

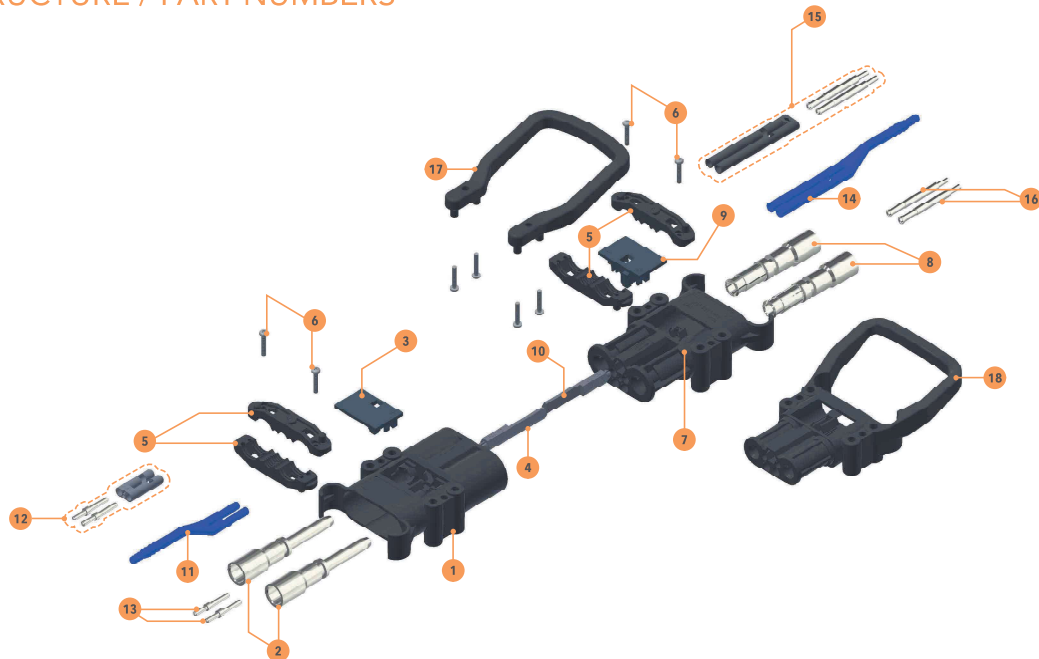
REMA BATTERY CONNECTOR DIN160



Product features and advantages

- > Specifically designed for the quick and opportunity charging of large battery capacities
- > Suitable for lead gel accumulators and lithium-ion batteries
- > Corresponds to the DIN VDE 0632-589 and EN 1175-1
- > Spring supported contact system for
 - > optimal contact pressure
 - > high electrical conductivity
- > High-grade contacts made out of pure high conductive Cu-ETP copper with silver plated surface and an anti-friction and tarnish coating ensure
 - > power transition with minimal losses
 - > long life
- > Durable because of acid resistant design
- > Suitable for cable sizes up to 50 mm²
- > Direct crimping without reducing bushing for all cable size
- > Wide range of accessories
 - > different handle shapes
 - > 1 pair of additional auxiliary and 1 pair of pilot contacts
 - > cooling system with air supply through
- > Typical applications
 - > forklift trucks
 - > battery charging systems
 - > sweeper and RCC devices

