



Industrial Plugs & Sockets 2024



Contents

PLUGS	06
CONNECTORS	07
INLET	08
CONTAINER SOLUTIONS	08
SOCKET PANEL MOUNTED	09
SOCKET SURFACE / WALL MOUNTED	10
SWITCHED SOCKET (INTERLOCKED)	10
CARAVAN SOLUTIONS	11
ACCESSORIES	12
PART CODE BREAKDOWN	13
INDUSTRIAL PLUGS AND SOCKETS INFORMATION	14

- Brass threaded inserts
- Padlockable handle
- Space for wiring and easy access for cables
- Material that withstands heavy-duty usage and most chemicals found in industrial environments
- Mechanically interlocked to prevent making and breaking under load
- Clear terminal marking, inside and outside the box
Ground $\perp$
Neutral N
Phase L1, L2, L3
- Cover and mounting screws made of stainless steel
- Robust hinge mechanism pivots >120° for easy access during installation and



Critical & Safe is the range for applications with high demands on safety, durability and performance. Perfect for applications with frequent connection / disconnection, and to use in public areas.

The housing is made of PBT or aluminium. PBT is a tough plastic material that withstands heavy-duty usage and most chemicals found in industrial environments. The aluminium housing is a mix of aluminium and silicon called Silumin, which gives an excellent protection against corrosion while being robust and tough against impact and sun light.

Features

- IP67 Watertight or IP44 Splash-proof
- 16 - 125A, 50-690 VAC
- IEC 60309-1, -2, -4
- All external screws are made of stainless steel

Applications

- Heavy / Chemical Industry
- Sawmills
- Airports
- Hospitals



CRITICAL & SAFE

Tough & Safe is the range for applications in environments that have high demands of functionality and safety. The robust housing is made of PBT plastic. The range Tough & Safe is available as watertight (IP67 16 - 125A) and splashproof (IP44 63 A). The devices are equipped with internal and external cable clamps. The 125A devices are equipped with two screws on each terminal.

Features

- IP67 Watertight or IP44 Splashproof
- 16-125 A, 50-690 VAC
- IEC 60309-1, -2
- All external screws are made of stainless steel

Application examples

- Industry/ Workshops
- Harbours / Shipyards
- Mines
- Food and Beverage



TOUGH & SAFE

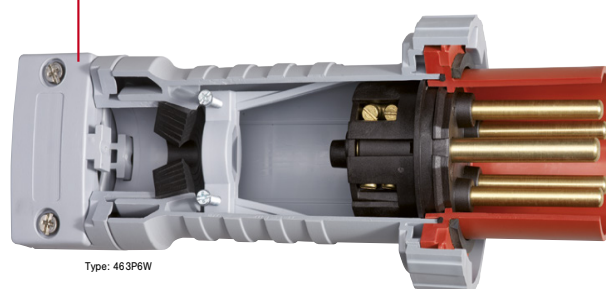
Clear marking, at the front and the rear of the terminals
Ground $\perp$
Neutral N
Phase L1, L2, L3

External screws made of stainless steel

Robust plastic housing that withstands most chemicals found in industrial environments

