M-YELLOW	CMB38AG	2	150									
	CMB2M-GREY												
	CMB2M-ORANGE	CMB60AG	1/0	175									
350 Amp Series	CMB2L-RED	CMB70AG	2/0	250	600V	28	500	30	-20°C to 125°C	UL94V-0			
	CMB2L-BLUE	CMB90AG	3/0	275									
	CMB2L-YELLOW												
	CMB2L-GREY	CMB100AG	4/0	300									
	CMB2L-ORANGE	CMB150AG	250/300	350									
	CMB2L-GREEN												

## ACCESSORIES-CONNECTOR CABLE CLAMPS



**CMB2S-FP** for 2S (50Amp) Series  
**CMB2M-FP** for 2M (175Amp) Series

## ACCESSORIES-CONNECTOR HANDLES



**CMB2S-HD-RED** for 2S (50Amp) Series  
**CMB2MS-HD-RED** for 2MS(120Amp) Series



**CMB2M-HD-RED** for 2M (175Amp) Series, ( 2 bolt set)  
**CMB2L-HD-RED** for 2L (350Amp) Series, ( 2 bolt set)  
**CMBGX2M-HD-RED** for GE (160Amp) or GX (175Amp) Series, ( 4 bolt set)  
**CMBGX2L-HD-RED** for GE (320Amp) or GX (350Amp) Series, ( 4 bolt set)



## ACCESSORIES-CONNECTOR DUST COVER



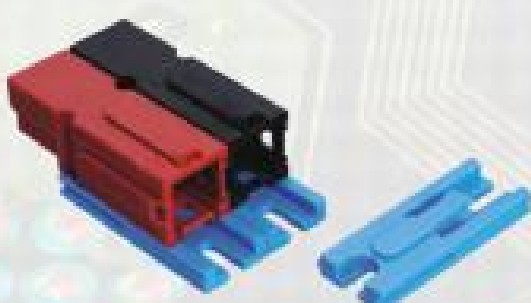
**CMB2S-DC1** for 2S (50Amp) Series  
**CMB2MS-DC1** for 2MS(120Amp) Series  
**CMB2M-DC1** for 2M (175Amp) Series  
**CMB2L-DC1** for 2L (350Amp) Series  
 MATERIAL:Rubber



**CMB2M-DC2** for 2M(175Amp) Series  
 MATERIAL : PC



## ACCESSORIES-CONNECTOR SEAT & PIN



**CMB1M-SMTL** for 1M (75Amp)Series

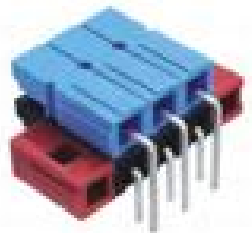


for 1M(75A) & 1LM(120Amp)& IL(180Amp)

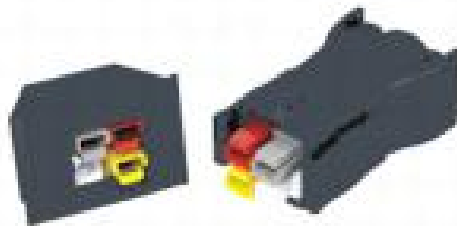
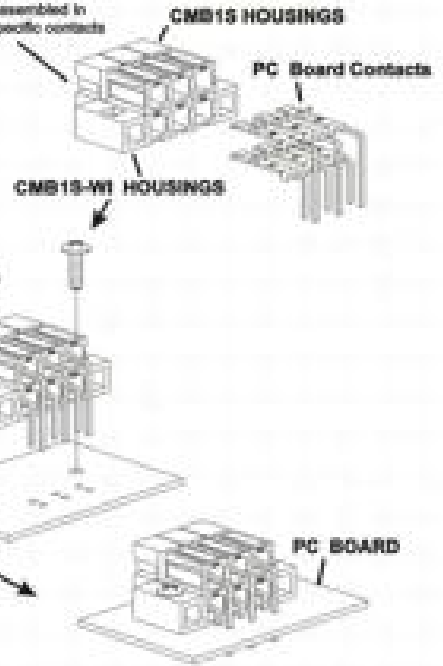
CMBPCL1A  
CMBPCL2A for 1S (10–45Amp) Series  
CMBPCL2B



CMB1S-WI for 1S (10–45Amp) Series



6P-CMB1S Cluster and 2 each  
CMB1S-WI side by side assembled.  
Six CMB1S completely assembled in  
their housings with the specific contacts  
and conductor.