1. STRUCTURE / PART-NUMBERS



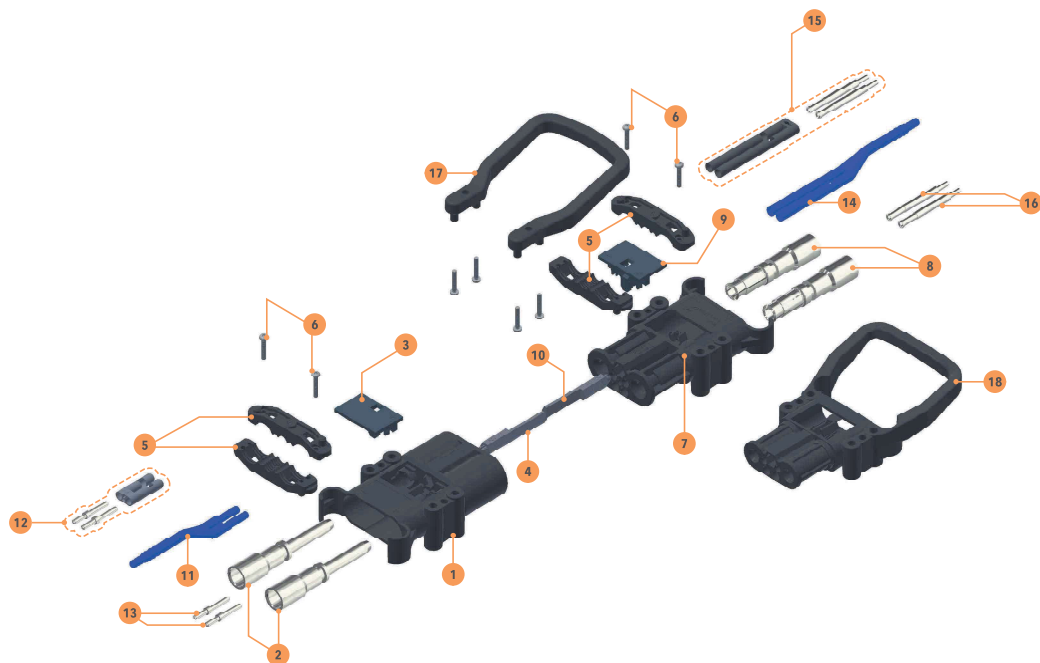
PLUG AND SOCKET DIN160

DESCRIPTION	SET PARTS	CROSS SECTION:	10mm ²	16mm ²	25mm ²	35mm ²	50mm ²	70mm ²
DIN160 plug; grey coding; acid resistant	1/2/3/4/5(2x)/6	PART-NO.	108846	108845	108851	108858	108865	108868
DIN160 socket; grey coding; acid resistant	5(2x)/6/7/8/9/10	PART-NO.	---	108807	108813	108819	108831	108832
DIN160 socket; grey coding; fixed handle; acid resistant	5(2x)/6/8/9/10/18	PART-NO.	---	108806	108812	108818	108826	108829

ADDITION PARTS DIN160

DESCRIPTION	POSITION	PART-NO.
DIN160 air adapter plug (6 / 8 mm connection)	11	100465
DIN160 air adapter plug (6 / 9 mm connection)	11	100473
DIN160 pilot contact set plug	12	108610
DIN160 aux contact for plug	13	102641
DIN160 air adapter socket (6 / 8 mm connection)	14	100464
DIN160 air adapter socket (6 / 9 mm connection)	14	108037
DIN160 pilot contact set socket	15	108609
DIN160 aux contact for socket	16	102714
DIN160 coding pin green	4	100049
DIN160 coding pin yellow	4	100048
DIN160 coding pin plug blue	4	100020
DIN160 coding pin green	10	100049
DIN160 coding pin socket blue	10	100021

DESCRIPTION	POSITION	PART-NO.
DIN160 Griff grau; gekröpft; mit 4 Schrauben	17	108879
DIN160 Griff grau; gekröpft; mit 8 Schrauben	17	108881
DIN160 Griff; flach; mit 2 Schrauben	17	108906
DIN160 Griff; flach; mit 2 Schrauben + Sicher.-Muttern	17	108910



2. TECHNICAL SPECIFICATIONS

GENERAL

> Nominal voltage U_N	150 V DC
> Current rating $I_N^{(1)}$	160 A acc. DIN VDE 0623-589
> Test voltage	2 kVAC acc. EN 1175-1
> Temperature range (incl. self-heating)	-20 °C ... +105 °C -4 °F ... +221 °F
> Whole plugging line	app. 40 mm
> Plugging line main contact	app. 25 mm
> Plugging line auxiliary contact	app. 9 mm

(1) for cable cross-sections $\geq 35 \text{ mm}^2$

STANDARDS

- > DIN VDE 0623-589
- > DIN EN 1175-1 (VDE 0117-1)
- >  File E226710

MATERIAL HOUSING

	Standard	>PP-GF30<	>PA-GF30<
> Color		grey sim. RAL7016	black sim. RAL9005
> Halogen-free	DIN VDE 0472-815	yes	yes
> UV resistant		yes	yes
> Ozon resistant		limited	no
> Battery acid resistant	EN 1175-1	yes	no
> Comparative Tracking Index	IEC 60112	600 V	550 V