Internal and external cable clamp

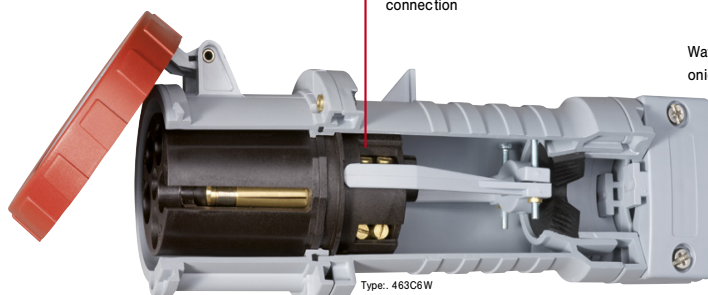
Clean brass pins

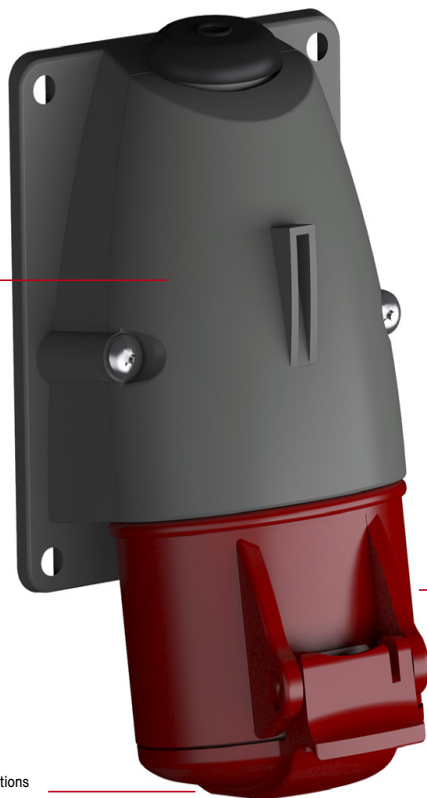


Rear terminals, raised lettering, identification contacts

Two screws at each terminal to assure safe and reliable cable connection

Watertight chloroprene onion skin grommet





Durable equipment prevents time and cost lost due to maintenance.

Reliable contacts prevent stops and power breaks, which leads to increased productivity.

Safe connections prevent accidents.

A complete range of IP44 and IP67 Industrial plugs, connectors, socket outlets and inlets in a new attractive and functional design. New IP67 products are perfect for the application when you need to protect contacts from water and dust. Robust design and unique self-cleaning calibrated contacts bring reliability, prevent arcing, reduce downtime and thus lower maintenance costs.

Main Benefits

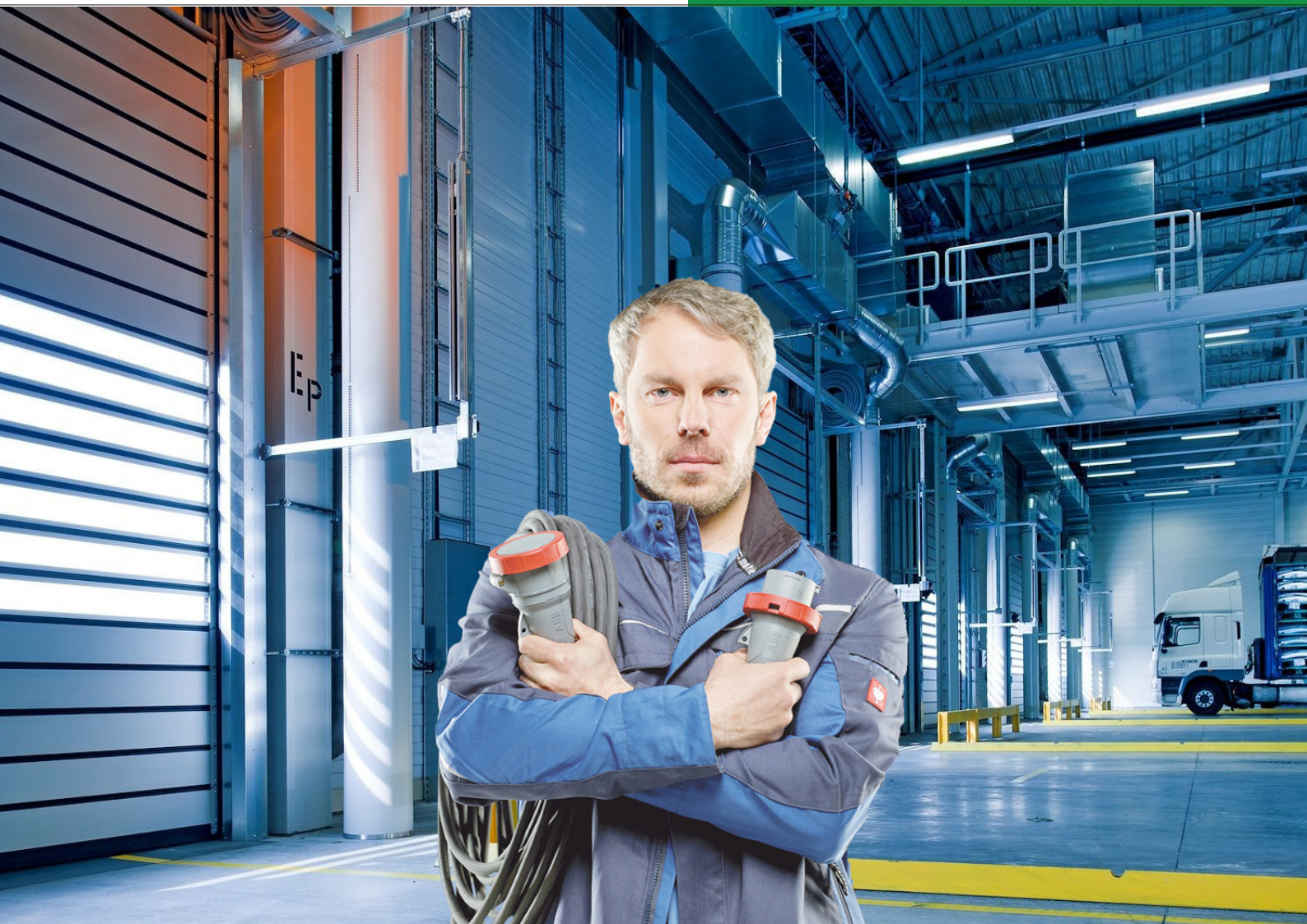
- Reliable, safe and easy to work with
- Water and dust protection of contacts avoids overheating and burning and thus prolongs plug and socket lifetime
- Minimizes the risk of accidents, injuries and damage of the connected equipment
- Complete offering of industrial plugs and sockets