CMB1S-FSP

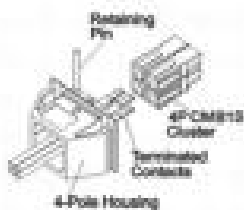
CMB1S-MSP



CMB1S-MG

CMB1S-FG

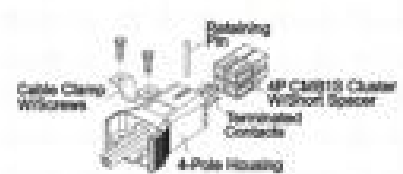
**CAT. NO.: 4CMB5-SET-L**  
4 POLE RECEPTACLE EXPLODED VIEW



**CAT. NO.: 4CMB5-SET-R**  
4 POLE PLUG EXPLODED VIEW  
WITH CONDUIT CLAMP



**CAT. NO.: 4CMB5-SET-RW**  
4 POLE PLUG EXPLODED VIEW  
WITH CABLE CLAMP



**CAT. NO.: 6CMB5-SET-L**  
6 POLE RECEPTACLE EXPLODED VIEW



**CAT. NO.: 6CMB5-SET-R**  
6 POLE PLUG EXPLODED  
VIEW WITH CONDUIT CLAMP



**CAT. NO.: 6CMB5-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 (ls)	Operating Temperature Range°C	Flammability Rating of Housing Material
160 Amp Series	CMBGE2M-RED	CMBGM35AG	2	160	600V	19.05	300	25	-20°C to 125°C	UL94V-0
	CMBGE2M-BLUE									
	CMBGE2M-YELLOW									
	CMBGE2M-ORANGE	CMBGM60AG	1/0	175						
	CMBGE2M-GREEN									
	CMBGE2M-BLACK									
	CMBGE2M-GREY									
175 Amp Series	CMBGX2M-RED	CMBGM35AG	2	160	600V	19.05	300	25	-20°C to 125°C	UL94V-0
	CMBGX2M-BLUE									
	CMBGX2M-YELLOW									
	CMBGX2M-ORANGE	CMBGM60AG	1/0	175						
	CMBGX2M-GREEN									
	CMBGX2M-GREY									
320 Amp Series	CMBGE2L-RED	CMBGL35AG	2	160	600V	27.94	500	30	-20°C to 125°C	UL94V-0
	CMBGE2L-BLUE	CMBGL50AG	1	170						
	CMBGE2L-YELLOW									
	CMBGE2L-ORANGE	CMBGL70AG	2/0	250						
	CMBGE2L-GREEN									
	CMBGE2L-GREY									
	CMBGE2L-BLACK	CMBGL80AG	3/0	275						
	CMBGE2L-BROWN	CMBGL100AG	4/0	300						
	CMBGE2L-PURPLE									
350 Amp Series	CMBGX2L-RED	CMBGL35AG	2	160	600V	27.94	500	30	-20°C to 125°C	UL94V-0
	CMBGX2L-BLUE	CMBGL70AG	2/0	250						
	CMBGX2L-YELLOW	CMBGL80AG	3/0	275						
	CMBGX2L-BLACK	CMBGL100AG	4/0	300						
	CMBGX2L-GREEN									
	CMBGX2L-GREY	CMBGL150AG	300mm	350						





**DET NORSKE VERITAS**  
**QUALITY MANAGEMENT SYSTEM CERTIFICATE**

Certificato No. / Certificate No. **CERT-01876-97-AQ-MIL-SINCERT**

Si attesta che / This certifies that

il sistema di gestione per la qualità di / the quality management system of

**CPE Italia S.p.A.**

Via Dante Chiasserini, 15 - 20157 Milano (MI) - Italy  
SS. Appia Km. 195,000 - 81047 Vitulazio (CE) - Italy

È conforme ai requisiti della norma per i sistemi di gestione per la qualità  
Conforms to the quality management system standard

**UNI EN ISO 9001:2008 (ISO 9001:2008)**

Questa certificazione è valida per il seguente campo applicativo:

This certificate is valid for the following products or services:

Questo campo applicativo riguarda le attività progettuali, di sviluppo e di produzione di componenti passivi (organizzazione certificata).  
This certificate applies to the design, development and production of passive components (certified organization).