MATERIAL CONTACTS

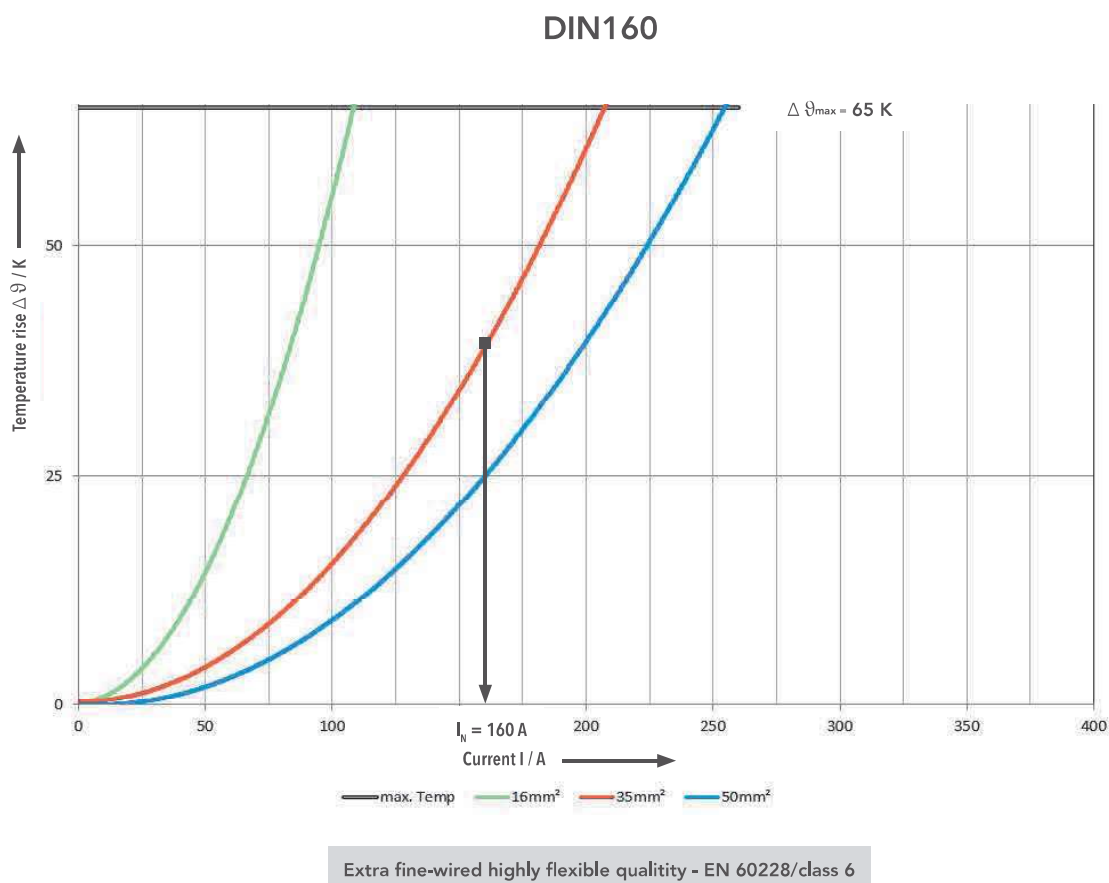
- > Electrolytic high conductive copper Cu-ETP acc. EN 13601 and silver plated surface

3. HEATING OF MAIN CONTACTS

The REMA DIN160 connector system is designed for optimum performance when used 35 mm² cross section cable according DIN VDE 0623-589.

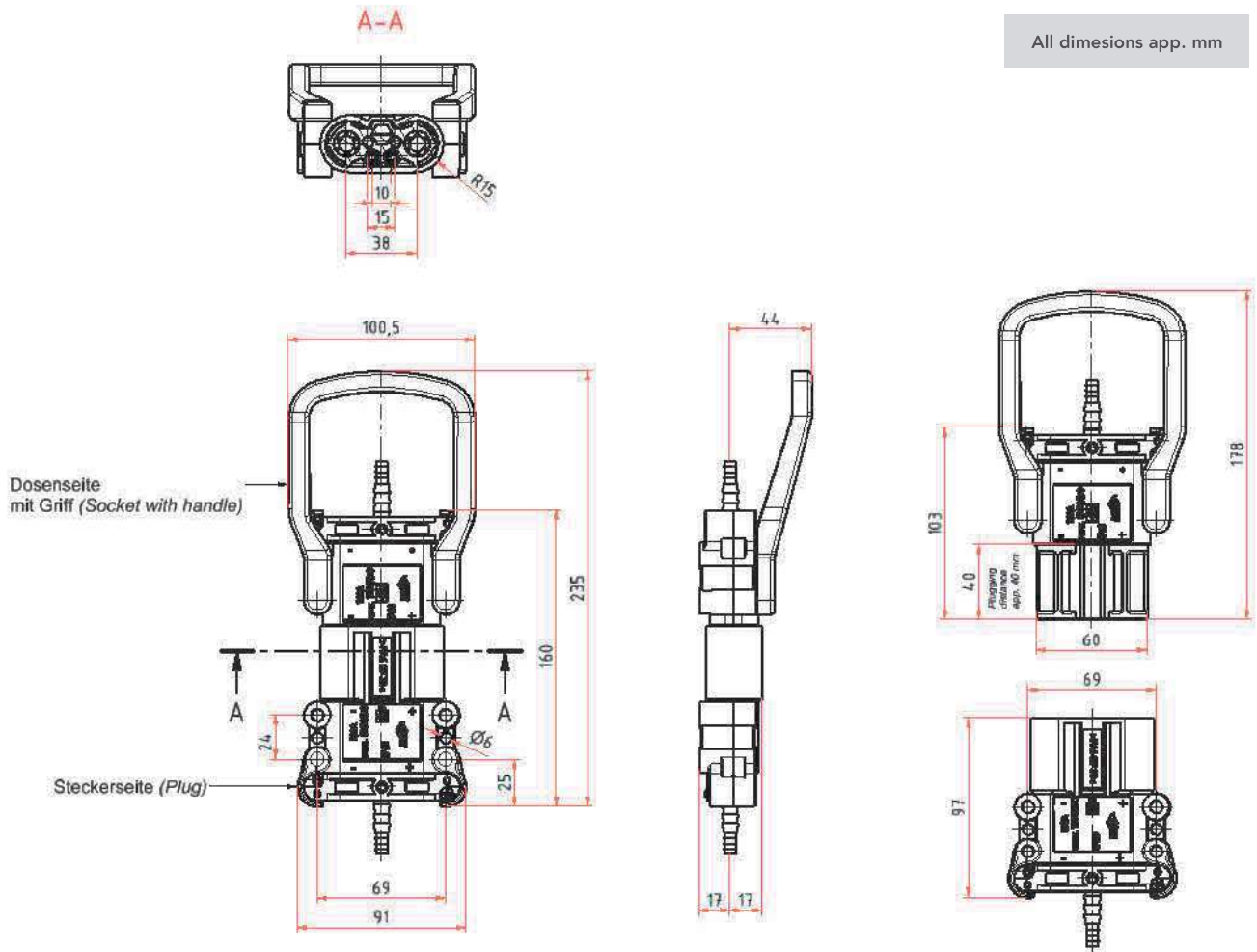
At other cable cross section the nominal operation current I_N will be different.