Main Features

- Modern robust design
- Self-cleaning contacts
- Perfect for construction sites, food and beverage industry, various industrial applications, infrastructure applications, mines, connection of reefer containers



EASY & SAFE



PLUGS

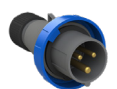
Plugs



IP44 PLUGS

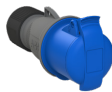
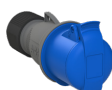
ESC Code	Description	IP Rating	Poles	Pins	Current	Voltage	ABB Series
216EP6	ABB Plug IP44 6H 3P 16A 230V	IP44	2P+E	3P	16A	230V	EASY & SAFE
232EP6	ABB Plug IP44 6H 3P 32A 230V	IP44	2P+E	3P	32A	230V	EASY & SAFE
332EP6	ABB Plug IP44 6H 4P 32A 415V	IP44	3P+E	4P	32A	400/415V	EASY & SAFE
432EP6	ABB Plug IP44 6H 5P 32A 415V	IP44	3P+N+E	5P	32A	400/415V	EASY & SAFE

IP67 PLUGS



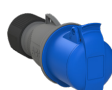
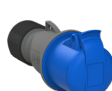
ESC Code	Description	IP Rating	Poles	Pins	Current	Voltage	ABB Series
216EP6W	ABB Plug IP67 6H 3P 16A 230V	IP67	2P+E	3P	16A	230V	EASY & SAFE
232EP6W	ABB Plug IP67 6H 3P 32A 230V	IP67	2P+E	3P	32A	230V	EASY & SAFE
263P9W	ABB Plug IP67 9H 3P 63A 415V	IP67	2P+E	3P	63A	400/415V	TOUGH & SAFE
332EP6W	ABB Plug IP67 6H 4P 32A 415V	IP67	3P+E	4P	32A	400/415V	EASY & SAFE
363P6W	ABB Plug IP67 6H 4P 63A 415V	IP67	3P+E	4P	63A	400/415V	TOUGH & SAFE
463P6W	ABB Plug IP67 6H 5P 63A 415V	IP67	3P+N+E	5P	63A	400/415V	TOUGH & SAFE
432EP6W	ABB Plug IP67 6H 5P 32A 415V	IP67	3P+N+E	5P	32A	400/415V	EASY & SAFE
4125P6W	ABB Plug IP67 6H 5P 125A 415V	IP67	3P+N+E	5P	125A	400/415V	TOUGH & SAFE