**Progettazione, assemblaggio e commercializzazione di componenti passivi per telecomunicazioni e componenti passivi per trasmissione dati**

**Design, assembly and trade of coaxial passive components for the telecommunication and passive components for data transmission**

Data Prima Dichiarazione  
First Issue Date  
**1997-06-18**

Data di scadenza  
Expiry Date  
**2013-06-28**

Lunga e alta  
Pace and safe  
**Agrate Brianza, (MI) 2010-09-28**

**SINCERT**  
Società a partecipazione paritetica  
Società di certificazione  
Jointly owned  
Certification company

per il Programma di Certificazione  
for the Accredited Unit  
**DET NORSKE VERITAS ITALIA S.R.L.**

Settore EA : 19

Pasquale Talucci  
Lead Auditor

Vittore Marangon  
Management Representative

La validità del presente certificato è subordinata a verifiche periodiche (ogni 6, 9 o 12 mesi) ed è valida completa del sistema con periodicità triennale.  
The validity of this certificate is subject to periodic audits (every 6, 9 or 12 months) and the complete recertification of the system every three years.  
L'azienda è tenuta a comunicare immediatamente all'Ente Certificatore qualsiasi modifica, cambiamento, situazione di non conformità o situazione di rischio che possa compromettere la validità del presente certificato.



**DET NORSKE VERITAS**  
**QUALITY MANAGEMENT SYSTEM CERTIFICATE**

Certificato No. / Certificate No. **11004-2007-AQ-ITA-SINCERT**

Si attesta che / This certifies that

il sistema di gestione per la qualità di / the quality management system of

**CPE Italia S.p.A.**

Via Dante Chiasserini, 15 - 20157 Milano (MI) - Italy  
SS. Appia Km. 195,000 - 81047 Vitulazio (CE) - Italy

È conforme ai requisiti della norma per i sistemi di gestione per la qualità  
Conforms to the quality management system standard

**UNI EN ISO 9001:2008 (ISO 9001:2008)**

**EN 9100:2005 (EN 9100:2005)**

Questa certificazione è valida per il seguente campo applicativo:

This certificate is valid for the following products or services:

Questo campo applicativo riguarda le attività progettuali, di sviluppo e di produzione di componenti passivi (organizzazione certificata).  
This certificate applies to the design, development and production of passive components (certified organization).

**Assemblaggio e commercializzazione di componenti passivi per telecomunicazioni e componenti passivi per trasmissione dati**

**Assembly and trade of coaxial passive components for the telecommunication and passive components for data transmission**

Data Prima Dichiarazione  
First Issue Date  
**2007-10-26**

Data di scadenza  
Expiry Date  
**2013-09-28**

Lunga e alta  
Pace and safe  
**Agrate Brianza, (MI) 2010-09-28**

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Società di certificazione  
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**DET NORSKE VERITAS ITALIA S.R.L.**

Settore EA : 19

Pasquale Talucci  
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**DET NORSKE VERITAS**  
**ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE**

Certificato No. / Certificate No. **74033-2010-AE-ITA-SINCERT**

Si attesta che / This certifies that

il sistema gestione ambientale di / the environmental management system of

**CPE ITALIA S.p.A.**

Via Dante Chiasserini, 15 - 20157 Milano (MI) - Italy

È conforme ai requisiti della normativa  
Conforms to the environmental management system standard

**UNI EN ISO 14001:2004 (ISO 14001:2004)**

Questa certificazione è valida per il seguente campo applicativo:

This certificate is valid for the following products or services:

**Progettazione e assemblaggio mediante le fasi di taglio, salditura e molatura di componenti passivi per telecomunicazioni e componenti passivi per trasmissione dati**

**Design and assembly through the following processes: cutting, soldering, making of coaxial passive components for both telecommunication and for data transmission**

**Design and assembly through the following processes: cutting, soldering, making of coaxial passive components for both telecommunication and for data transmission**

Data di scadenza  
Expiry Date  
**2013-03-09**

Lunga e alta  
Pace and safe  
**Agrate Brianza, (MI) 2010-03-09**

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**DET NORSKE VERITAS ITALIA S.R.L.**

Settore EA : 19

Maria Zaccari  
Lead Auditor

Vittore Marangon  
Management Representative

La validità del presente certificato è subordinata a verifiche periodiche (ogni 6, 9 o 12 mesi) ed è valida completa del sistema con periodicità triennale.  
The validity of this certificate is subject to periodic audits (every 6, 9 or 12 months) and the complete recertification of the system every three years.  
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**UL Online Certifications Directory**

**ZPFW2.E327870**  
**Wiring Harnesses - Component**

CPE ITALIA SPA  
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20157 MILANO MI ITALY

E327870

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