The following curves are for reference. The actual thermal performance may vary depending upon environmental conditions.

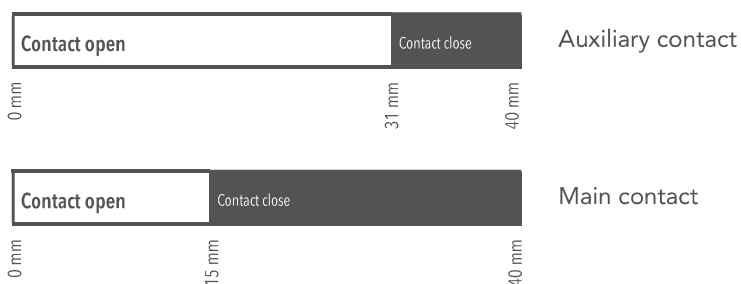


Please contact REMA for additional information concerning DIN160 Battery Connector system.

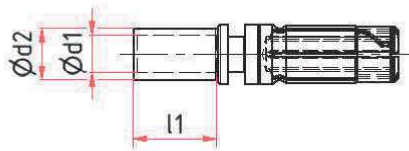
4. DRAWINGS



Plugging distance charts REMA connector DIN160



Preparation wire acc. DIN VDE 0623-589



CROSS SECTION [mm ²]	Ø d2 [MM] 0,15	Ø d1 [mm] ±0,05	l1 [mm] ±0,30
16	8,4	6,1	20,0
25	11,0	8,1	20,0
35	12,5	9,0	20,0
50	14,5	11,1	20,0

5. CODING

The different types of batteries which are used on the vehicle market today (wet, dry or gel batteries), may only be charged with the right charger for this type of battery.

In extreme cases, unapproved combinations of charge system and batteries can lead to the battery destruction.

In addition, only chargers and batteries with the same voltage may be combined.

For this reason REMA has developed a specially designed coding system with colored and labelled coding pins. This system allows correct connections and prevent incorrect ones.

The REMA Coding System meets the requirements of DIN VDE 0623-589.

All displayed product versions can only be used for the REMA DIN160, DIN320, DIN640.

Coding pin for wet batteries

- > **Current rating I:** acc. DIN VDE 0623-589
- > **Color:** Grey RAL7035
- > **Voltage range:** 24 V ... 96 V



Part-No.100015

Coding pin for dry batteries

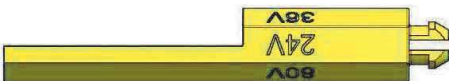
- > **Current rating I:** acc. DIN VDE 0623-589
- > **Color:** Green RAL6005
- > **Voltage range:** 24 V ... 96 V



Part-No. 100049

Universal coding pin (only for plugs) for wet/dry batteries

- > **Current rating I:** acc. DIN VDE 0623-589
- > **Color:** Yellow RAL1018
- > **Voltage range:** 24 V ... 96 V



Part-No.100048

Lithium Ionen coding pin (Plug and Socket)

- > **Current rating I:** acc. DIN VDE 0623-589
- > **Color:** Blue RAL5017
- > **Voltage range:** 24 V ... 96 V



Plug: Part-No.100020

Socket: Part-No.100021