IP44 CONNECTORS

ESC Code	Description	IP Rating	Poles	Pins	Current	Voltage	ABB Series
 216EC6	ABB Connector IP44 6H 3P 16A 230V	IP44	2P+E	3P	16A	230V	 EASY & SAFE
 416EC6	ABB Connector IP44 6H 5P 16A 415V	IP44	3P+N+E	5P	16A	400/415V	 EASY & SAFE
 232EC6	ABB Connector IP44 6H 3P 32A 230V	IP44	2P+E	3P	32A	230V	 EASY & SAFE
 332EC6	ABB Connector IP44 6H 4P 32A 415V	IP44	3P+E	4P	32A	400/415V	 EASY & SAFE
 432EC6	ABB Connector IP44 6H 5P 32A 415V	IP44	3P+N+E	5P	32A	400/415V	 EASY & SAFE

Connectors

IP67 CONNECTORS

ESC Code	Description	IP Rating	Poles	Pins	Current	Voltage	ABB Series
 216EC6W	ABB Connector IP67 6H 3P 16A 230V	IP67	2P+E	3P	16A	230V	 EASY & SAFE
 232EC6W	ABB Connector IP67 6H 3P 32A 230V	IP67	2P+E	3P	32A	230V	 EASY & SAFE
 332EC6W	ABB Connector IP67 6H 4P 32A 415V	IP67	3P+E	4P	32A	400/415V	 EASY & SAFE
 432EC6W	ABB Connector IP67 6H 5P 32A 400V	IP67	3P+N+E	5P	32A	400/415V	 EASY & SAFE
 363C6W	ABB Connector IP67 6H 4P 63A 415V	IP67	3P+E	4P	63A	400/415V	 TOUGH & SAFE
 463C6W	ABB Connector IP67 6H 5P 63A 415V	IP67	3P+N+E	5P	63A	400/415V	 TOUGH & SAFE
 4125C6W	ABB Connector IP67 6H 5P 125A 415V	IP67	3P+N+E	5P	125A	400/415V	 TOUGH & SAFE

INLET

IP44 INLET SURFACE / WALL MOUNT



ESC Code	Description	IP Rating	Poles	Pins	Current	Voltage	ABB Series
216BS6	ABB Inlet IP44 6H 3P 16A 230V	IP44	2P+E	3P	16A	230V	EASY & SAFE

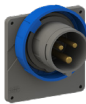
IP67 INLET SURFACE / WALL MOUNT



ESC Code	Description	IP Rating	Poles	Pins	Current	Voltage	ABB Series
216EBS6W	ABB Inlet IP67 6H 3P 16A 230V	IP67	2P+E	3P	16A	230V	EASY & SAFE
232EBS6W	ABB Inlet IP67 6H 3P 32A 230V	IP67	2P+E	5P	32A	230V	EASY & SAFE
463BS6W	ABB Surface Inlet IP67 6H 5P 63A 415V	IP67	3P+N+E	5P	63A	400/415V	TOUGH & SAFE

Inlet

IP67 INLET PANEL MOUNT



ESC Code	Description	IP Rating	Poles	Pins	Current	Voltage	ABB Series
216EBU6W	ABB Panel Inlet IP67 6H 3P 16A 230V	IP67	2P+E	3P	16A	230V	EASY & SAFE
463BU6W	ABB Panel Inlet Straight IP67 6H 5P 63A 415V	IP67	3P+N+E	5P	63A	400/415V	TOUGH & SAFE
4125BU6W	ABB Panel Inlet Straight IP67 6H 5P 125A 5P 415V	IP67	3P+N+E	5P	125A	400/415V	TOUGH & SAFE

CONTAINER SOLUTIONS

IP67 CONTAINER SOLUTIONS (REEFER)



ESC Code	Description	IP Rating	Poles	Pins	Current	Voltage	ABB Series
332EC3W	ABB Connector IP67 3H 4P Reefer 32A 380/440V	IP67	3P+E	4P	32A	380/440V	EASY & SAFE
332EP3W	ABB Plugs IP67 3H 4P Reefer 32A 380/440V	IP67	3P+E	4P	32A	380/440V	EASY & SAFE

SOCKET PANEL MOUNTED

IP44 SOCKET PANEL MOUNTED (ANGLED)



ESC Code	Description	IP Rating	Poles	Pins	Current	Voltage	ABB Series
216RAU6	ABB Socket Outlet Ang IP44 6H 3P 16A 230V	IP44	2P+E	3P	16A	230V	 EASY & SAFE
232RAU6	ABB Panel Sock Outlet Ang IP44 6H 32A 3P 230V	IP44	2P+E	3P	32A	230V	 EASY & SAFE

IP67 SOCKET PANEL MOUNTED (ANGLED)



ESC Code	Description	IP Rating	Poles	Pins	Current	Voltage	ABB Series
216ERS6W	ABB Panel Socket Outlet Ang IP67 6H 3P 32A 230V	IP67	2P+E	3P	32A	230V	 EASY & SAFE
232ERS6W	ABB Panel Socket Outlet Ang IP67 6H 4P 32A 415V	IP67	3P+E	4P	32A	400/415V	 EASY & SAFE
432ERS6W	ABB Panel Socket Outlet Ang IP67 6H 5P 32A 415V	IP67	3P+N+E	5P	32A	400/415V	 EASY & SAFE

IP67 SOCKET PANEL MOUNTED (STRAIGHT)



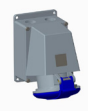
ESC Code	Description	IP Rating	Poles	Pins	Current	Voltage	ABB Series
216QR6W	ABB Socket Outlet STR IP67 6H 3P 16A 230V	IP67	2P+E	3P	16A	230V	 EASY & SAFE
463RU6W	ABB Socket Outlet Panel Str IP67 6H 5P 63A 415V	IP67	3P+N+E	5P	63A	400/415V	 TOUGH & SAFE

Socket

SOCKET SURFACE / WALL MOUNTED

IP44 SOCKET SURFACE / WALL MOUNTED

ESC Code	Description	IP Rating	Poles	Pins	Current	Voltage	ABB Series
216RS6	ABB Socket Outlet IP44 6H 3P 16A 230V	IP44	2P+E	3P	16A	230V	 EASY & SAFE
232ERT6	ABB Wall Mounted Socket IP44 6H 3P 32A 230V	IP44	2P+E	3P	32A	230V	 EASY & SAFE



IP67 SOCKET SURFACE / WALL MOUNTED

ESC Code	Description	IP Rating	Poles	Pins	Current	Voltage	ABB Series
216ERS6W	ABB Socket Outlet IP67 6H 3P 16A 230V	IP67	2P+E	3P	16A	230V	 EASY & SAFE
432ERS6W	ABB Wall Socket Outlet IP67 6H 5P 32A 415V	IP67	3P+N+E	5P	32A	400/415V	 EASY & SAFE
463RS6W	ABB Surface Socket Outlet IP67 6H 5P 63A 415V	IP67	3P+N+E	5P	63A	400/415V	 TOUGH & SAFE



SWITCHED SOCKET (INTERLOCKED)

IP44 SWITCHED SOCKET (INTERLOCKED)

ESC Code	Description	IP Rating	Poles	Pins	Current	Voltage	ABB Series
216MHS6	ABB Socket Outlet Horiz IP44 6H 3P 16A 230V	IP44	2P+E	3P	16A	230V	 CRITICAL & SAFE



IP67 SWITCHED SOCKET (INTERLOCKED)

ESC Code	Description	IP Rating	Poles	Pins	Current	Voltage	ABB Series
216MHS6W	ABB Socket Outlet Horiz IP67 6H 3P 16A 230V	IP67	2P+E	3P	16A	230V	 CRITICAL & SAFE
232MHS9W	ABB Socket Outlet Horiz IP67 9H 3P 32A 230V	IP67	2P+E	3P	32A	380/415	 CRITICAL & SAFE
432MVS6WH	ABB Socket Outlet IP67 6H 32A 5P 400V	IP67	3P+N+E	5P	32A	400/415V	 CRITICAL & SAFE
463MVS6WH	ABB Socket Outlet IP67 6H 5P 63A 415V	IP67	3P+N+E	5P	63A	400/415V	 CRITICAL & SAFE



CARAVAN SUPPLY ADAPTOR



ESC Code	Description	IP Rating	Pins	Poles	Current	Voltage	ABB Series
CVSPA10A	Elmark 1.2M Caravan Supply Adaptor w/10A MCB	(Indoor)	2P+E	3P	16A	230V	

PLUG & CONNECTOR SUPPLY LEAD



ESC Code	Description	IP Rating	Pins	Poles	Current	Voltage	ABB Series
CVL10M16	Elmark IP44 10M Plug & Connector Supply Lead (comes complete with Cable Strain Relief)	IP44	2P+E	3P	16A	230V	
CVL15M16	Elmark IP44 15M Plug & Connector Supply Lead (comes complete with Cable Strain Relief)	IP44	2P+E	3P	16A	230V	
CVL20M16	Elmark IP44 20M Plug & Connector Supply Lead (comes complete with Cable Strain Relief)	IP44	2P+E	3P	16A	230V	
CVL30M16	Elmark IP44 30M Plug & Connector Supply Lead (comes complete with Cable Strain Relief)	IP44	2P+E	3P	16A	230V	
ELDOGBONE	Elmark Rubber Dogbone Cable Strain Relief						

CARAVAN SUPPLY KITS



ESC Code	Description	IP Rating	Pins	Poles	Current	Voltage	ABB Series
CVKIT44	IP44 Caravan Kit - Plug, Connector, Inlet	IP44	2P+E	3P	16A	230V	
CVKIT67	IP67 Caravan Kit - Plug, Connector, Inlet	IP67	2P+E	3P	16A	230V	

INDUSTRIAL PLUGS & SOCKETS ACCESSORIES



IPS ACCESSORIES

ESC Code	Description	Pins
GP216	ABB Plug & Inlet Protective cover, 16A, 3P	3P
GP316	ABB Plug & Inlet Protective cover, 16A, 4P	4P
GP416	ABB Plug & Inlet Protective cover, 16A, 5P	5P
GP232/332	ABB Plug & Inlet Protective cover, 32A, 3P and 4P	3P, 4P
GP432	ABB Plug & Inlet Protective cover, 32A, 5P	5P
GP63	ABB Plug & Inlet Protective cover 63A, 3P,4P & 5P	3P, 4P, 5P
GP125	ABB Plug & Inlet Protective cover,125A 3P,4P & 5P	3P, 4P, 5P
CLF16-125	ABB Plugblocker for Plugs & Inlets, 16-125A	3P, 4P, 5P

PART CODE BREAKDOWN

Poles	Current Rating	Series	Type	Earth Sleeve Position	IP Rating
				(acc to IEC60309-1, -2)	
2 = 2P+E (3P) 3 = 3P+E (4P) 4 = 4P+E (5P)	16A - 125A	E = Screw Connect / Easy & Safe Blank = Tough & Safe	C = Connector P = Plug BS = Inlet Surface Mount BU = Inlet Straight Panel Mount RA = Socket Panel Mounted (Angled) RU = Socket Panel Mounted (Straight) RS = Socket Surface Mounted Wall Mounted	6 = 6H 3 = 3H	W = IP67 Blank = IP44
↓	↓	↓	↓	↓	↓
2	16	Q	C	6	
3	32	E	P	3	W
4	63		BS	6	W
4	63		BU	6	W
2	32		RA	6	
4	63		RU	6	W
2	16		RS	6	



INDUSTRIAL PLUGS AND SOCKETS

ABB's industrial plugs and sockets are a part of the comprehensive ABB program of high quality low voltages products for industries, buildings and OEM's.

ABB have been manufacturing industrial plugs and sockets for its factory in Nyköping, Sweden for over 60 years. They have a wide range of Industrial Plugs & Sockets consisting of high-quality products and robust ergonomic design. Their extensive range covers products up to 125A and 690V, all tested and approved to IEC standards.

The design and materials used have continuously been improved to meet the customer's requirements, while taking environmental aspects into consideration.

ABB's industrial plugs and sockets have the solution for products in industrial environments, with high demands on safety, durability, reliability for the end user.

- **Safety** - Tested and approved by third party testing laboratories.
- **Durability** - Materials used give a high durability in tough conditions and environments.
- **Reliability** - High quality contacts ensure reliability.
- **Cost saving** - designed for quick and easy installation.

Perfect performance

ABB's plugs and sockets comply with the high quality standards requested, when there is a demand for reliability and safety. Some are made of heavy-duty plastics (PBT), others of metal. Some have advanced features while others have a straight forward functionality. Perfect for all types of customers and environments.

Perfect productivity

The reliability of these plugs and sockets will help maintain high up-time in operations. No unscheduled or unwanted interruptions, allowing the installer a high degree of flexibility.

Perfect safety

Safety is also very important. By choosing ABB's plugs and sockets you minimise the risk of short circuits, whilst also ensuring maximum personal safety for anyone nearby or around equipment.

Perfect for the job

Different applications and environments require different products. To make help select the right product, ABB have categorised their range into four groups. All groups have one feature in common - Safety!



**CRITICAL
& SAFE**

- Select Critical & Safe products for the highest safety in installations.



**TOUGH
& SAFE**

- Select Tough & Safe products for best performance in demanding and heavy-duty applications.



**EASY
& SAFE**

- Select Easy & Safe products for adequate functionality and ergonomic design.

ABB's industrial plugs and sockets – a complete offer

- Approved according to IEC 60309-1, -2, -4
- Range from 16A up to 125A.
- IP44 (splash proof) and IP67 (watertight).
- All contacts are self-cleaning and calibrated, to maintain the accurate contact pressure, quality and performance over time.
- Plugs and sockets for 63A and 125A have pins and sleeves carriers in glass reinforced polyamide.
- For devices in the Critical & Safe and Tough & Safe range, all external screws are made of stainless steel.
- Clear terminal markings inside and at the front of the devices.
- Switched interlocked socket-outlets for vertical or horizontal mounting.

Pilot contact

All 63A and 125A plugs & sockets are equipped with a pilot contact pin which helps guide the two parts together safely.

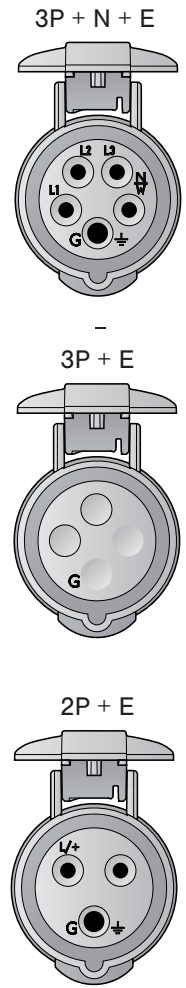
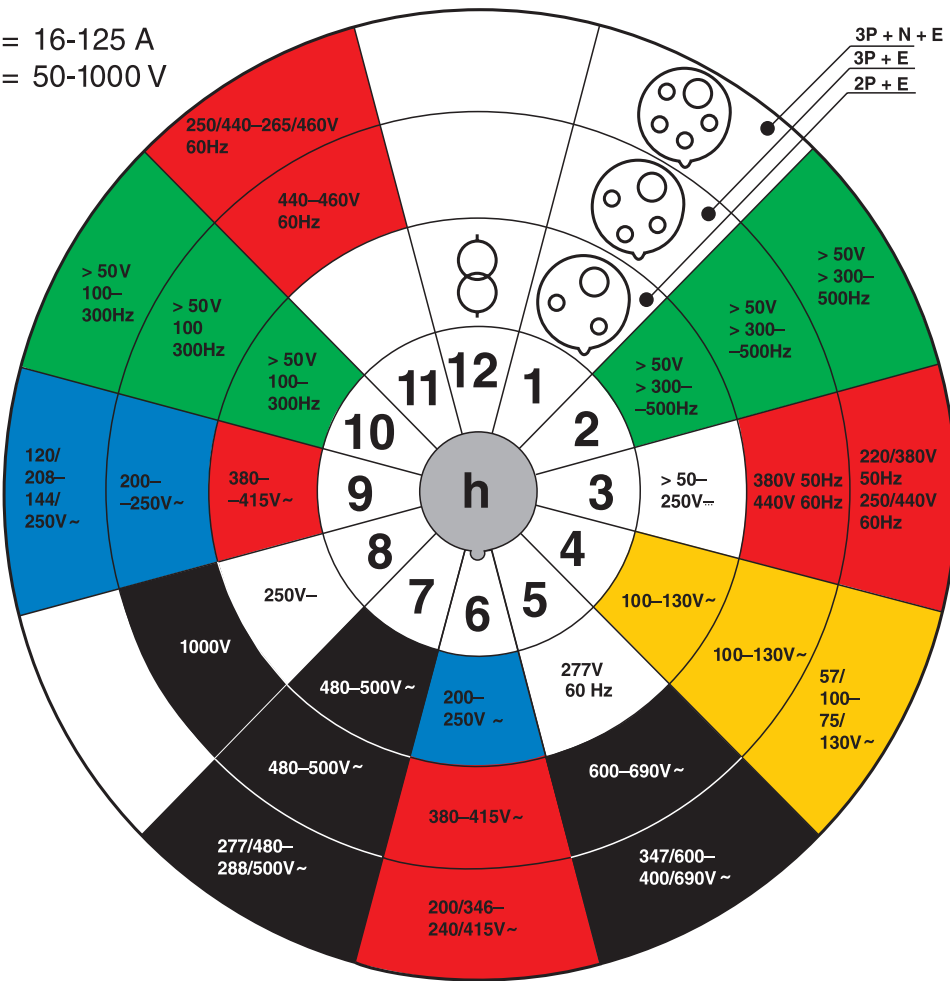
The pilot sleeve is shorter than the other connecting pins and sleeves, this ensures that the circuit is broken safely, before and after the pins are separated.

This system complies with IEC 60309-1 & IEC 60309-2.

INDUSTRIAL PLUGS AND SOCKETS

IEC 60309-2 “clock”

$I_e = 16-125 \text{ A}$
 $U_e = 50-1000 \text{ V}$



Standard voltages

Color codes according to IEC60309-1, -2

Position of earthing sleeve according to IEC 60309-2 (clock)	2P+e earth	3P+ earth	3P+N+ earth
1 All operating voltages and/or currents not stated below	Optional voltage (not stated below)	Optional voltage (not stated below)	Optional voltage (not stated below)
2 Aeronautics/airports, military	>50 V >300-500 Hz 16 A, 32 A	>50 V >300-500 Hz 16 A, 32 A	>50 V >300-500 Hz 16 A, 32 A
3 3-phase only for cooling containers (standardized by ISO)	50-250 V DC	380 V 50 Hz, 440 V 60 Hz 16 A, 32 A	220/380 V 50 Hz, 250/440 V 60 Hz 16 A, 32 A
4 For example in U.K.	100-130 V 50/60 Hz	100-130 V 50/60 Hz	57/100-75/130 V 50/60 Hz
5 Wind power	277 V 60 Hz	600-690 V 50/60 Hz	647/600-400/690 V 50/60 Hz
6 Most common voltages in Western Europe	200-250 V 50/60 Hz	380-415 V 50/60 Hz	200/346-240/415 V 50/60 Hz
7 Paper mills, steel plants, ship building industry	480-500 V 50/60 Hz	480-500 V 50/60 Hz	480-500 V 50/60 Hz
8	>250 V DC	1000 V *)	Not used
9	380-415 V 50/60 Hz	200-250 V 50/60 Hz	Not used
10	Not used	>50 V >100-300 Hz	Not used
11 Mainly for marine installations	Not used	440-460 V 60 Hz	250/440 265/460
12 Supply from isolating transformer	Supply from isolating transformer		Not used

*) 1000 V for 63-125 A



ABB



4-8 Mainstreet Place
Te Rapa, Hamilton , NZ 3200
www.electrical.co.nz

sales@electrical.co.nz
+64 7 849 9119
0800 350 000

Name:

Contact: