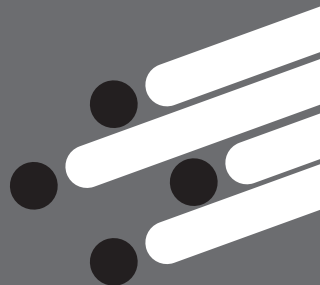


Pluso sockets and plugs for industrial purposes



The 16A and 32A three pole plugs and socket-outlets (2P+⊕, 3P+⊕, 3P+N+⊕) have been upgraded both in the PE/PEW low voltage version and in the SIP/SIPW version with phase inverter.

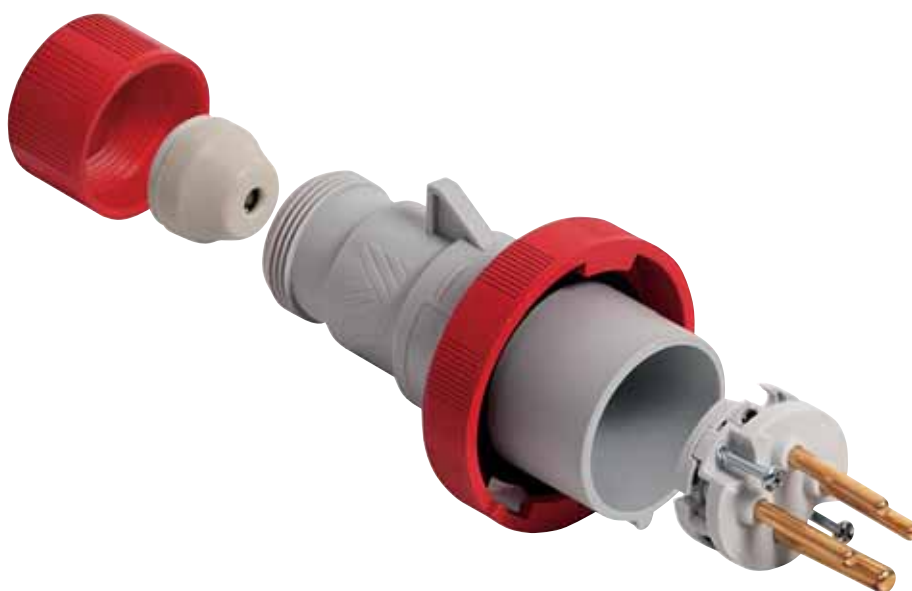
Main Innovations:

- **New "locknut" cable gland and new sturdy "grip" cable clamp** which can be manually tightened without tools or fixing screws.
The cable clamp automatically accommodates all allowed cable sizes without cutting cable glands or grommets.
Greatly reducing the assembly time.
- **Only 2 pre-fitted quick assembly captive screws are required to fix the plug or socket inserts.**
- **New unified plug and socket unit design.**
The plug/socket unit colour for all "standard" models is RAL 7035 light grey and RAL 9005 black for "Heavy Duty" models.
The voltage colour coding, optional for EN 60309-1 and EN 60309-2 standards, but useful to the users, is now included in the new cable gland, in the IP66/IP67 versions locknut or in the socket covers.
- **The new HD (Heavy Duty) versions** are available only in the IP66/IP67 type, able to withstand extreme weather conditions. More specifically, the materials have been changed to be more resistant to low temperatures. The contacts of HD models are nickel plated.
- **Certified** to recently approved variant 1 of the **European standards EN 60309-1 and EN 60309-2**, which gives industrial sockets and plugs the "versatile" **IP66/IP67** degree of protection conforming to EN 60529 standard.

16A and 32A Pluso sockets and plugs are identified with the same standard model type and catalogue. The special "Heavy Duty" models are identified with the PHW and SHPW prefix.

Composition of the part No.: e.g. **PEW 16 6 4 SV**
(low voltage)

item series	PEW	16	6	4	SV
rated current in amperes					
earthing contact position in hours					
number of poles + earth					
design of plug or socket					



These products are the ideal choice for the entertainment industry (to supply lighting equipment and mixer/dimmer assemblies) and are typically used on theatre stages, cinema sets, radio and television broadcasting studios, discos, fair stands, concert halls, public night events, both indoors and outdoors, and similar scenarios.

All models share the extraordinary features of the equivalent versions with grey finish.

The elegant black finish of all visible plastic parts and the labels in non reflecting grey, which are used when the markings are not printed, add a touch of discretion and make these products particularly suitable for scenarios and areas where plugs, sockets and harness should be invisible in absence of light. The range includes several models:

Mobile, wall-mounting, flush-mounting, with IP44 protection class or IP67 on request (mobile plugs and sockets have an IP66/IP67 protection class).

NOTE - Products are available with different voltage and/or frequency and current ratings on request.



PE - PEW - PHW

PE...SV - PEW...SV pages 10-11
coupler plugs, low voltage
from over 50V up to 690V
16A, 32A (IP44)
16A, 32A (IP66/IP67)
63A, 125A (IP67)



PE...PV - PEW...PV pages 12-13
coupler socket-outlets, low voltage
from over 50V up to 690V
16A, 32A (IP44)
16A, 32A (IP66/IP67)
63A, 125A (IP67)



PHW...SV coupler plugs pages 14-15
PHW...PV coupler socket-outlets pages 16-17
low voltage
from over 50V up to 690V
16A, 32A, 63A, 125A (IP66/IP67)
HEAVY DUTY



PE...SA - PEW...SA pages 18-19
angled coupler plugs
low voltage
from over 50V up to 690V
16A, 32A (IP44)
16A, 32A (IP67)



PE...SM - PEW...SM pages 20-21
wall-mounting plugs
low voltage
from over 50V up to 690V
16A, 32A (IP44)
16A, 32A, 63A, 125A (IP67)



PE...PP - PEW...PP pages 22-23
wall-mounting socket-outlets
low voltage
from over 50V up to 690V
16A, 32A (IP44)
16A, 32A, 63A, 125A (IP67)



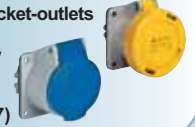
PE...SI - PEW...SI pages 24-25
flush-mounting plugs
low voltage
from over 50V up to 690V
16A, 32A (IP44)
16A, 32A, 63A, 125A (IP67)



PE...PI - PEW...PI pages 26-27
flush-mounting inclined socket-outlets
low voltage
from over 50V up to 690V
16A, 32A (IP44)
16A, 32A, 63A, 125A (IP67)



PE...PQ - PEW...PQ pages 28-29
flush-mounting straight socket-outlets
low voltage
from over 50V up to 690V
16A, 32A (IP44)
16A, 32A, 63A, 125A (IP67)



SIP

SIP...SM - SIPW...SM page 30
wall-mounting plugs
with phase inverter
low voltage
16A, 32A (IP44)
16A, 32A (IP67)



SIP...SI - SIPW...SI page 31
flush-mounting plugs
with phase inverter
low voltage
16A, 32A (IP44)
16A, 32A (IP67)



SIP...SV - SIPW...SV page 31
plugs
with phase inverter
low voltage
16A, 32A (IP44)
16A, 32A (IP66/IP67)



PN

PN...SV page 32
coupler plugs
low voltage
from over 50V up to 690V
16A (IP44)



PN...PV page 32
coupler socket-outlets
low voltage
from over 50V up to 690V
16A (IP44)



page 33
PN...PI flush-mounting inclined socket-outlets
PN...PQ flush-mounting straight socket-outlets
low voltage
from over 50V up to 690V
16A (IP44)



PB

PB...PP page 34
wall-mounting socket-outlets
extra-low voltages
up to 50V
16A, 32A (IP44)



PB...PI page 35
flush-mounting socket-outlets
extra-low voltages
up to 50V
16A, 32A (IP44)



PB...PV page 35
couplers
extra-low voltages
up to 50V
16A, 32A (IP44)



PB...SM page 36
wall-mounting plugs
extra-low voltages
up to 50V
16A, 32A (IP44)



PB...SV page 37
plugs
extra-low voltages
up to 50V
16A, 32A (IP44)



CS

PEW...CS pages 10-18-20-25-30
loose protective cover
accessories for
IP66/IP67 (optional)
16A, 32A, 63A, 125A





EN 60309-1 and EN 60309-2 standards

In 1990, **CENELEC** (European Electrotechnical Standards Committee) introduced the provisions of the international publications IEC 60309-1 and IEC 60309-2 into the two corresponding European standards EN 60309-1 and EN 60309-2 (classification CEI 23-12/1 and 23-12/2). **IEC** (*International Electrotechnical Commission*), the worldwide organisation for electrotechnical standardisation had adopted these publications basing them almost entirely on the EEC 17 Publication of 1958, now withdrawn, issued by the now dissolved organisation **CEEel**. This is why still today this system of industrial sockets and plugs is traditionally called by many "EEC". The European standards EN 60309-1 and -2 were then compulsorily adopted as national standards by all the CENELEC member states (which as from 1 May 2004, with the expansion of the EU, include Austria, Belgium, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Ireland, Iceland, Italy, Latvia, Lithuania, Luxembourg, Malta, Norway, Holland, Poland, Portugal, United Kingdom, Czech Republic, Slovakia, Slovenia, Spain, Sweden, Switzerland and Hungary). All conflicting national standards have at the same time been abolished.

Today, therefore, the manufacture of plugs and socket-outlets for industrial use has been harmonised throughout Europe. Before its termination, CEEel's members also included Bulgaria, Israel, former Yugoslavia (today Bosnia, Croatia, Macedonia, Serbia with Montenegro, Slovenia) and the former Soviet Union (today the Russian Federation).

In virtue of the correspondence with the IEC publications, this industrial plugs and socket-outlets system is widely known and appreciated in leading non-European countries such as Argentina, Australia, Brazil, Canada, China, Korea, Egypt, Japan, India, South Africa, Turkey and the USA. In Italy the above harmonisation is regulated by standards EN 60309-1 and EN 60309-2. In 1999 the fourth editions of the IEC publications were adopted as EN by the CENELEC and published in Italy in 2000.

The technical notes below and the products illustrated in the present booklet refer to series 1 versions, used in Europe on the basis of said European Standards and in countries of European technical-cultural origin (e.g.: most of Latin America, Australia, South Africa). A series 2 also exists, which differs for its rated current, voltage and frequency values and for its polarity and pole marking, adapting to North American installation standards and those of countries that have adopted this system (e.g. Mexico, Japan).

The Provisions of the Standards

Each model of plug and socket is unique and has a specific use. Each model has safety devices that make it impossible to insert a plug into a socket made for a different capacity, voltage, frequency and number of poles.

In the "low voltage" versions, the safety system is based on two references:

- a guiding groove on the socket that corresponds to a nib on the plug;
- an earthing contact of increased capacity with respect to the other contacts, and located in different hour positions according to the voltages used.

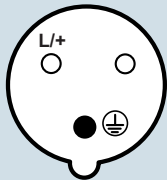
The 63A and 125A plugs have a pilot contact for operating an electric interlock.

Hour Position (h)

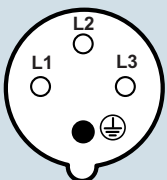
This position is determined by looking at the front of the socket and placing the major guiding groove at the 6 o'clock position and noting the hour position of the earthing contact.

Following are examples of three different polarities with the earth contact at the 6 o'clock position.

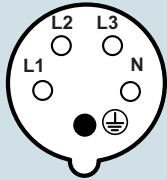
Socket - front view



major key



major key



major key

Low voltage over 50V up to 690V

Number of poles	frequency	rated operating voltage	hour position (h) earthing contact (*)		colour
	Hz	V	16A and 32A	63A and 125A	
2P+	50 and 60	100 - 130	4	4	yellow
	50 and 60	200 - 250	6	6	blue
	50 and 60	380 - 415	9	9	red
	50 and 60	480 - 500	7	7	black
	50 and 60	supply from isol. transf.	12	12	(**)
	100 - 300	> 50	-	-	(***)
	> 300 - 500	> 50	2	-	(***)
	direct current	> 50 - 250	3	3	(**)
	direct current	> 250	8	8	(**)
3P+	50 and 60	100 - 130	4	4	yellow
	50 and 60	200 - 250	9	9	blue
	50 and 60	380 - 415	6	6	red
	60	440 - 460 ☆	11	11	red
	50 and 60	480 - 500	7	7	black
	50 and 60	600 - 690	5	5	black
	50 60	380 440 ⚡	3	-	red
	100 - 300	> 50	10	-	(***)
	> 300 - 500	> 50	2	-	(***)
3P+N+	50 and 60	57/100 - 75/130	4	4	yellow
	50 and 60	120/208 - 144/250	9	9	blue
	50 and 60	200/346 - 240/415	6	6	red
	50 and 60	277/480 - 288/500	7	7	black
	50 and 60	347/600 - 400/690	5	5	black
	60	250/440 - 265/460 ☆	11	11	red
	50 60	220/380 250/440 ⚡	3	-	red
	100 - 300	> 50	-	-	(***)
	> 300 - 500	> 50	2	-	(***)
all types	all rated operating voltages and/or frequencies not covered by other configurations		1	1	(**)

☆ Mainly for marine installations
⚡ Only for refrigerated containers (standardised by ISO)
(*) The positions indicated with dashes "-" are not standardised
(**) Colour according to voltage
(***) If necessary, green may be used together with the colour of the operating voltage for frequencies of over 60 Hz up to 500 Hz inclusive

The Provisions of the Standards

Each model of plug and socket is unique and has a specific use. Each model has safety devices that make it impossible to insert a plug into a socket made for a different capacity, voltage, frequency and number of poles.

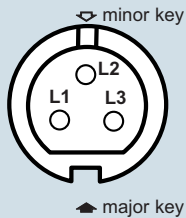
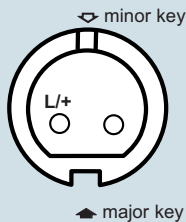
In the “extra-low voltage” versions with no earthing contact, the safety system is based on two references:

- a guiding groove (key way) on the plug that corresponds to a nib on the socket (major key) that is fixed at the 6 o'clock position
- another groove on the plug (minor key) and a nib on the socket (minor key) that can be positioned on different hours, according to the operating requirements.

Hour Position (h)

This position is determined by looking at the front of the socket and placing the major key way at the 6 o'clock position and noting the hour position of the minor key. Following are examples of two different polarities with the minor key at the 12 o'clock position.

Socket - front view



Extra low voltage up to 50V

Number of poles	frequency	rated operating voltage	hour position (h) minor key position (*)	colour	
	Hz	V	16A and 32A		
2P	50 and 60	20 - 25	no key way		violet
	50 and 60	40 - 50	12		white
	> 100 - 200	20 - 25 and 40 - 50	4		(**)
	300	20 - 25 and 40 - 50	2		(**)
	400	20 - 25 and 40 - 50	3		(**)
	> 400 - 500	20 - 25 and 40 - 50	11		(**)
	d.c.	20 - 25 and 40 - 50	10		white
3P	50 and 60	20 - 25	no key way		violet
	50 and 60	40 - 50	12		white
	> 100 - 200	20 - 25 and 40 - 50	4		(**)
	300	20 - 25 and 40 - 50	2		(**)
	400	20 - 25 and 40 - 50	3		(**)
	> 400 - 500	20 - 25 and 40 - 50	11		(**)

(*) Positions 1, 8 and 9 are reserved for future standardisation. For constructional reasons, positions 5, 6 and 7 cannot be used.

(**) If necessary, green may be used together with the colour of the operating voltage for frequencies higher than 60 Hz up to 500 Hz inclusive.

Size of connectable conductors according to EN 60309-1

Conductor cross-sections in mm² usable in socket-outlets and plugs

rated operating voltage	rated current	fixed plugs* (rigid or semi rigid conductors)		plugs and couplers (rigid or semi fixed plugs rigid conductors)	
		min	max	min	max
over 50V up to 690V	16A	1.5	4	1	2.5
	32A	2.5	10	2.5	6
	63A	6	25	6	16
	125A	25	70	16	50
up to 50V	16A	4	10	4	10
	32A	4	10	4	10

For pilot contacts (63A ad 125A socket-outlets and plugs), refer to the conductors which can be used in the 16A socket-outlets and plugs with a rated voltage of over 50V.

* It is also possible to connect flexible conductors to fixed sockets and plugs. The equivalent section of the flexible conductor is generally one size smaller than the rigid or the semi rigid conductor. Please refer to EN 60309-1 and -2 norms.

Use of multipolar cables according to EN 60309-1

Min. and max. diameters of cables which clamped in couplers and plugs

rated operating voltage	rated current	approximate external cable ø in mm (cables type HO5 RR-F and HO7 RN-F)	
		min	max
over 50V up to 690V	16A	8.1	15.3
	32A	11.5	21.3
	63A	17.3	31.3
	125A	26.0	48.8
up to 50V	16A	13.5	22.8
	32A	13.5	22.8



Degrees of pollution

The pollution degrees define the environmental conditions. To go into more detail, standard IEC 60664-1 clarifies that pollution is defined as any contribution of foreign matter, whether a solid, liquid or gaseous (ionised gas), that may negatively affect the dielectric strength of the surface resistivity of the insulating material. Four degrees of pollution are defined and are described by conventional numbers based on the quantity of polluting agent or on the frequency with which the phenomenon occurs that reduces the dielectric strength and/or the surface resistivity.

pollution degree 1:
no pollution or only dry non-conductive pollution.
The pollution has no influence.

pollution degree 2:
only non-conductive pollution except that occasionally a temporary conductivity caused by condensation is to be expected.

pollution degree 3:
conductive pollution occurs or dry non conductive pollution occurs which becomes conductive due to condensation which is to be expected ¹³⁾.

The **pollution degree 3** refers to an industrial or similar environment.
The **pollution degree 2** refers to a household or similar environment.

The third edition and the forthcoming fourth edition of EN 60309-1 standard (IEC 60309-1) specifies that the normal use environment for the industrial plugs and socket-outlets complying with this standard has a pollution degree 3 according to standard IEC 60664-1.

¹³⁾ Pollution degree 4 was eliminated in the new standard edition as clearly illogical: conditions of persistent conductivity caused for example by conductive dust, rain or snow are definitely to be avoided throughout the project, and no isolating distance is capable of withstanding them.

¹⁴⁾ The **IP66/IP67** degree of protection will officially be introduced in the next amendment 1 of the standards EN 60309-1 and EN 60309-2 (and of the relating IEC standards). It is already accounted for in the IP degree of protection standard EN 60529 as a "versatile" form of protection, covering the fact that the temporary immersion resistance test (protection IPX7) does not automatically comply with the two lower degrees of protection IPX6 and IPX5, tested with the respective jet tests. If the end user requires the equipment to resist both against temporary immersions and pressurized water jets, declaredly IP66/IP67 devices with double marking must be selected.

IP degree of protection and the EN 60529 standard

The minimum IP degree of protection is regulated by the CEI 64-8 installation standards (inclusion of the harmonisation documents of the CENELEC HD384 series and the IEC 60364 publication) which, in part 7, cover a number of special environments: construction and demolition sites, structures designed for agricultural or livestock breeding use, restricted conductor areas, caravans and caravan sites, environments with a greater risk in case of fire, public performance and entertainment areas, pools and, in the future, fountains and marinas and harbour areas. The standard is applicable to enclosures for electric materials with a rated power no greater than 72.5 kW. All the equipment must be installed according to the rule of art and must comply with any manufacturer's assembly instructions. When components of different degrees of protection are assembled, the resulting board or distribution system will assume the lowest degree of protection of the mounted components.

This has been assessed and applies:
- socket-outlets, when a plug of the same degree of protection is inserted or when the cover is closed (with counternuts tightened for IP67).
- plugs (with counternuts tightened for IP67).
- for cases, when all the covers are adequately closed.

The range of ILME products presented in this catalogue offers the following range of protection:

- IP44:** protection against the *penetration of solid foreign objects* with a diameter equal to or greater than 1 mm for protection against the intrusion of dangerous parts with an access calibre of Ø 1 mm (1st digit), and protected against the *dangerous effects of water spray* from all directions (2nd digit).
- IP55:** Protection against the *penetration of harmful quantities of powder* and against *access to dangerous parts* with an access calibre of Ø 1 mm (1st digit) and protected against the *dangerous effects of water jets* with a nozzle from all directions (2nd digit).
- IP66:** total protection against *dust* and access to *dangerous parts* with an accessibility calibre of Ø 1 mm (1st digit), and protected against *powerful water jets* such as sea waves (2nd digit).
- IP67:** Total protection against *powder* and against *access to dangerous parts* with an access calibre of Ø 1 mm (1st digit) and protected against the *effects of temporary immersion* (30') in water at a maximum depth of 1 meter (2nd digit).

The socket-outlets with IP55 degree of protection and those with double degree of protection IP66/IP67 ¹⁴⁾ have a bayonet jointed lid, traditionally defined as "water-tight" and require plugs with IP67 degree of protection (with counternut and gasket) to preserve the degree of protection marked on the apparatus.

1 st characteristic numeral			2 nd characteristic numeral		
Personal protection against contact with hazardous parts			Protection of materials against harmful penetration of water		
IP	External solid foreign bodies	Protection	IP	Tests	Protection
0		none	0		none
1		against solid foreign objects with Ø greater or equal to 50 mm (e.g. hand)	1		against vertical drops of water
2		against solid foreign objects with Ø greater or equal to 12 mm (e.g. finger)	2		against drops of water at an angle of 15°
3		against solid foreign objects with Ø greater or equal to 2.5 mm (e.g. tools and wires)	3		against drops of water at an angle of 60°
4		against solid foreign objects with Ø greater or equal to 1 mm (e.g. fine tools and wires)	4		against water sprayed from all directions
5		dust-protected	5		against jets of water from all directions
6		dust-tight	6		against powerful jets of water (such as sea waves)
			7		against the effect of temporary immersion in water at a depth of 1 metre
			8		against the effects of continuous immersion in water

General characteristics

This chapter explains the technical characteristics of the PLUSO series plugs and socket-outlets for industrial purposes.

The range of products covers a wide number of different installation requirements. The plugs and socket-outlets are suitable for fixed or mobile installations.

The fixed plugs and socket-outlets may be wall or flush-mounted.

Thanks to the wide range of the ILME enclosures of the FM, FC and BK series (types BC...) the flush-mounting plugs and socket-outlets can be assembled rapidly in a group configuration.

These construction features enable ILME plugs and socket-outlets to be suitable for use in the most demanding applications:

- the mechanical industry
- the shipbuilding industry
- the chemical and petrochemical industry
- the services sector
- the building industry
- the agricultural and livestock breeding sector

The following parameters must be considered when selecting the correct type of plugs and socket-outlets:

- rated current of the device to feed through plug and socket-outlet coupling;
- the rated voltage of the power supply and the type of distribution (single phase or three-phase, with or without the neutral conductor) to determine the number of poles for the hour position.
- The hour position "1h" is available for all those voltages or voltage ranges > 50V and for frequencies or ranges of frequencies not covered by the standards.
- The type of installation (fixed or mobile) to determine the construction type of the plug and socket (flush-mounting straight or inclined, wall, mobile, mobile angled).
- The location of the installation to determine the degree of protection required (IP44 or IP67) and the voltage (in some areas the installation standards require very low safety voltage).

The following types of plugs and socket-outlets are available:

- wall-mounting plugs and socket-outlets (low and extra-low voltage).
- plugs and socket-outlets and straight flush-mounting socket-outlets (low and extra-low voltage).
- plugs and inclined flush-mounting socket-outlets (low voltage)
- straight plugs and couplers (low and extra-low voltage).
- angled plugs (low voltage).
- 5-pole plugs with phase inverter (low voltage, SIP type).

Electrical Features

rated frequency:

0 Hz (direct current), and from 50 Hz to 500 Hz

rated operating voltage:

the standard identifies two main types of use:

- extra-low voltage socket-outlets (and relative plugs), (SELV safety requirements, in accordance with the CEI 64-8 installation standard), for effective voltage values of up to 50V inclusive
- low voltage socket-outlets (and plugs) for effective voltage values of over 50V and up to 690V

polarity:

the versions are designed with:

- 2 and 3 poles (extra-low voltage: 2P, 3P)
- 3, 4 and 5 poles (low voltage: 2P+⊕, 3P+⊕, 3P+N+⊕)

The 63A and 125A plugs and socket-outlets have an additional pilot contact.

rated current:

with 16A, 32A, 63A and 125A values (low voltage)

with 16A and 32A (extra-low voltage).

rated insulation voltage:

- **690V** for low voltage plugs and socket-outlets
- **50V** for extra-low voltage plugs and socket-outlets
- minimum surface insulation distance: 10 mm (EN 60309-1)*

minimum air insulation distance: 8 mm (for rated operating voltages higher than 500V)

breaking capacity:

1.25 times greater than the rated current value (test performed at a voltage of 1.1 times the operating voltage).

Mechanical features

- mechanical resistance

verified with the provisions of Article 24 of the EN 60309-1 standard (IEC 60309-1)

- resistance to chemical agents

please contact ILME SpA

- degree of protection

IP44 and IP67 according to EN 60529 (see information on page 6)

- resistance to glow-wire

in accordance with standard IEC 60695 -2 -11: for enclosures: 960 °C, 850 °C and 750 °C;
for inserts: 960 °C

- temperatures

ambient: -25 °C + +40 °C; materials limit: -40 °C + +125 °C

- self-extinguishing capacity

classification UL 94:

for enclosures **V2** and **HB**;

for 16A, 32A and 63A type inserts, **V2**;

for types 125A, **5VA** and **V0**

Materials

- enclosures and inserts in self-extinguishing insulating thermoplastic material
- anti-aging elastomer gaskets
- brass pins (nickel-plated for the 63A and 125A plugs and socket-outlets, on request for the 16A and 32A plugs and socket-outlets)
- self-centring brass contact tubes with zinc-plated steel spring
- zinc-plated steel assembly screws (stainless steel for the 63A and 125A socket-outlets)
- terminals with zinc-plated screws retained in their seats when unscrewed
- 32A, 63A and 125A plugs and socket-outlets with two fixing screws in the terminals as protection against accidental loss
- 63A and 125A plugs and socket-outlets terminals with zinc-plated steel plate for wire protection

The supply package

Plugs and socket-outlets are supplied with:

- anti-oil and anti-aging gaskets
- self-threading fixing screws

The following is available on request:

- cable glands, gaskets, lock nuts and sealing plugs for wall-mounting plugs and socket-outlets
- FM, FC and BK (types BC...) ILME enclosures for flush-mounting plugs and socket-outlets



Composition of the part No.: e.g. **PEW 125 12 3 PP**
 (low voltage)
 article series
 rated current in amperes
 earthing contact position in hours
 number of poles + earth
 design of plug or socket

PE (IP44) and PEW (IP67) socket-outlets and couplers

low voltage over 50V up to 690V

	wall-mounting socket-outlets		straight flush-mounting socket-outlets **		inclined flush-mounting socket-outlets **		coupler socket-outlets **	
IP67								
IP44								
	PE...PP page 22	PEW...PP page 23	PE...PQ page 28	PEW...PQ page 29	PE...PI page 26	PEW...PI page 27	PE...PV page 12	PEW...PV page 13
* IP66/IP67	16A 32A	16A 32A 63A 125A	16A 32A	16A 32A 63A 125A	16A 32A	16A 32A 63A 125A	16A 32A	16A * 32A * 63A 125A
	2P+⊕ 3P+⊕ 3P+N+⊕	2P+⊕ 3P+⊕ 3P+N+⊕	2P+⊕ 3P+⊕ 3P+N+⊕	2P+⊕ 3P+⊕ 3P+N+⊕	2P+⊕ 3P+⊕ 3P+N+⊕	2P+⊕ 3P+⊕ 3P+N+⊕	2P+⊕ 3P+⊕ 3P+N+⊕	2P+⊕ 3P+⊕ 3P+N+⊕

** Black versions for entertainment, precode PN...PQ/PI/PV/SV

PE (IP44) and PEW (IP67) plugs

low voltage over 50V up to 690V

	wall-mounting plugs		flush-mounting plugs		coupler plugs **		90° angled coupler plugs	
IP67								
IP44								
	PE...SM page 20	PEW...SM page 21	PE...SI page 24	PEW...SI page 25	PE...SV page 10	PEW...SV page 11	PE...SA page 18	PEW...SA page 19
* IP66/IP67	16A 32A	16A 32A 63A 125A	16A 32A	16A 32A 63A 125A	16A 32A	16A * 32A * 63A 125A	16A 32A	16A 32A
	2P+⊕ 3P+⊕ 3P+N+⊕	2P+⊕ 3P+⊕ 3P+N+⊕	2P+⊕ 3P+⊕ 3P+N+⊕	2P+⊕ 3P+⊕ 3P+N+⊕	2P+⊕ 3P+⊕ 3P+N+⊕	2P+⊕ 3P+⊕ 3P+N+⊕	2P+⊕ 3P+⊕ 3P+N+⊕	2P+⊕ 3P+⊕ 3P+N+⊕

Composition of the part No.: e.g. **PB 16 12 2 PV**
(extra-low voltage)

article series _____
rated current in amperes _____
auxiliary reference in hours _____
number of poles _____
design of plug or socket _____

HEAVY DUTY plugs and socket-outlets type PHW (IP66/IP67)

low voltage over 50V up to 690V

coupler socket-outlets

coupler plugs

**IP66/
IP67**



NEW



PHW...PV
pages 16 - 17

PHW...SV
pages 14 - 15

16A
32A
63A
125A

16A
32A
63A
125A

2P+⊕
3P+⊕
3P+N+⊕

2P+⊕
3P+⊕
3P+N+⊕

phase inverters type SIP (IP44) and SIPW (IP67)

low voltage over 200V up to 415V

wall-mounting plugs
with phase inverter

flush-mounting plugs
with phase inverter

plugs with phase inverter

IP67

IP44



SIP...SM
page 30

SIPW...SM
page 30

SIP...SI
page 31

SIPW...SI
page 31

SIP...SV
page 31

SIPW...SV
page 31

16A
32A

16A
32A

16A
32A

16A
32A

16A
32A

16A
32A

3P+N+⊕

3P+N+⊕

3P+N+⊕

3P+N+⊕

3P+N+⊕

3P+N+⊕

PB plugs and socket-outlets

extra-low voltage up to 50V

wall-mounting
socket-outlets

flush-mounting
socket-outlets

couplers

wall-mounting plugs

plugs

IP44



PB...PP
page 34

PB...PI
page 35

PB...PV
page 35

PB...SM
page 36

PB...SV
page 37

16A
32A

16A
32A

16A
32A

16A
32A

16A
32A

2P
3P

2P
3P

2P
3P

2P
3P

2P
3P

PE...SV coupler plugs, low voltage from over 50V up to 690V



- Compliant with EN 60309-1 and -2
- Enclosure, insert and locking ring in insulating, thermoplastic, self-extinguishing material
- PE...SV types 16A and 32A (IP44), entry with cable gland colour coded according to the operating voltage, RAL 7035 grey enclosure
- PEW...SV types 16A and 32A (IP66/IP67), entry with cable gland colour coded according to the operating voltage, RAL 7035 grey enclosure, locking ring with gasket colour coded according to operating voltage
- PEW...SV types 63A and 125A (IP67), entry with cable gland, RAL 7035 grey enclosure, locking ring with gasket colour coded according to operating voltage
- PEW...SV types 63A and 125A (IP67), cable anchoring collar incorporated in the insert
- SIP version with phase inverter (3P+N+⊕, h6) page 31
- Terminals with retained screws
- 63A, 125A: with pilot contact
- Nickel-plated contacts standard on 63A and 125A (on 16A and 32A only version PHW...SV page 14)
- IP44 and IP66/IP67 degrees of protection (EN 60529)
- ⊕ with Italian Quality Mark

16A
IP44 degree of protection



NEW

32A
IP44 degree of protection



NEW

Number of poles	Frequency Hz	Voltage V	Earthing contact position h	Part No.	Colour	Part No.	Colour
2P+⊕	50 and 60	100 - 130	4	PE 1643 SV ⊕		PE 3243 SV ⊕	
	50 and 60	200 - 250	6	PE 1663 SV ⊕		PE 3263 SV ⊕	
	50 and 60	380 - 415	9	PE 1693 SV ⊕		PE 3293 SV ⊕	
	50 and 60	480 - 500	7	PE 1673 SV ⊕		PE 3273 SV ⊕	
	50 and 60	ins. transformer	12	PE 16123 SV ⊕		PE 32123 SV ⊕	
	> 300 - 500	> 50	2	PE 1623 SV ⊕		PE 3223 SV ⊕	
	d.c.	> 50 - 250	3	PE 1633 SV ⊕		PE 3233 SV	
	d.c.	> 250	8	PE 1683 SV		PE 3283 SV	
	50 and 60	100 - 130	4	PE 1644 SV ⊕		PE 3244 SV ⊕	
	50 and 60	200 - 250	9	PE 1694 SV ⊕		PE 3294 SV ⊕	
3P+⊕	50 and 60	380 - 415	6	PE 1664 SV ⊕		PE 3264 SV ⊕	
	60	440 - 460	11	PE 16114 SV ⊕		PE 32114 SV ⊕	
	50 and 60	480 - 500	7	PE 1674 SV ⊕		PE 3274 SV ⊕	
	50 and 60	600 - 690	5	PE 1654 SV		PE 3254 SV	
	50	380	3	PE 1634 SV ⊕		PE 3234 SV ⊕	
	60	440	3	PE 1634 SV ⊕		PE 3234 SV ⊕	
	100 - 300	> 50	10	PE 16104 SV ⊕		PE 32104 SV ⊕	
	> 300 - 500	> 50	2	PE 1624 SV ⊕		PE 3224 SV ⊕	
	50 and 60	57/100 - 75/130	4	PE 1645 SV ⊕		PE 3245 SV ⊕	
	50 and 60	120/208 - 144/250	9	PE 1695 SV ⊕		PE 3295 SV ⊕	
3P+N+⊕	50 and 60	200/346 - 240/415	6	PE 1665 SV ⊕		PE 3265 SV ⊕	
	50 and 60	277/480 - 288/500	7	PE 1675 SV ⊕		PE 3275 SV ⊕	
	50 and 60	347/600 - 400/690	5	PE 1655 SV		PE 3255 SV	
	60	250/440 - 265/460	11	PE 16115 SV ⊕		PE 32115 SV ⊕	
	50	220/380	3	PE 1635 SV ⊕		PE 3235 SV ⊕	
	60	250/440	3	PE 1635 SV ⊕		PE 3235 SV ⊕	
	> 300 - 500	> 50	2	PE 1625 SV ⊕		PE 3225 SV ⊕	

Legend

A.V. = Colour according to voltage
(*) Green may be used together with the colour of the operating range for frequencies above 60 Hz and up to a maximum of 500 Hz.

Accessories for IP66/IP67 plugs (optional)



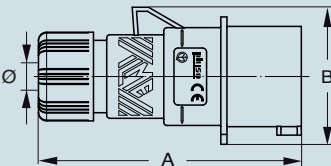
Loose protective cover

Size	Polarity	Part No.
16A	2P+⊕	PEW 163 CS
16A	3P+⊕	PEW 164 CS
16A	3P+N+⊕	PEW 165 CS
32A	2/3P+⊕	PEW 324 CS
32A	3P+N+⊕	PEW 325 CS
63A	All	PEW 63 CS
125A	All	PEW 125 CS

dimensions shown are not binding
and may be changed without notice

dimensions in mm

(16 / 32A) PE ... SV



PE...SV	A	B	ø min	ø max
16A 2P+⊕	129	59.5	7	16
3P+⊕	129	67	7	16
3P+N+⊕	129	75	8	24
32A 2P+⊕	150	81	8	24
3P+⊕	150	81	8	24
3P+N+⊕	150	90	8	24

PEW...SV coupler plugs, low voltage from over 50V up to 690V

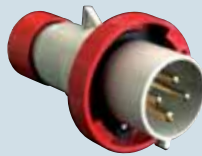


16A
IP66/IP67 degrees of protection



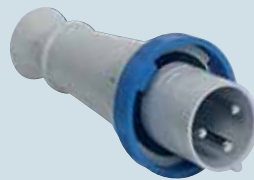
NEW

32A
IP66/IP67 degrees of protection



NEW

63A
IP67 degree of protection



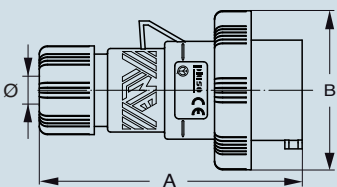
125A
IP67 degree of protection



Part No.	Colour	Part No.	Colour	Part No.	Colour	Part No.	Colour
PEW 1643 SV ☉	Yellow	PEW 3243 SV ☉	Yellow	PEW 6343 SV ☉	Yellow	PEW 12543 SV ☉	Yellow
PEW 1663 SV ☉	Blue	PEW 3263 SV ☉	Blue	PEW 6363 SV ☉	Blue	PEW 12563 SV ☉	Blue
PEW 1693 SV ☉	Red	PEW 3293 SV ☉	Red	PEW 6393 SV ☉	Red	PEW 12593 SV ☉	Red
PEW 1673 SV ☉	Black	PEW 3273 SV ☉	Black	PEW 6373 SV ☉	Black	PEW 12573 SV ☉	Black
PEW 16123 SV ☉	A.V.	PEW 32123 SV ☉	A.V.	PEW 63123 SV ☉	A.V.	PEW 125123 SV ☉	A.V.
PEW 1623 SV ☉	(*)	PEW 3223 SV ☉	(*)				
PEW 1633 SV ☉	A.V.	PEW 3233 SV	A.V.	PEW 6333 SV	A.V.	PEW 12533 SV	A.V.
PEW 1683 SV	A.V.	PEW 3283 SV	A.V.	PEW 6383 SV	A.V.	PEW 12583 SV	A.V.
PEW 1644 SV ☉	Yellow	PEW 3244 SV ☉	Yellow	PEW 6344 SV ☉	Yellow	PEW 12544 SV ☉	Yellow
PEW 1694 SV ☉	Blue	PEW 3294 SV ☉	Blue	PEW 6394 SV ☉	Blue	PEW 12594 SV ☉	Blue
PEW 1664 SV ☉	Red	PEW 3264 SV ☉	Red	PEW 6364 SV ☉	Red	PEW 12564 SV ☉	Red
PEW 16114 SV ☉	Black	PEW 32114 SV ☉	Black	PEW 63114 SV ☉	Black	PEW 125114 SV ☉	Black
PEW 1674 SV ☉	Black	PEW 3274 SV ☉	Black	PEW 6374 SV ☉	Black	PEW 12574 SV ☉	Black
PEW 1654 SV	Black	PEW 3254 SV	Black	PEW 6354 SV	Black	PEW 12554 SV	Black
PEW 1634 SV ☉	Red	PEW 3234 SV ☉	Red				
PEW 1634 SV ☉	Red	PEW 3234 SV ☉	Red				
PEW 16104 SV ☉	(*)	PEW 32104 SV ☉	(*)				
PEW 1624 SV ☉	(*)	PEW 3224 SV ☉	(*)				
PEW 1645 SV ☉	Yellow	PEW 3245 SV ☉	Yellow	PEW 6345 SV ☉	Yellow	PEW 12545 SV ☉	Yellow
PEW 1695 SV ☉	Blue	PEW 3295 SV ☉	Blue	PEW 6395 SV ☉	Blue	PEW 12595 SV ☉	Blue
PEW 1665 SV ☉	Red	PEW 3265 SV ☉	Red	PEW 6365 SV ☉	Red	PEW 12565 SV ☉	Red
PEW 1675 SV ☉	Black	PEW 3275 SV ☉	Black	PEW 6375 SV ☉	Black	PEW 12575 SV ☉	Black
PEW 1655 SV	Black	PEW 3255 SV	Black	PEW 6355 SV	Black	PEW 12555 SV	Black
PEW 16115 SV ☉	Red	PEW 32115 SV ☉	Red	PEW 63115 SV ☉	Red	PEW 125115 SV ☉	Red
PEW 1635 SV ☉	Red	PEW 3235 SV ☉	Red				
PEW 1635 SV ☉	Red	PEW 3235 SV ☉	Red				
PEW 1625 SV ☉	(*)	PEW 3225 SV ☉	(*)				

dimensions in mm

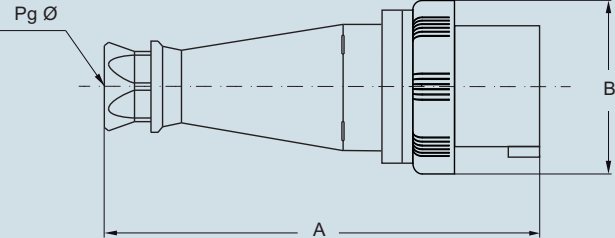
(16 / 32A) PEW ... SV



PEW...SV	A	B	ø min	ø max
16A 2P+☉	129	70	7	16
3P+☉	129	77	7	16
3P+N+☉	129	86	8	24
32A 2P+☉	150	92	8	24
3P+☉	150	92	8	24
3P+N+☉	150	100	8	24

dimensions in mm

(63 / 125A) PEW ... SV



PEW...SV	A	B	Pg ø
63A 2P+☉	264.5	112	36
3P+☉	264.5	112	36
3P+N+☉	264.5	112	36
125A 2P+☉	310	130	2"gas
3P+☉	310	130	2"gas
3P+N+☉	310	130	2"gas

PE...PV coupler socket-outlets, low voltage from over 50V up to 690V



- Compliant with EN 60309-1 and -2
- Enclosure, insert and spring lid in insulating, thermoplastic, self-extinguishing material
- PE...PV types 16A and 32A (IP44), RAL 7035 grey enclosure, spring lid colour coded according to the operating voltage, entry with cable gland
- PEW...PV types 16A, 32A, 63A and 125A (IP66/IP67), RAL 7035 grey enclosure, spring lid with locking ring and gasket colour coded according to the operating voltage, entry with cable gland
- PEW...PV types 63A and 125A (IP67), cable anchoring collar incorporated in the insert
- Terminals with retained screws
- 63A, 125A: with pilot contact
- Nickel-plated contacts standard on 63A and 125A (on 16A and 32A only version PHW...PV page 16)
- IP44 and IP66/IP67 degrees of protection (EN 60529)
- with Italian Quality Mark

16A
IP44 degree of protection



NEW

32A
IP44 degree of protection



NEW

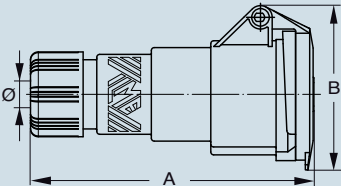
Number of poles	Frequency Hz	Voltage V	Earthing contact position h	Part No.	Colour	Part No.	Colour
2P+	50 and 60	100 - 130	4	PE 1643 PV		PE 3243 PV	
	50 and 60	200 - 250	6	PE 1663 PV		PE 3263 PV	
	50 and 60	380 - 415	9	PE 1693 PV		PE 3293 PV	
	50 and 60	480 - 500	7	PE 1673 PV		PE 3273 PV	
	50 and 60	ins. transformer	12	PE 16123 PV	A.V.	PE 32123 PV	A.V.
	> 300 - 500	> 50	2	PE 1623 PV		PE 3223 PV	
	d.c.	> 50 - 250	3	PE 1633 PV	A.V.	PE 3233 PV	A.V.
	d.c.	> 250	8	PE 1683 PV	A.V.	PE 3283 PV	A.V.
	50 and 60	100 - 130	4	PE 1644 PV		PE 3244 PV	
	50 and 60	200 - 250	9	PE 1694 PV		PE 3294 PV	
3P+	50 and 60	380 - 415	6	PE 1664 PV		PE 3264 PV	
	60	440 - 460	11	PE 16114 PV		PE 32114 PV	
	50 and 60	480 - 500	7	PE 1674 PV		PE 3274 PV	
	50 and 60	600 - 690	5	PE 1654 PV		PE 3254 PV	
	50	380	3	PE 1634 PV		PE 3234 PV	
	60	440	3	PE 1634 PV		PE 3234 PV	
	100 - 300	> 50	10	PE 16104 PV		PE 32104 PV	
	> 300 - 500	> 50	2	PE 1624 PV		PE 3224 PV	
	50 and 60	57/100 - 75/130	4	PE 1645 PV		PE 3245 PV	
	50 and 60	120/208 - 144/250	9	PE 1695 PV		PE 3295 PV	
3P+N+	50 and 60	200/346 - 240/415	6	PE 1665 PV		PE 3265 PV	
	50 and 60	277/480 - 288/500	7	PE 1675 PV		PE 3275 PV	
	50 and 60	347/600 - 400/690	5	PE 1655 PV		PE 3255 PV	
	60	250/440 - 265/460	11	PE 16115 PV		PE 32115 PV	
	50	220/380	3	PE 1635 PV		PE 3235 PV	
	60	250/440	3	PE 1635 PV		PE 3235 PV	
	> 300 - 500	> 50	2	PE 1625 PV		PE 3225 PV	
	50 and 60	57/100 - 75/130	4	PE 1645 PV		PE 3245 PV	
	50 and 60	120/208 - 144/250	9	PE 1695 PV		PE 3295 PV	
	50 and 60	200/346 - 240/415	6	PE 1665 PV		PE 3265 PV	

Legend

A.V. = Colour according to voltage
(*) Green may be used together with the colour of the operating range for frequencies above 60 Hz and up to a maximum of 500 Hz.

dimensions in mm

(16 / 32A) PE ... PV



PE...PV	A	B	ø min	ø max
16A 2P+	146	74.5	7	16
3P+	146	84.5	7	16
3P+N+	146	92.5	8	24
32A 2P+	163	102	8	24
3P+	163	102	8	24
3P+N+	163	105	8	24

dimensions shown are not binding
and may be changed without notice

PEW...PV coupler socket-outlets, low voltage from over 50V up to 690V



16A
IP66/IP67 degrees of protection



NEW

32A
IP66/IP67 degrees of protection



NEW

63A
IP67 degree of protection



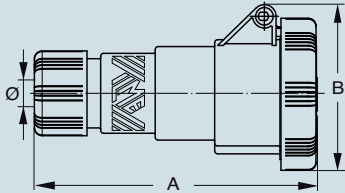
125A
IP67 degree of protection



Part No.	Colour	Part No.	Colour	Part No.	Colour	Part No.	Colour
PEW 1643 PV ☉	Yellow	PEW 3243 PV ☉	Yellow	PEW 6343 PV ☉	Yellow	PEW 12543 PV ☉	Yellow
PEW 1663 PV ☉	Blue	PEW 3263 PV ☉	Blue	PEW 6363 PV ☉	Blue	PEW 12563 PV ☉	Blue
PEW 1693 PV ☉	Red	PEW 3293 PV ☉	Red	PEW 6393 PV ☉	Red	PEW 12593 PV ☉	Red
PEW 1673 PV ☉	Black	PEW 3273 PV ☉	Black	PEW 6373 PV ☉	Black	PEW 12573 PV ☉	Black
PEW 16123 PV ☉	A.V.	PEW 32123 PV ☉	A.V.	PEW 63123 PV ☉	A.V.	PEW 125123 PV ☉	A.V.
PEW 1623 PV ☉	(*)	PEW 3223 PV ☉	(*)				
PEW 1633 PV ☉	A.V.	PEW 3233 PV	A.V.	PEW 6333 PV	A.V.	PEW 12533 PV	A.V.
PEW 1683 PV	A.V.	PEW 3283 PV	A.V.	PEW 6383 PV	A.V.	PEW 12583 PV	A.V.
PEW 1644 PV ☉	Yellow	PEW 3244 PV ☉	Yellow	PEW 6344 PV ☉	Yellow	PEW 12544 PV ☉	Yellow
PEW 1694 PV ☉	Blue	PEW 3294 PV ☉	Blue	PEW 6394 PV ☉	Blue	PEW 12594 PV ☉	Blue
PEW 1664 PV ☉	Red	PEW 3264 PV ☉	Red	PEW 6364 PV ☉	Red	PEW 12564 PV ☉	Red
PEW 16114 PV ☉	Black	PEW 32114 PV ☉	Black	PEW 63114 PV ☉	Black	PEW 125114 PV ☉	Black
PEW 1674 PV ☉	Black	PEW 3274 PV ☉	Black	PEW 6374 PV ☉	Black	PEW 12574 PV ☉	Black
PEW 1654 PV	Black	PEW 3254 PV	Black	PEW 6354 PV	Black	PEW 12554 PV	Black
PEW 1634 PV ☉	Red	PEW 3234 PV ☉	Red				
PEW 1634 PV ☉	Red	PEW 3234 PV ☉	Red				
PEW 16104 PV ☉	(*)	PEW 32104 PV ☉	(*)				
PEW 1624 PV ☉	(*)	PEW 3224 PV ☉	(*)				
PEW 1645 PV ☉	Yellow	PEW 3245 PV ☉	Yellow	PEW 6345 PV ☉	Yellow	PEW 12545 PV ☉	Yellow
PEW 1695 PV ☉	Blue	PEW 3295 PV ☉	Blue	PEW 6395 PV ☉	Blue	PEW 12595 PV ☉	Blue
PEW 1665 PV ☉	Red	PEW 3265 PV ☉	Red	PEW 6365 PV ☉	Red	PEW 12565 PV ☉	Red
PEW 1675 PV ☉	Black	PEW 3275 PV ☉	Black	PEW 6375 PV ☉	Black	PEW 12575 PV ☉	Black
PEW 1655 PV	Black	PEW 3255 PV	Black	PEW 6355 PV	Black	PEW 12555 PV	Black
PEW 16115 PV ☉	Red	PEW 32115 PV ☉	Red	PEW 63115 PV ☉	Red	PEW 125115 PV ☉	Red
PEW 1635 PV ☉	Red	PEW 3235 PV ☉	Red				
PEW 1635 PV ☉	Red	PEW 3235 PV ☉	Red				
PEW 1625 PV ☉	(*)	PEW 3225 PV ☉	(*)				

dimensions in mm

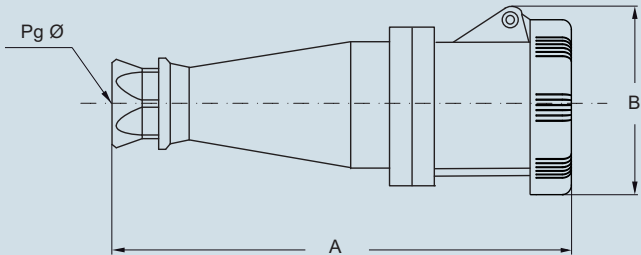
(16 / 32A) PEW ... PV



PEW...PV	A	B	Ø min	Ø max
16A 2P+⊕	145	77	7	16
3P+⊕	145	85	7	16
3P+N+⊕	145	93	8	24
32A 2P+⊕	162	97	8	24
3P+⊕	162	97	8	24
3P+N+⊕	162	105	8	24

dimensions in mm

(63 / 125A) PEW ... PV



PEW...PV	A	B	Pg Ø
63A 2P+⊕	277	108.5	36
3P+⊕	277	108.5	36
3P+N+⊕	277	108.5	36
125A 2P+⊕	324	120.5	2"gas
3P+⊕	324	120.5	2"gas
3P+N+⊕	324	120.5	2"gas

PHW...SV coupler plugs, low voltage from over 50V up to 690V, HEAVY DUTY



- Temperature range: from -40 °C to +100 °C
- Compliant with EN 60309-1 and -2
- Enclosure, insert and locking ring in insulating, thermoplastic, self-extinguishing material
- PHW...SV types (IP66/IP67), entry with cable gland colour coded according to the operating voltage, RAL 9005 black enclosure, locking ring with gasket colour coded according to the operating voltage
- On request SHPW version with phase inverter (3P+N+⊕, h6, 16A or 32A)
- Terminals with retained screws
- Stainless steel insert fixing screws
- Nickel-plated contacts as standard
- IP66/IP67 degrees of protection (EN 60529)

16A
IP66/IP67 degrees of protection



NEW

32A
IP66/IP67 degrees of protection

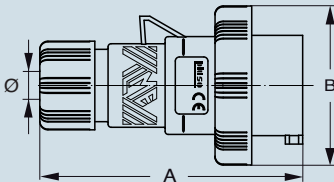


NEW

Number of poles	Frequency Hz	Voltage V	Earthing contact position h	Part No.	Colour	Part No.	Colour
2P+⊕	50 and 60	100 - 130	4	PHW 1643 SV		PHW 3243 SV	
	50 and 60	200 - 250	6	PHW 1663 SV		PHW 3263 SV	
	50 and 60	380 - 415	9	PHW 1693 SV		PHW 3293 SV	
3P+⊕	50 and 60	100 - 130	4	PHW 1644 SV		PHW 3244 SV	
	50 and 60	200 - 250	9	PHW 1694 SV		PHW 3294 SV	
	50 and 60	380 - 415	6	PHW 1664 SV		PHW 3264 SV	
3P+N+⊕	50 and 60	57/100 - 75/130	4	PHW 1645 SV		PHW 3245 SV	
	50 and 60	120/208 - 144/250	9	PHW 1695 SV		PHW 3295 SV	
	50 and 60	200/346 - 240/415	6	PHW 1665 SV		PHW 3265 SV	

dimensions in mm

(16 / 32A) PHW ... SV



PHW...SV	A	B	ø min	ø max
16A 2P+⊕	129	70	7	16
3P+⊕	129	77	7	16
3P+N+⊕	129	86	8	24
32A 2P+⊕	150	92	8	24
3P+⊕	150	92	8	24
3P+N+⊕	150	100	8	24

dimensions shown are not binding
and may be changed without notice

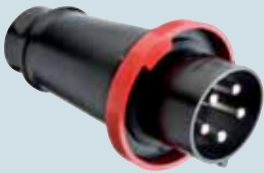


63A
IP66/IP67 degrees of protection



NEW

125A
IP66/IP67 degrees of protection

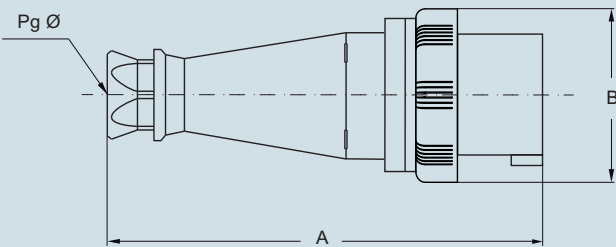


NEW

Part No.	Colour	Part No.	Colour
PHW 6343 SV		PHW 12543 SV	
PHW 6363 SV		PHW 12563 SV	
PHW 6393 SV		PHW 12593 SV	
PHW 6344 SV		PHW 12544 SV	
PHW 6394 SV		PHW 12594 SV	
PHW 6364 SV		PHW 12564 SV	
PHW 6345 SV		PHW 12545 SV	
PHW 6395 SV		PHW 12595 SV	
PHW 6365 SV		PHW 12565 SV	

dimensions in mm

(63 / 125A) PHW ... SV



PHW...SV		A	B	Pg ø
63A	2P+⊕	264.5	112	36
	3P+⊕	264.5	112	36
	3P+N+⊕	264.5	112	36
125A	2P+⊕	310	130	2"gas
	3P+⊕	310	130	2"gas
	3P+N+⊕	310	130	2"gas



- Temperature range: from -40 °C to +100 °C
- Compliant with EN 60309-1 and -2
- Enclosure, insert and locking ring in insulating, thermoplastic, self-extinguishing material
- PHW...PV types (IP66/IP67), RAL 9005 black enclosure, locking ring with gasket colour coded according to the operating voltage, entry with cable gland
- Terminals with retained screws
- Stainless steel insert fixing screws
- Nickel-plated contacts as standard
- IP66/IP67 degrees of protection (EN 60529)

16A
IP66/IP67 degrees of protection



NEW

32A
IP66/IP67 degrees of protection

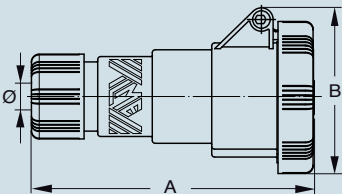


NEW

Number of poles	Frequency Hz	Voltage V	Earthing contact position h	Part No.	Colour	Part No.	Colour
2P+⊕	50 and 60	100 ÷ 130	4	PHW 1643 PV		PHW 3243 PV	
	50 and 60	200 ÷ 250	6	PHW 1663 PV		PHW 3263 PV	
	50 and 60	380 ÷ 415	9	PHW 1693 PV		PHW 3293 PV	
3P+⊕	50 and 60	100 ÷ 130	4	PHW 1644 PV		PHW 3244 PV	
	50 and 60	200 ÷ 250	9	PHW 1694 PV		PHW 3294 PV	
	50 and 60	380 ÷ 415	6	PHW 1664 PV		PHW 3264 PV	
3P+N+⊕	50 and 60	57/100 ÷ 75/130	4	PHW 1645 PV		PHW 3245 PV	
	50 and 60	120/208 ÷ 144/250	9	PHW 1695 PV		PHW 3295 PV	
	50 and 60	200/346 ÷ 240/415	6	PHW 1665 PV		PHW 3265 PV	

dimensions in mm

(16 / 32A) PHW ... PV



PHW...PV	A	B	ø min	ø max
16A 2P+⊕	145	77	7	16
3P+⊕	145	85	7	16
3P+N+⊕	145	93	8	24
32A 2P+⊕	162	97	8	24
3P+⊕	162	97	8	24
3P+N+⊕	162	105	8	24

dimensions shown are not binding
and may be changed without notice



63A
IP66/IP67 degrees of protection



NEW

125A
IP66/IP67 degrees of protection

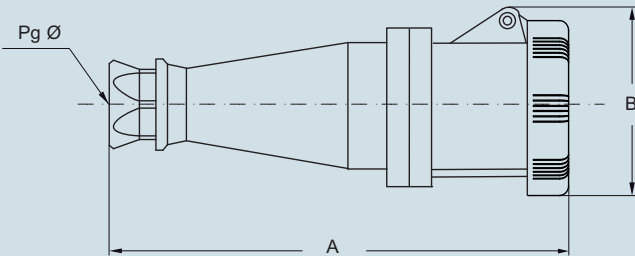


NEW

Part No.	Colour	Part No.	Colour
PHW 6343 PV		PHW 12543 PV	
PHW 6363 PV		PHW 12563 PV	
PHW 6393 PV		PHW 12593 PV	
PHW 6344 PV		PHW 12544 PV	
PHW 6394 PV		PHW 12594 PV	
PHW 6364 PV		PHW 12564 PV	
PHW 6345 PV		PHW 12545 PV	
PHW 6395 PV		PHW 12595 PV	
PHW 6365 PV		PHW 12565 PV	

dimensions in mm

(63 / 125A) PHW ... PV



PHW...PV	A	B	Pg ø
63A 2P+⊕	277	108.5	36
3P+⊕	277	108.5	36
3P+N+⊕	277	108.5	36
125A 2P+⊕	324	120.5	2"gas
3P+⊕	324	120.5	2"gas
3P+N+⊕	324	120.5	2"gas

PE...SA angled coupler plugs, low voltage from over 50V up to 690V



- Compliant with EN 60309-1 and -2
 - Enclosure, insert and locking ring in insulating, thermoplastic, self-extinguishing material
 - Cable anchoring collar incorporated in the insert
 - Entry with cable gland
 - PE...SA types (IP44), enclosure colour coded according to the operating voltage
 - PEW...SA types (IP67), RAL 7035 grey enclosure, locking ring with gasket colour coded according to the operating voltage
 - Terminals with retained screws
 - Nickel-plated contacts, available on request for 16A and 32A.
- For the code of products with nickel-plated contacts (socket holes, plug pins), add "N" to the pre-code of the corresponding standard product code; for example: PE becomes PEN and PEW becomes PEWN.
- IP44 and IP67 degrees of protection (EN 60529)
 - with Italian Quality Mark

16A
IP44 degree of protection



32A
IP44 degree of protection



Number of poles	Frequency Hz	Voltage V	Earthing contact position h	Part No.	Colour	Part No.	Colour
2P+⊕	50 and 60	100 - 130	4	PE 1643 SA		PE 3243 SA	
	50 and 60	200 - 250	6	PE 1663 SA		PE 3263 SA	
	50 and 60	380 - 415	9	PE 1693 SA		PE 3293 SA	
	50 and 60	480 - 500	7	PE 1673 SA		PE 3273 SA	
	50 and 60	ins. transformer	12	PE 16123 SA	A.V.	PE 32123 SA	A.V.
	> 300 - 500	> 50	2	PE 1623 SA		PE 3223 SA	
	d.c.	> 50 - 250	3	PE 1633 SA	A.V.	PE 3233 SA	A.V.
	d.c.	> 250	8	PE 1683 SA	A.V.	PE 3283 SA	A.V.
	50 and 60	100 - 130	4	PE 1644 SA		PE 3244 SA	
	50 and 60	200 - 250	9	PE 1694 SA		PE 3294 SA	
3P+⊕	50 and 60	380 - 415	6	PE 1664 SA		PE 3264 SA	
	60	440 - 460	11	PE 16114 SA		PE 32114 SA	
	50 and 60	480 - 500	7	PE 1674 SA		PE 3274 SA	
	50 and 60	600 - 690	5	PE 1654 SA		PE 3254 SA	
	50	380	3	PE 1634 SA		PE 3234 SA	
	60	440	3	PE 1634 SA		PE 3234 SA	
	100 - 300	> 50	10	PE 16104 SA		PE 32104 SA	
	> 300 - 500	> 50	2	PE 1624 SA		PE 3224 SA	
	50 and 60	57/100 - 75/130	4	PE 1645 SA		PE 3245 SA	
	50 and 60	120/208 - 144/250	9	PE 1695 SA		PE 3295 SA	
3P+N+⊕	50 and 60	200/346 - 240/415	6	PE 1665 SA		PE 3265 SA	
	50 and 60	277/480 - 288/500	7	PE 1675 SA		PE 3275 SA	
	50 and 60	347/600 - 400/690	5	PE 1655 SA		PE 3255 SA	
	60	250/440 - 265/460	11	PE 16115 SA		PE 32115 SA	
	50	220/380	3	PE 1635 SA		PE 3235 SA	
	60	250/440	3	PE 1635 SA		PE 3235 SA	
	> 300 - 500	> 50	2	PE 1625 SA		PE 3225 SA	
	50 and 60	57/100 - 75/130	4	PE 1645 SA		PE 3245 SA	
	50 and 60	120/208 - 144/250	9	PE 1695 SA		PE 3295 SA	
	50 and 60	200/346 - 240/415	6	PE 1665 SA		PE 3265 SA	

Legend

A.V. = Colour according to voltage
(*) Green may be used together with the colour of the operating range for frequencies above 60 Hz and up to a maximum of 500 Hz.

Accessories for IP67 plugs (optional)



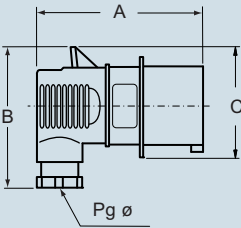
Loose protective cover

Size	Polarity	Part No.
16A	2P+⊕	PEW 163 CS
16A	3P+⊕	PEW 164 CS
16A	3P+N+⊕	PEW 165 CS
32A	2/3P+⊕	PEW 324 CS
32A	3P+N+⊕	PEW 325 CS

dimensions shown are not binding
and may be changed without notice

dimensions in mm

(16 / 32A) PE ... SA



PE...SA	A	B	C	Pg ø
16A	2P+⊕	100	77	59
	3P+⊕	100	84	68
	3P+N+⊕	106	91	77
32A	2P+⊕	131	100	82
	3P+⊕	131	100	82
	3P+N+⊕	131	107	93



16A
IP67 degree of protection



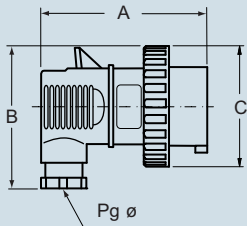
32A
IP67 degree of protection



Part No.	Colour	Part No.	Colour
PEW 1643 SA ☉		PEW 3243 SA ☉	
PEW 1663 SA ☉		PEW 3263 SA ☉	
PEW 1693 SA ☉		PEW 3293 SA ☉	
PEW 1673 SA ☉		PEW 3273 SA ☉	
PEW 16123 SA ☉		PEW 32123 SA ☉	
PEW 1623 SA ☉		PEW 3223 SA ☉	
PEW 1633 SA ☉		PEW 3233 SA ☉	
PEW 1683 SA ☉		PEW 3283 SA ☉	
PEW 1644 SA ☉		PEW 3244 SA ☉	
PEW 1694 SA ☉		PEW 3294 SA ☉	
PEW 1664 SA ☉		PEW 3264 SA ☉	
PEW 16114 SA ☉		PEW 32114 SA ☉	
PEW 1674 SA ☉		PEW 3274 SA ☉	
PEW 1654 SA ☉		PEW 3254 SA ☉	
PEW 1634 SA ☉		PEW 3234 SA ☉	
PEW 1634 SA ☉		PEW 3234 SA ☉	
PEW 16104 SA ☉		PEW 32104 SA ☉	
PEW 1624 SA ☉		PEW 3224 SA ☉	
PEW 1645 SA ☉		PEW 3245 SA ☉	
PEW 1695 SA ☉		PEW 3295 SA ☉	
PEW 1665 SA ☉		PEW 3265 SA ☉	
PEW 1675 SA ☉		PEW 3275 SA ☉	
PEW 1655 SA ☉		PEW 3255 SA ☉	
PEW 16115 SA ☉		PEW 32115 SA ☉	
PEW 1635 SA ☉		PEW 3235 SA ☉	
PEW 1635 SA ☉		PEW 3235 SA ☉	
PEW 1625 SA ☉		PEW 3225 SA ☉	

dimensions in mm

(16 / 32A) PEW ...SA



PEW...SA	A	B	C	Pg ø
16A 2P+☉	100	77	59	13.5
3P+☉	100	84	68	16
3P+N+☉	106	91	77	16
32A 2P+☉	131	100	82	21
3P+☉	131	100	82	21
3P+N+☉	131	107	93	21

PE...SM wall-mounting plugs, low voltage from over 50V up to 690V



- Compliant with EN 60309-1 and -2
- Enclosure, insert and locking ring in insulating, thermoplastic, self-extinguishing material
- PE...SM types (IP44), enclosure colour coded according to the operating voltage, top entry with threaded grommet (replaceable with cable gland)
- PEW...SM types (IP67), RAL 7035 grey enclosure, locking ring with gasket colour coded according to the operating voltage, top entry with cable gland
- Terminals with retained screws
- 63A, 125A: with pilot contact
- Nickel-plated contacts, available on request for 16A and 32A (standard on 63A and 125A). For the code of products with nickel-plated contacts (socket holes, plug pins), add "N" to the pre-code of the corresponding standard product code; for example: PE becomes PEN and PEW becomes PEWN.
- 125A: with terminal block for the anchoring of incoming cables, already connected to socket
- IP44 and IP67 degrees of protection (EN 60529)
- with Italian Quality Mark

16A
IP44 degree of protection



32A
IP44 degree of protection



Number of poles	Frequency Hz	Voltage V	Earthing contact position h	Part No.	Colour	Part No.	Colour
2P+⊕	50 and 60	100 - 130	4	PE 1643 SM		PE 3243 SM	
	50 and 60	200 - 250	6	PE 1663 SM		PE 3263 SM	
	50 and 60	380 - 415	9	PE 1693 SM		PE 3293 SM	
	50 and 60	480 - 500	7	PE 1673 SM		PE 3273 SM	
	50 and 60	ins. transformer	12	PE 16123 SM	A.V.	PE 32123 SM	A.V.
	> 300 - 500	> 50	2	PE 1623 SM		PE 3223 SM	
	d.c.	> 50 - 250	3	PE 1633 SM	A.V.	PE 3233 SM	A.V.
	d.c.	> 250	8	PE 1683 SM	A.V.	PE 3283 SM	A.V.
3P+⊕	50 and 60	100 - 130	4	PE 1644 SM		PE 3244 SM	
	50 and 60	200 - 250	9	PE 1694 SM		PE 3294 SM	
	50 and 60	380 - 415	6	PE 1664 SM		PE 3264 SM	
	60	440 - 460	11	PE 16114 SM		PE 32114 SM	
	50 and 60	480 - 500	7	PE 1674 SM		PE 3274 SM	
	50 and 60	600 - 690	5	PE 1654 SM		PE 3254 SM	
	50	380	3	PE 1634 SM		PE 3234 SM	
	60	440	3	PE 1634 SM		PE 3234 SM	
	100 - 300	> 50	10	PE 16104 SM		PE 32104 SM	
	> 300 - 500	> 50	2	PE 1624 SM		PE 3224 SM	
3P+N+⊕	50 and 60	57/100 - 75/130	4	PE 1645 SM		PE 3245 SM	
	50 and 60	120/208 - 144/250	9	PE 1695 SM		PE 3295 SM	
	50 and 60	200/346 - 240/415	6	PE 1665 SM		PE 3265 SM	
	50 and 60	277/480 - 288/500	7	PE 1675 SM		PE 3275 SM	
	50 and 60	347/600 - 400/690	5	PE 1655 SM		PE 3255 SM	
	60	250/440 - 265/460	11	PE 16115 SM		PE 32115 SM	
	50	220/380	3	PE 1635 SM		PE 3235 SM	
	60	250/440	3	PE 1635 SM		PE 3235 SM	
	> 300 - 500	> 50	2	PE 1625 SM		PE 3225 SM	

Legend

A.V. = Colour according to voltage
(*) Green may be used together with the colour of the operating range for frequencies above 60 Hz and up to a maximum of 500 Hz.

Accessories for IP67 plugs (optional)



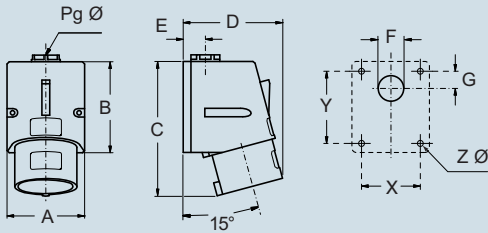
Loose protective cover

Size	Polarity	Part No.
16A	2P+⊕	PEW 163 CS
16A	3P+⊕	PEW 164 CS
16A	3P+N+⊕	PEW 165 CS
32A	2/3P+⊕	PEW 324 CS
32A	3P+N+⊕	PEW 325 CS
63A	All	PEW 63 CS
125A	All	PEW 125 CS

dimensions shown are not binding
and may be changed without notice

dimensions in mm

(16 / 32A) PE ... SM



PE...SM	A	B	C	D	E	F	G	X	Y	Z ø	Pg ø
16A 2P+⊕	70	82	115	75	20	23	16	53	65	4.5	16
3P+⊕	70	82	117	75	20	23	16	53	65	4.5	16
3P+N+⊕	70	82	121	90	20	23	16	53	65	4.5	16
32A 2P+⊕	86	104	145	95	24	29	17	61	79	6.5	21
3P+⊕	86	104	145	95	24	29	17	61	79	6.5	21
3P+N+⊕	86	104	147	95	24	29	17	61	79	6.5	21

PEW...SM wall-mounting plugs, low voltage from over 50V up to 690V



16A
IP67 degree of protection



32A
IP67 degree of protection



63A
IP67 degree of protection



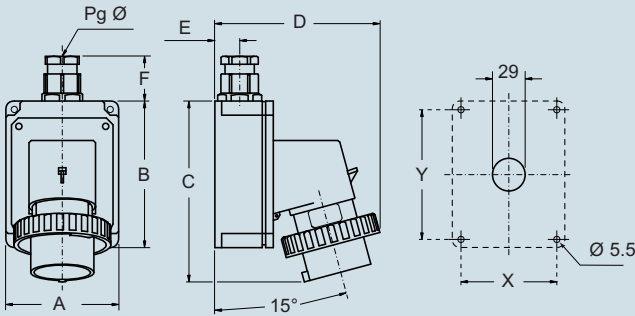
125A
IP67 degree of protection



Part No.	Colour	Part No.	Colour	Part No.	Colour	Part No.	Colour
PEW 1643 SM ☉	Yellow	PEW 3243 SM ☉	Yellow	PEW 6343 SM ☉	Yellow	PEW 12543 SM ☉	Yellow
PEW 1663 SM ☉	Blue	PEW 3263 SM ☉	Blue	PEW 6363 SM ☉	Blue	PEW 12563 SM ☉	Blue
PEW 1693 SM ☉	Red	PEW 3293 SM ☉	Red	PEW 6393 SM ☉	Red	PEW 12593 SM ☉	Red
PEW 1673 SM ☉	Black	PEW 3273 SM ☉	Black	PEW 6373 SM ☉	Black	PEW 12573 SM ☉	Black
PEW 16123 SM ☉	A.V.	PEW 32123 SM ☉	A.V.	PEW 63123 SM ☉	A.V.	PEW 125123 SM ☉	A.V.
PEW 1623 SM ☉	(*)	PEW 3223 SM ☉	(*)				
PEW 1633 SM ☉	A.V.	PEW 3233 SM	A.V.	PEW 6333 SM	A.V.	PEW 12533 SM	A.V.
PEW 1683 SM	A.V.	PEW 3283 SM	A.V.	PEW 6383 SM	A.V.	PEW 12583 SM	A.V.
PEW 1644 SM ☉	Yellow	PEW 3244 SM ☉	Yellow	PEW 6344 SM ☉	Yellow	PEW 12544 SM ☉	Yellow
PEW 1694 SM ☉	Blue	PEW 3294 SM ☉	Blue	PEW 6394 SM ☉	Blue	PEW 12594 SM ☉	Blue
PEW 1664 SM ☉	Red	PEW 3264 SM ☉	Red	PEW 6364 SM ☉	Red	PEW 12564 SM ☉	Red
PEW 16114 SM ☉	Black	PEW 32114 SM ☉	Black	PEW 63114 SM ☉	Black	PEW 125114 SM ☉	Black
PEW 1674 SM ☉	Black	PEW 3274 SM ☉	Black	PEW 6374 SM ☉	Black	PEW 12574 SM ☉	Black
PEW 1654 SM	Black	PEW 3254 SM	Black	PEW 6354 SM	Black	PEW 12554 SM	Black
PEW 1634 SM ☉	Red	PEW 3234 SM ☉	Red				
PEW 1634 SM ☉	Red	PEW 3234 SM ☉	Red				
PEW 16104 SM ☉	(*)	PEW 32104 SM ☉	(*)				
PEW 1624 SM ☉	(*)	PEW 3224 SM ☉	(*)				
PEW 1645 SM ☉	Yellow	PEW 3245 SM ☉	Yellow	PEW 6345 SM ☉	Yellow	PEW 12545 SM ☉	Yellow
PEW 1695 SM ☉	Blue	PEW 3295 SM ☉	Blue	PEW 6395 SM ☉	Blue	PEW 12595 SM ☉	Blue
PEW 1665 SM ☉	Red	PEW 3265 SM ☉	Red	PEW 6365 SM ☉	Red	PEW 12565 SM ☉	Red
PEW 1675 SM ☉	Black	PEW 3275 SM ☉	Black	PEW 6375 SM ☉	Black	PEW 12575 SM ☉	Black
PEW 1655 SM	Black	PEW 3255 SM	Black	PEW 6355 SM	Black	PEW 12555 SM	Black
PEW 16115 SM ☉	Red	PEW 32115 SM ☉	Red	PEW 63115 SM ☉	Red	PEW 125115 SM ☉	Red
PEW 1635 SM ☉	Red	PEW 3235 SM ☉	Red				
PEW 1635 SM ☉	Red	PEW 3235 SM ☉	Red				
PEW 1625 SM ☉	(*)	PEW 3225 SM ☉	(*)				

dimensions in mm

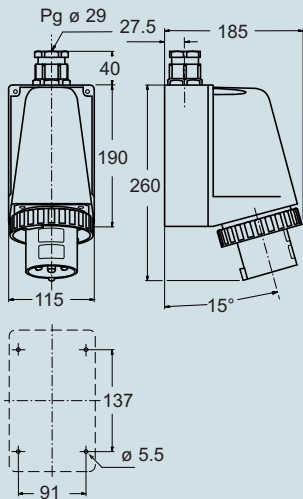
(16 / 32A) PEW ... SM



PEW...SM	A	B	C	D	E	F	X	Y	Pg ø
16A 2P+☉	75	115	144	126	19	35	65	105	16
3P+☉	75	115	144	134	19	35	65	105	16
3P+N+☉	100	130	164	145	22	42	85	115	21
32A 2P+☉	100	130	178	154	22	42	85	115	21
3P+☉	100	130	178	154	22	42	85	115	21
3P+N+☉	100	130	178	160	22	42	85	115	21

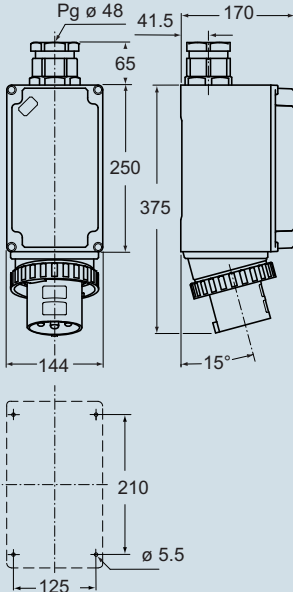
dimensions in mm

(63A) PEW ... SM



dimensions in mm

(125A) PEW ... SM



PE...PP wall-mounting socket-outlets, low voltage from over 50V up to 690V



- Compliant with EN 60309-1 and -2
- Enclosure, insert and spring lid in insulating, thermoplastic, self-extinguishing material
- RAL 7035 grey enclosure, spring lid colour coded according to the operating voltage
- PE...PP types (IP44), spring lid, entry with threaded grommet (replaceable with a cable gland)
- PEW...PP types (IP67), spring lid with locking ring and gasket, entry with cable gland
- Terminals with retained screws
- 63A, 125A: with pilot contact
- Nickel-plated contacts, available on request for 16A and 32A (standard on 63A and 125A). For the code of products with nickel-plated contacts (socket holes, plug pins), add "N" to the pre-code of the corresponding standard product code; for example: PE becomes PEN and PEW becomes PEWN.
- 125A: with terminal block for the anchoring of incoming cables, already connected to socket
- IP44 and IP67 degrees of protection (EN 60529)
- with Italian Quality Mark

16A
IP44 degree of protection



32A
IP44 degree of protection



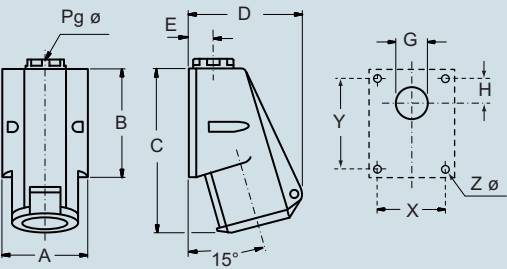
Number of poles	Frequency Hz	Voltage V	Earthing contact position h	Part No.	Colour	Part No.	Colour
2P+⊕	50 and 60	100 - 130	4	PE 1643 PP		PE 3243 PP	
	50 and 60	200 - 250	6	PE 1663 PP		PE 3263 PP	
	50 and 60	380 - 415	9	PE 1693 PP		PE 3293 PP	
	50 and 60	480 - 500	7	PE 1673 PP		PE 3273 PP	
	50 and 60	ins. transformer	12	PE 16123 PP		PE 32123 PP	
	> 300 - 500	> 50	2	PE 1623 PP		PE 3223 PP	
	d.c.	> 50 - 250	3	PE 1633 PP		PE 3233 PP	
	d.c.	> 250	8	PE 1683 PP		PE 3283 PP	
3P+⊕	50 and 60	100 - 130	4	PE 1644 PP		PE 3244 PP	
	50 and 60	200 - 250	9	PE 1694 PP		PE 3294 PP	
	50 and 60	380 - 415	6	PE 1664 PP		PE 3264 PP	
	60	440 - 460	11	PE 16114 PP		PE 32114 PP	
	50 and 60	480 - 500	7	PE 1674 PP		PE 3274 PP	
	50 and 60	600 - 690	5	PE 1654 PP		PE 3254 PP	
	50	380	3	PE 1634 PP		PE 3234 PP	
	60	440	3	PE 1634 PP		PE 3234 PP	
	100 - 300	> 50	10	PE 16104 PP		PE 32104 PP	
	> 300 - 500	> 50	2	PE 1624 PP		PE 3224 PP	
3P+N+⊕	50 and 60	57/100 - 75/130	4	PE 1645 PP		PE 3245 PP	
	50 and 60	120/208 - 144/250	9	PE 1695 PP		PE 3295 PP	
	50 and 60	200/346 - 240/415	6	PE 1665 PP		PE 3265 PP	
	50 and 60	277/480 - 288/500	7	PE 1675 PP		PE 3275 PP	
	50 and 60	347/600 - 400/690	5	PE 1655 PP		PE 3255 PP	
	60	250/400 - 265/460	11	PE 16115 PP		PE 32115 PP	
	50	220/380	3	PE 1635 PP		PE 3235 PP	
	60	250/440	3	PE 1635 PP		PE 3235 PP	
	> 300 - 500	> 50	2	PE 1625 PP		PE 3225 PP	

Legend

A.V. = Colour according to voltage
(*) Green may be used together with the colour of the operating range for frequencies above 60 Hz and up to a maximum of 500 Hz.

dimensions in mm

(16 / 32A) PE ... PP



PE ... PP	A	B	C	D	E	G	H	X	Y	Pg ø	Z ø
16A 2P+⊕	70	82	126	92	20	Ø22	16	53	65	16	4.5
3P+⊕	70	82	126	92	20	Ø22	16	53	65	16	4.5
3P+N+⊕	70	82	126	99	13	Ø22	16	53	65	16	4.5
32A 2P+⊕	86	104	159	110	24	Ø28	17	61	79	21	6.5
3P+⊕	86	104	159	110	24	Ø28	17	61	79	21	6.5
3P+N+⊕	86	104	159	110	24	Ø28	17	61	79	21	6.5

dimensions shown are not binding
and may be changed without notice

PEW...PP wall-mounting socket-outlets, low voltage from over 50V up to 690V



16A
IP67 degree of protection



32A
IP67 degree of protection



63A
IP67 degree of protection



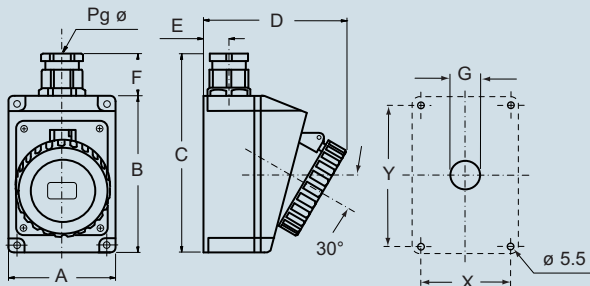
125A
IP67 degree of protection



Part No.	Colour	Part No.	Colour	Part No.	Colour	Part No.	Colour
PEW 1643 PP ☉		PEW 3243 PP ☉		PEW 6343 PP ☉		PEW 12543 PP ☉	
PEW 1663 PP ☉		PEW 3263 PP ☉		PEW 6363 PP ☉		PEW 12563 PP ☉	
PEW 1693 PP ☉		PEW 3293 PP ☉		PEW 6393 PP ☉		PEW 12593 PP ☉	
PEW 1673 PP ☉		PEW 3273 PP ☉		PEW 6373 PP ☉		PEW 12573 PP ☉	
PEW 16123 PP ☉		PEW 32123 PP ☉		PEW 63123 PP ☉		PEW 125123 PP ☉	
PEW 1623 PP ☉		PEW 3223 PP ☉					
PEW 1633 PP ☉		PEW 3233 PP		PEW 6333 PP		PEW 12533 PP	
PEW 1683 PP		PEW 3283 PP		PEW 6383 PP		PEW 12583 PP	
PEW 1644 PP ☉		PEW 3244 PP ☉		PEW 6344 PP ☉		PEW 12544 PP ☉	
PEW 1694 PP ☉		PEW 3294 PP ☉		PEW 6394 PP ☉		PEW 12594 PP ☉	
PEW 1664 PP ☉		PEW 3264 PP ☉		PEW 6364 PP ☉		PEW 12564 PP ☉	
PEW 16114 PP ☉		PEW 32114 PP ☉		PEW 63114 PP ☉		PEW 125114 PP ☉	
PEW 1674 PP ☉		PEW 3274 PP ☉		PEW 6374 PP ☉		PEW 12574 PP ☉	
PEW 1654 PP		PEW 3254 PP		PEW 6354 PP		PEW 12554 PP	
PEW 1634 PP ☉		PEW 3234 PP ☉					
PEW 1634 PP ☉		PEW 3234 PP ☉					
PEW 16104 PP ☉		PEW 32104 PP ☉					
PEW 1624 PP ☉		PEW 3224 PP ☉					
PEW 1645 PP ☉		PEW 3245 PP ☉		PEW 6345 PP ☉		PEW 12545 PP ☉	
PEW 1695 PP ☉		PEW 3295 PP ☉		PEW 6395 PP ☉		PEW 12595 PP ☉	
PEW 1665 PP ☉		PEW 3265 PP ☉		PEW 6365 PP ☉		PEW 12565 PP ☉	
PEW 1675 PP ☉		PEW 3275 PP ☉		PEW 6375 PP ☉		PEW 12575 PP ☉	
PEW 1655 PP		PEW 3255 PP		PEW 6355 PP		PEW 12555 PP	
PEW 16115 PP ☉		PEW 32115 PP ☉		PEW 63115 PP ☉		PEW 125115 PP ☉	
PEW 1635 PP ☉		PEW 3235 PP ☉					
PEW 1635 PP ☉		PEW 3235 PP ☉					
PEW 1625 PP ☉		PEW 3225 PP ☉					

dimensions in mm

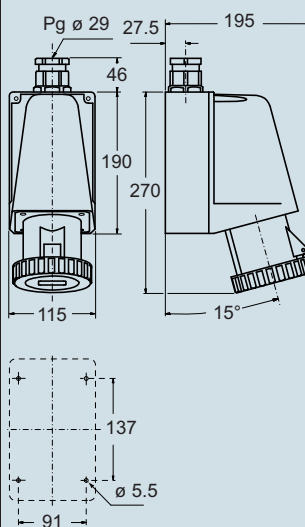
(16 / 32A) PEW ... PP



PEW ... PP	A	B	C	D	E	F	G	X	Y	Pg ø
16A 2P+☉	75	115	150	105	19	33	Ø22	65	105	16
3P+☉	75	115	150	108	19	33	Ø22	65	105	16
3P+N+☉	100	130	172	120	22	33	Ø22	85	115	21
32A 2P+☉	100	130	172	120	22	42	Ø28	85	115	21
3P+☉	100	130	172	120	22	42	Ø28	85	115	21
3P+N+☉	100	130	172	120	22	42	Ø28	85	115	21

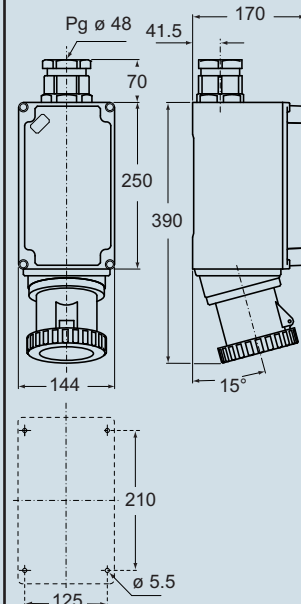
dimensions in mm

(63A) PEW ... PP



dimensions in mm

(125A) PEW ... PP



PE...SI flush-mounting plugs, low voltage from over 50V up to 690V



- Compliant with EN 60309-1 and -2
- Enclosure, insert and locking ring in insulating, thermoplastic, self-extinguishing material
- Flange with anti-ageing gasket
- PE...SI types (IP44), RAL 7035 grey enclosure, plug mouth colour coded according to the operating voltage
- PEW...SI (IP67) types, RAL 7035 grey enclosure, locking ring with gasket colour coded according to the operating voltage
- Terminals with retained screws
- 63A, 125A: with pilot contact
- Nickel-plated contacts, available on request for 16A and 32A (standard on 63A and 125A). For the code of products with nickel-plated contacts (socket holes, plug pins), add "N" to the pre-code of the corresponding standard product code; for example: PE becomes PEN and PEW becomes PEWN.
- IP44 and IP67 degrees of protection (EN 60529)
- with Italian Quality Mark

Legend

A.V. = Colour according to voltage
(*) Green may be used together with the colour of the operating range for frequencies above 60 Hz and up to a maximum of 500 Hz.

Number of poles	Frequency Hz	Voltage V	Earthing contact position h	Part No.	Colour	Part No.	Colour
2P+⊕	50 and 60	100 - 130	4	PE 1643 SI	A 52 x 60 mm	PE 3243 SI	B 77 x 85 mm
	50 and 60	200 - 250	6	PE 1663 SI		PE 3263 SI	
	50 and 60	380 - 415	9	PE 1693 SI		PE 3293 SI	
	50 and 60	480 - 500	7	PE 1673 SI		PE 3273 SI	
	50 and 60	ins. transformer	12	PE 16123 SI		PE 32123 SI	
	> 300 - 500	> 50	2	PE 1623 SI		PE 3223 SI	
	d.c.	> 50 - 250	3	PE 1633 SI		PE 3233 SI	
	d.c.	> 250	8	PE 1683 SI		PE 3283 SI	
3P+⊕	50 and 60	100 - 130	4	PE 1644 SI	A 52 x 60 mm	PE 3244 SI	B 77 x 85 mm
	50 and 60	200 - 250	9	PE 1694 SI		PE 3294 SI	
	50 and 60	380 - 415	6	PE 1664 SI		PE 3264 SI	
	60	440 - 460	11	PE 16114 SI		PE 32114 SI	
	50 and 60	480 - 500	7	PE 1674 SI		PE 3274 SI	
	50 and 60	600 - 690	5	PE 1654 SI		PE 3254 SI	
	50	380	3	PE 1634 SI		PE 3234 SI	
	60	440	3	PE 1634 SI		PE 3234 SI	
	100 - 300	> 50	10	PE 16104 SI		PE 32104 SI	
	> 300 - 500	> 50	2	PE 1624 SI		PE 3224 SI	
	50 and 60	57/100 - 75/130	4	PE 1645 SI	B 77 x 85 mm	PE 3245 SI	B 77 x 85 mm
	50 and 60	120/208 - 144/250	9	PE 1695 SI		PE 3295 SI	
	50 and 60	200/346 - 240/415	6	PE 1665 SI		PE 3265 SI	
	50 and 60	277/480 - 288/500	7	PE 1675 SI		PE 3275 SI	
	50 and 60	347/600 - 400/690	5	PE 1655 SI		PE 3255 SI	
	60	250/440 - 265/460	11	PE 16115 SI		PE 32115 SI	
	50	220/380	3	PE 1635 SI		PE 3235 SI	
	60	250/440	3	PE 1635 SI		PE 3235 SI	
	> 300 - 500	> 50	2	PE 1625 SI		PE 3225 SI	

A

52 x 60 mm

FM 2451 PIN

FM 3236 PIN

B

77 x 85 mm

A

52 x 60 mm with adapter FM 910 RI

FM 4272 PI

FM 3251 PI

FM 2451 PI

FM 3236 PI

dimensions shown are not binding and may be changed without notice

16A
IP44 degree of protection

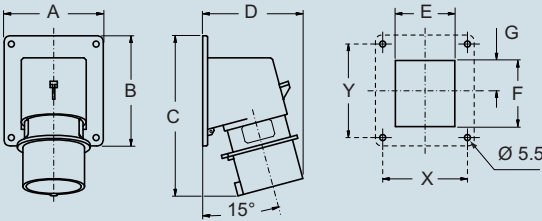


32A
IP44 degree of protection



dimensions in mm

(16 / 32A) PE ... SI



PE...SI	A	B	C	D	E	F	G	X	Y
16A 2P+⊕	65	82	126	81	41	43	21.5	52	60
3P+⊕	65	82	126	81	47	43	21.5	52	60
3P+N+⊕	90	100	146	93	54	60	27.5	77	85
32A 2P+⊕	90	100	160	101	55	60	27.5	77	85
3P+⊕	90	100	160	101	55	60	27.5	77	85
3P+N+⊕	90	100	160	106	62	60	27.5	77	85

PEW...SI flush-mounting plugs, low voltage from over 50V up to 690V



16A
IP67 degree of protection



32A
IP67 degree of protection



63A
IP67 degree of protection



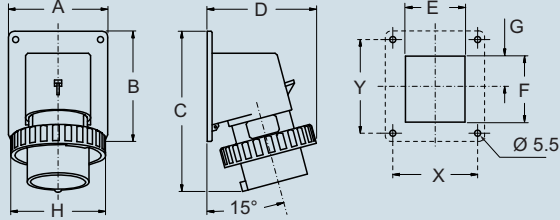
125A
IP67 degree of protection



Part No.	Colour	Part No.	Colour	Part No.	Colour	Part No.	Colour
PEW 1643 SI ☼	A 52 x 60 mm	PEW 3243 SI ☼	B 77 x 85 mm	PEW 6343 SI ☼	A.V.	PEW 12543 SI ☼	A.V.
PEW 1663 SI ☼		PEW 3263 SI ☼		PEW 6363 SI ☼		PEW 12563 SI ☼	
PEW 1693 SI ☼		PEW 3293 SI ☼		PEW 6393 SI ☼		PEW 12593 SI ☼	
PEW 1673 SI ☼		PEW 3273 SI ☼		PEW 6373 SI ☼		PEW 12573 SI ☼	
PEW 16123 SI ☼		PEW 32123 SI ☼		PEW 63123 SI ☼		PEW 125123 SI ☼	
PEW 1623 SI ☼		PEW 3223 SI ☼					
PEW 1633 SI ☼		PEW 3233 SI ☼		PEW 6333 SI		PEW 12533 SI	
PEW 1683 SI		PEW 3283 SI		PEW 6383 SI		PEW 12583 SI	
PEW 1644 SI ☼	A 52 x 60 mm	PEW 3244 SI ☼	B 77 x 85 mm	PEW 6344 SI ☼	A.V.	PEW 12544 SI ☼	A.V.
PEW 1694 SI ☼		PEW 3294 SI ☼		PEW 6394 SI ☼		PEW 12594 SI ☼	
PEW 1664 SI ☼		PEW 3264 SI ☼		PEW 6364 SI ☼		PEW 12564 SI ☼	
PEW 16114 SI ☼		PEW 32114 SI ☼		PEW 63114 SI ☼		PEW 125114 SI ☼	
PEW 1674 SI ☼		PEW 3274 SI ☼		PEW 6374 SI ☼		PEW 12574 SI ☼	
PEW 1654 SI		PEW 3254 SI		PEW 6354 SI		PEW 12554 SI	
PEW 1634 SI ☼		PEW 3234 SI ☼					
PEW 1634 SI ☼		PEW 3234 SI ☼					
PEW 16104 SI ☼		PEW 32104 SI ☼					
PEW 1624 SI ☼		PEW 3224 SI ☼					
PEW 1645 SI ☼	B 77 x 85 mm	PEW 3245 SI ☼	B 77 x 85 mm	PEW 6345 SI ☼	A.V.	PEW 12545 SI ☼	A.V.
PEW 1695 SI ☼		PEW 3295 SI ☼		PEW 6395 SI ☼		PEW 12595 SI ☼	
PEW 1665 SI ☼		PEW 3265 SI ☼		PEW 6365 SI ☼		PEW 12565 SI ☼	
PEW 1675 SI ☼		PEW 3275 SI ☼		PEW 6375 SI ☼		PEW 12575 SI ☼	
PEW 1655 SI		PEW 3255 SI		PEW 6355 SI		PEW 12555 SI	
PEW 16115 SI ☼		PEW 32115 SI ☼		PEW 63115 SI ☼		PEW 125115 SI ☼	
PEW 1635 SI ☼		PEW 3235 SI ☼					
PEW 1635 SI ☼		PEW 3235 SI ☼					
PEW 1625 SI ☼		PEW 3225 SI ☼					

dimensions in mm

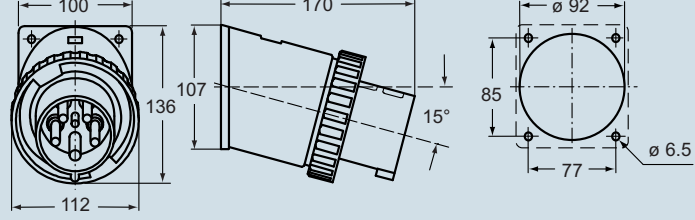
(16 / 32A) PEW ... SI



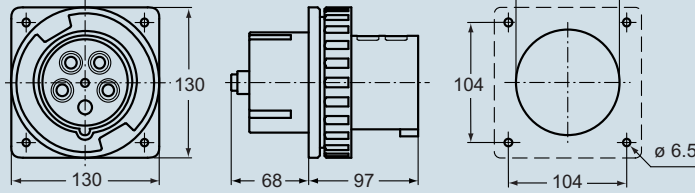
PEW...SI	A	B	C	D	E	F	G	H	X	Y
16A 2P+⊕	65	82	126	81	41	43	21.5	70	52	60
3P+⊕	65	82	126	81	47	43	24.5	78	52	60
3P+N+⊕	90	100	146	93	54	60	27.5	86	77	85
32A 2P+⊕	90	100	160	101	55	60	27.5	92	77	85
3P+⊕	90	100	160	101	55	60	27.5	92	77	85
3P+N+⊕	90	100	160	101	62	60	27.5	100	77	85

dimensions in mm

(63A) PEW ... SI



(125A) PEW ... SI



Accessories for IP67 plugs (optional)



Loose protective cover

Size	Polarity	Part No.
16A	2P+⊕	PEW 163 CS
16A	3P+⊕	PEW 164 CS
16A	3P+N+⊕	PEW 165 CS
32A	2/3P+⊕	PEW 324 CS
32A	3P+N+⊕	PEW 325 CS
63A	All	PEW 63 CS
125A	All	PEW 125 CS

PE...PI flush-mounting inclined socket-outlets, low voltage from over 50V up to 690V



- Compliant with EN 60309-1 and -2
- Enclosure, insert and spring lid in insulating, thermoplastic, self-extinguishing material
- RAL 7035 grey enclosure, spring lid colour coded according to the operating voltage
- Flange with anti-ageing gasket
- PE...PI types (IP44), spring lid
- PEW...PI types (IP67), spring lid with locking ring and gasket
- Terminals with retained screws
- 63A, 125A: with pilot contact
- Nickel-plated contacts, available on request for 16A and 32A (standard on 63A and 125A). For the code of products with nickel-plated contacts (socket holes, plug pins), add "N" to the pre-code of the corresponding standard product code; for example: PE becomes PEN and PEW becomes PEWN.
- IP44 and IP67 degrees of protection (EN 60529)
- with Italian Quality Mark

Legend

A.V. = Colour according to voltage
(*) Green may be used together with the colour of the operating range for frequencies above 60 Hz and up to a maximum of 500 Hz.

Number of poles	Frequency Hz	Voltage V	Earthing contact position h	Part No.	Colour	Part No.	Colour
2P+⊕	50 and 60	100 - 130	4	PE 1643 PI	A 52 x 60 mm A.V. (*) A.V.	PE 3243 PI	B 77 x 85 mm A.V. (*) A.V.
	50 and 60	200 - 250	6	PE 1663 PI		PE 3263 PI	
	50 and 60	380 - 415	9	PE 1693 PI		PE 3293 PI	
	50 and 60	480 - 500	7	PE 1673 PI		PE 3273 PI	
	50 and 60	ins. transformer	12	PE 16123 PI		PE 32123 PI	
	> 300 - 500	> 50	2	PE 1623 PI		PE 3223 PI	
	d.c.	> 50 - 250	3	PE 1633 PI		PE 3233 PI	
	d.c.	> 250	8	PE 1683 PI		PE 3283 PI	
3P+⊕	50 and 60	100 - 130	4	PE 1644 PI	A 52 x 60 mm A.V. (*) A.V.	PE 3244 PI	B 77 x 85 mm A.V. (*) A.V.
	50 and 60	200 - 250	9	PE 1694 PI		PE 3294 PI	
	50 and 60	380 - 415	6	PE 1664 PI		PE 3264 PI	
	60	440 - 460	11	PE 16114 PI		PE 32114 PI	
	50 and 60	480 - 500	7	PE 1674 PI		PE 3274 PI	
	50 and 60	600 - 690	5	PE 1654 PI		PE 3254 PI	
	50	380	3	PE 1634 PI		PE 3234 PI	
	60	440	3	PE 1634 PI		PE 3234 PI	
	100 - 300	> 50	10	PE 16104 PI		PE 32104 PI	
	> 300 - 500	> 50	2	PE 1624 PI		PE 3224 PI	
3P+N+⊕	50 and 60	57/100 - 75/130	4	PE 1645 PI	B 77 x 85 mm A.V. (*) A.V.	PE 3245 PI	B 77 x 85 mm A.V. (*) A.V.
	50 and 60	120/208 - 144/250	9	PE 1695 PI		PE 3295 PI	
	50 and 60	200/346 - 240/415	6	PE 1665 PI		PE 3265 PI	
	50 and 60	277/480 - 288/500	7	PE 1675 PI		PE 3275 PI	
	50 and 60	347/600 - 400/690	5	PE 1655 PI		PE 3255 PI	
	60	250/440 - 265/460	11	PE 16115 PI		PE 32115 PI	
	50	220/380	3	PE 1635 PI		PE 3235 PI	
	60	250/440	3	PE 1635 PI		PE 3235 PI	
	> 300 - 500	> 50	2	PE 1625 PI		PE 3225 PI	

A 52 x 60 mm

FM 2451 PIN



FM 3236 PIN



B 77 x 85 mm

A 52 x 60 mm with adapter
FM 910 RI

FM 4272 PI



FM 3251 PI



FM 2451 PI



FM 3236 PI



- Type **A** sockets can be supplied on request with dimensions 77 x 85 mm, the Part No. varies from PI to PIF

16A
IP44 degree of protection

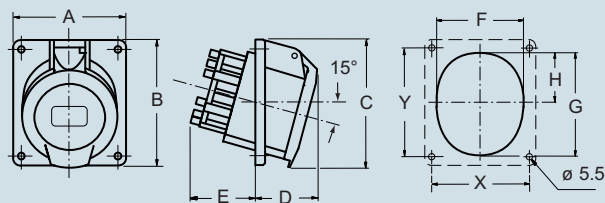


32A
IP44 degree of protection



dimensions in mm

(16 / 32A) PE ... PI



PE ... PI	A	B	C	D	E	F	G	H	X	Y
16A 2P+⊕	64	82	82	38	46	52	62	30	52	60
3P+⊕	64	82	82	42	47	57	65	28	52	60
3P+N+⊕	92	100	100	43	47	66	78	37.5	77	85
32A 2P+⊕	92	100	100	40	55	68	76	35.5	77	85
3P+⊕	92	100	100	40	55	68	76	35.5	77	85
3P+N+⊕	92	102	102	43	55	74	86	39.5	77	85

dimensions shown are not binding
and may be changed without notice

PEW...PI flush-mounting inclined socket-outlets, low voltage from over 50V up to 690V



16A
IP67 degree of protection



32A
IP67 degree of protection



63A
IP67 degree of protection



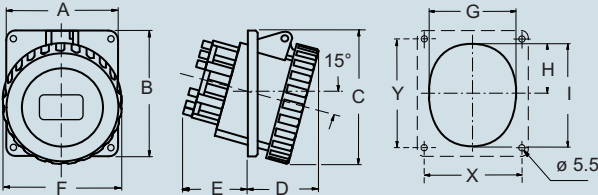
125A
IP67 degree of protection



Part No.	Colour	Part No.	Colour	Part No.	Colour	Part No.	Colour
PEW 1643 PI	A 52 x 60 mm	PEW 3243 PI	B 77 x 85 mm	PEW 6343 PI		PEW 12543 PI	
PEW 1663 PI		PEW 3263 PI		PEW 6363 PI		PEW 12563 PI	
PEW 1693 PI		PEW 3293 PI		PEW 6393 PI		PEW 12593 PI	
PEW 1673 PI		PEW 3273 PI		PEW 6373 PI		PEW 12573 PI	
PEW 16123 PI		PEW 32123 PI		PEW 63123 PI		PEW 125123 PI	
PEW 1623 PI		PEW 3223 PI					
PEW 1633 PI		PEW 3233 PI		PEW 6333 PI		PEW 12533 PI	
PEW 1683 PI		PEW 3283 PI		PEW 6383 PI		PEW 12583 PI	
PEW 1644 PI	A 52 x 60 mm	PEW 3244 PI	B 77 x 85 mm	PEW 6344 PI		PEW 12544 PI	
PEW 1694 PI		PEW 3294 PI		PEW 6394 PI		PEW 12594 PI	
PEW 1664 PI		PEW 3264 PI		PEW 6364 PI		PEW 12564 PI	
PEW 16114 PI		PEW 32114 PI		PEW 63114 PI		PEW 125114 PI	
PEW 1674 PI		PEW 3274 PI		PEW 6374 PI		PEW 12574 PI	
PEW 1654 PI		PEW 3254 PI		PEW 6354 PI		PEW 12554 PI	
PEW 1634 PI		PEW 3234 PI					
PEW 16104 PI		PEW 32104 PI					
PEW 1624 PI		PEW 3224 PI					
PEW 1645 PI	B 77 x 85 mm	PEW 3245 PI	B 77 x 85 mm	PEW 6345 PI		PEW 12545 PI	
PEW 1695 PI		PEW 3295 PI		PEW 6395 PI		PEW 12595 PI	
PEW 1665 PI		PEW 3265 PI		PEW 6365 PI		PEW 12565 PI	
PEW 1675 PI		PEW 3275 PI		PEW 6375 PI		PEW 12575 PI	
PEW 1655 PI		PEW 3255 PI		PEW 6355 PI		PEW 12555 PI	
PEW 16115 PI		PEW 32115 PI		PEW 63115 PI		PEW 125115 PI	
PEW 1635 PI		PEW 3235 PI					
PEW 1625 PI		PEW 3225 PI					

dimensions in mm

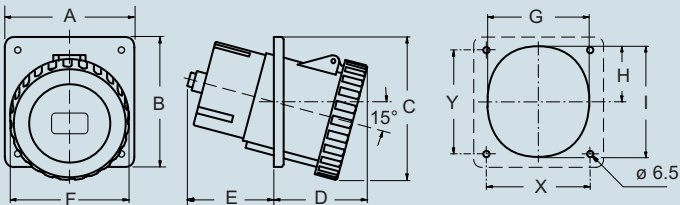
(16 / 32A) PEW ... PI



PEW ... PI	A	B	C	D	E	F	G	H	I	X	Y
16A 2P+⊕	65	82	83	48	35	70	50	29	58	52	60
3P+⊕	65	82	87	48	37	78	58	30	65	52	60
3P+N+⊕	90	100	102	50	38	86	66	35	75	77	85
32A 2P+⊕	90	100	116	50	50	92	68	37	78	77	85
3P+⊕	90	100	116	50	50	92	68	37	78	77	85
3P+N+⊕	90	100	118	50	50	100	73	42.5	86	77	85

dimensions in mm

(63 / 125A) PEW ... PI



PEW ... PI	A	B	C	D	E	F	G	H	I	X	Y
63A 2P+⊕	100	107	124	84	55	107	82	45	94	77	85
3P+⊕	100	107	124	84	55	107	82	45	94	77	85
3P+N+⊕	100	107	124	84	55	107	82	45	94	77	85
125A 2P+⊕	130	130	143	94	87	119	102	56	112	104	104
3P+⊕	130	130	143	94	87	119	102	56	112	104	104
3P+N+⊕	130	130	143	94	87	119	102	56	112	104	104

PE...PQ flush-mounting straight socket-outlets, low voltage from over 50V up to 690V



- Compliant with EN 60309-1 and -2
- Enclosure, insert and spring lid in insulating, thermoplastic, self-extinguishing material
- RAL 7035 grey enclosure, spring lid colour coded according to the operating voltage
- Flange with anti-ageing gasket
- PE...PQ types (IP44), spring lid
- PEW...PQ types (IP67), spring lid with locking ring and gasket
- Terminals with retained screws
- 63A, 125A: with pilot contact
- Nickel-plated contacts, available on request for 16A and 32A (standard on 63A and 125A). For the code of products with nickel-plated contacts (socket holes, plug pins), add "N" to the pre-code of the corresponding standard product code; for example: PE becomes PEN and PEW becomes PEWN.
- IP44 and IP67 degrees of protection (EN 60529)
- with Italian Quality Mark

Legend

A.V. = Colour according to voltage

(*) Green may be used together with the colour of the operating range for frequencies above 60 Hz and up to a maximum of 500 Hz.

Number of poles	Frequency Hz	Voltage V	Earthing contact position h	Part No.	Colour	Part No.	Colour
2P+⊕	50 and 60	100 - 130	4	PE 1643 PQ	 52 x 52 mm	PE 3243 PQ	 60 x 60 mm
	50 and 60	200 - 250	6	PE 1663 PQ		PE 3263 PQ	
	50 and 60	380 - 415	9	PE 1693 PQ		PE 3293 PQ	
	50 and 60	480 - 500	7	PE 1673 PQ		PE 3273 PQ	
	50 and 60	ins. transformer	12	PE 16123 PQ		PE 32123 PQ	
	> 300 - 500	> 50	2	PE 1623 PQ		PE 3223 PQ	
	d.c.	> 50 - 250	3	PE 1633 PQ		PE 3233 PQ	
	d.c.	> 250	8	PE 1683 PQ		PE 3283 PQ	
3P+⊕	50 and 60	100 - 130	4	PE 1644 PQ	 52 x 52 mm	PE 3244 PQ	 60 x 60 mm
	50 and 60	200 - 250	9	PE 1694 PQ		PE 3294 PQ	
	50 and 60	380 - 415	6	PE 1664 PQ		PE 3264 PQ	
	60	440 - 460	11	PE 16114 PQ		PE 32114 PQ	
	50 and 60	480 - 500	7	PE 1674 PQ		PE 3274 PQ	
	50 and 60	600 - 690	5	PE 1654 PQ		PE 3254 PQ	
	50	380	3	PE 1634 PQ		PE 3234 PQ	
	60	440	3	PE 1634 PQ		PE 3234 PQ	
	100 - 300	> 50	10	PE 16104 PQ		PE 32104 PQ	
	> 300 - 500	> 50	2	PE 1624 PQ		PE 3224 PQ	
3P+N+⊕	50 and 60	57/100 - 75/130	4	PE 1645 PQ	 60 x 60 mm	PE 3245 PQ	 60 x 60 mm
	50 and 60	120/208 - 144/250	9	PE 1695 PQ		PE 3295 PQ	
	50 and 60	200/346 - 240/415	6	PE 1665 PQ		PE 3265 PQ	
	50 and 60	277/480 - 288/500	7	PE 1675 PQ		PE 3275 PQ	
	50 and 60	347/600 - 400/690	5	PE 1655 PQ		PE 3255 PQ	
	60	250/440 - 265/460	11	PE 16115 PQ		PE 32115 PQ	
	50	220/380	3	PE 1635 PQ		PE 3235 PQ	
	60	250/440	3	PE 1635 PQ		PE 3235 PQ	
	> 300 - 500	> 50	2	PE 1625 PQ		PE 3225 PQ	

D 60 x 60 mm

- Type **C** sockets can be supplied on request with dimensions 60 x 60 mm, the Part No. varies from PQ to PQF

D 60 x 60 mm

C 52 x 52 mm with adapter FM 88 RQ

- Type **C** sockets can be supplied on request with dimensions 60 x 60 mm, the Part No. varies from PQ to PQF

16A
IP44 degree of protection

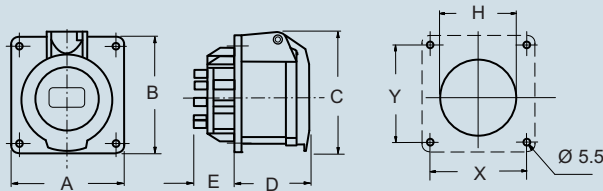


32A
IP44 degree of protection



dimensions in mm

(16 / 32A) PE ... PQ



PE...PQ	A	B	C	D	E	H	X	Y
16A 2P+⊕	65	65	71	52	27	60	52	52
3P+⊕	65	65	75	53	27	61.5	52	52
3P+N+⊕	80	80	86	53	27	70	60	60
32A 2P+⊕	80	80	87	62	28	68	60	60
3P+⊕	80	80	87	62	28	68	60	60
3P+N+⊕	80	80	92	62	28	73	60	60

dimensions shown are not binding and may be changed without notice

PEW...PQ flush-mounting straight socket-outlets, low voltage from over 50V up to 690V



16A
IP67 degree of protection



32A
IP67 degree of protection



63A
IP67 degree of protection



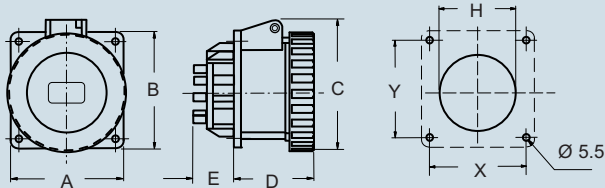
125A
IP67 degree of protection



Part No.	Colour	Part No.	Colour	Part No.	Colour	Part No.	Colour
PEW 1643 PQ ☼	 52 x 52 mm	PEW 3243 PQ ☼	 60 x 60 mm	PEW 6343 PQ ☼	 60 x 60 mm	PEW 12543 PQ ☼	 60 x 60 mm
PEW 1663 PQ ☼		PEW 3263 PQ ☼		PEW 6363 PQ ☼		PEW 12563 PQ ☼	
PEW 1693 PQ ☼		PEW 3293 PQ ☼		PEW 6393 PQ ☼		PEW 12593 PQ ☼	
PEW 1673 PQ ☼		PEW 3273 PQ ☼		PEW 6373 PQ ☼		PEW 12573 PQ ☼	
PEW 16123 PQ ☼		PEW 32123 PQ ☼		PEW 63123 PQ ☼		PEW 125123 PQ ☼	
PEW 1623 PQ ☼		PEW 3223 PQ ☼					
PEW 1633 PQ ☼		PEW 3233 PQ ☼		PEW 6333 PQ		PEW 12533 PQ	
PEW 1683 PQ		PEW 3283 PQ		PEW 6383 PQ		PEW 12583 PQ	
PEW 1644 PQ ☼	 52 x 52 mm	PEW 3244 PQ ☼	 60 x 60 mm	PEW 6344 PQ ☼	 60 x 60 mm	PEW 12544 PQ ☼	 60 x 60 mm
PEW 1694 PQ ☼		PEW 3294 PQ ☼		PEW 6394 PQ ☼		PEW 12594 PQ ☼	
PEW 1664 PQ ☼		PEW 3264 PQ ☼		PEW 6364 PQ ☼		PEW 12564 PQ ☼	
PEW 16114 PQ ☼		PEW 32114 PQ ☼		PEW 63114 PQ ☼		PEW 125114 PQ ☼	
PEW 1674 PQ ☼		PEW 3274 PQ ☼		PEW 6374 PQ ☼		PEW 12574 PQ ☼	
PEW 1654 PQ		PEW 3254 PQ		PEW 6354 PQ		PEW 12554 PQ	
PEW 1634 PQ ☼		PEW 3234 PQ ☼					
PEW 1634 PQ ☼		PEW 3234 PQ ☼					
PEW 16104 PQ ☼	 60 x 60 mm	PEW 32104 PQ ☼	 60 x 60 mm		 60 x 60 mm	PEW 12545 PQ ☼	 60 x 60 mm
PEW 1624 PQ ☼		PEW 3224 PQ ☼				PEW 12595 PQ ☼	
PEW 1645 PQ ☼		PEW 3245 PQ ☼		PEW 6345 PQ ☼		PEW 12565 PQ ☼	
PEW 1695 PQ ☼		PEW 3295 PQ ☼		PEW 6395 PQ ☼		PEW 12575 PQ ☼	
PEW 1665 PQ ☼		PEW 3265 PQ ☼		PEW 6365 PQ ☼		PEW 12555 PQ	
PEW 1675 PQ ☼		PEW 3275 PQ ☼		PEW 6375 PQ ☼		PEW 125115 PQ ☼	
PEW 1655 PQ		PEW 3255 PQ		PEW 6355 PQ			
PEW 16115 PQ ☼		PEW 32115 PQ ☼		PEW 63115 PQ ☼			
PEW 1635 PQ ☼	 60 x 60 mm	PEW 3235 PQ ☼	 60 x 60 mm		 60 x 60 mm		 60 x 60 mm
PEW 1635 PQ ☼		PEW 3235 PQ ☼					
PEW 1625 PQ ☼		PEW 3225 PQ ☼					

dimensions in mm

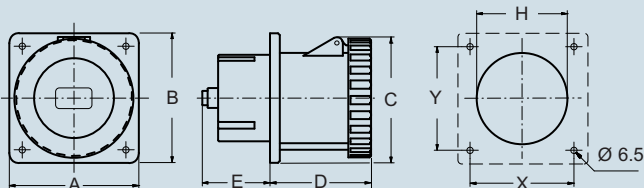
(16 / 32A) PEW ... PQ



PEW...PQ	A	B	C	D	E	H	X	Y
16A 2P+⊕	65	65	77	52	27	60	52	52
3P+⊕	65	65	85	52	27	61.5	52	52
3P+N+⊕	80	80	93	52	27	70	60	60
32A 2P+⊕	80	80	98	62	28	68	60	60
3P+⊕	80	80	98	62	28	68	60	60
3P+N+⊕	80	80	105	62	28	73	60	60

dimensions in mm

(63 / 125A) PEW ... PQ



PEW ... PQ	A	B	C	D	E	H	X	Y
63A 2P+⊕	100	107	109	92	30	73	77	85
3P+⊕	100	107	109	92	30	73	77	85
3P+N+⊕	100	107	109	92	30	73	77	85
125A 2P+⊕	130	130	130	101	68	91	104	104
3P+⊕	130	130	130	101	68	91	104	104
3P+N+⊕	130	130	130	101	68	91	104	104

SIP... plugs with phase inverter, low voltage



- Compliant with EN 60309-1 and -2
- Enclosure and insert in insulating, thermoplastic and self-extinguishing material
- SIP... types (IP44), red enclosure (colour coded according to the operating voltage), entry with threaded grommet
- SIP...SV types (IP44), entry with cable gland colour coded according to the operating voltage, RAL 7035 grey colour enclosure
- SIPW... types (IP67), RAL 7035 grey enclosure, red bayonet ring (colour coded according to the operating voltage), entry with cable gland
- SIPW...SV types (IP66/IP67), entry with cable gland colour coded according to the operating voltage, RAL 7035 grey enclosure, locking ring and gasket, colour coded according to the operating voltage, earth contact position different from h 6 on request
- Built-in phase inverter device, operated by means of a screwdriver
- Terminals with retained screws
- SIP/SIPW...SM/SI types: nickel-plated contacts on request
- SIPW...SV HEAVY DUTY types: nickel-plated contacts on request
- IP44 and IP66/IP67 degrees of protection (EN 60529)

Number of poles	Frequency Hz	Voltage V	Rated current	Earthing cont. position h
3P+N+⊕	50 and 60	200/346 - 240/415	16A	6
	50 and 60	200/346 - 240/415	32A	6

Version

SIP plugs incorporate a mechanical device that exchanges the position of the pins of phases L2 and L3 (phase inverter); this enables the phase cycles to be adapted to the required direction of rotation of three-phase motors.
The device can be regulated on the contact side using a screwdriver without having to disassemble the plug.



Accessories for IP66/IP67 plugs (optional)



Loose protective cover

Size	Part No.
16A	PEW 165 CS
32A	PEW 325 CS

dimensions shown are not binding
and may be changed without notice

16A and 32A wall-mounting plugs
IP44 degree of protection



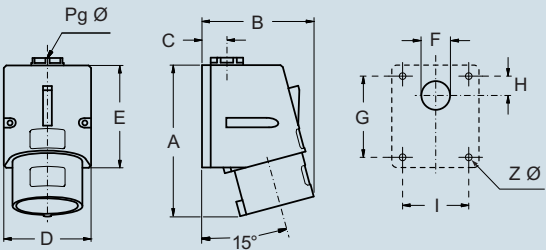
16A and 32A wall-mounting plugs
IP67 degree of protection



Part No.	Colour	Part No.	Colour
SIP 1665 SM	Red	SIPW 1665 SM	Red
SIP 3265 SM	Red	SIPW 3265 SM	Red

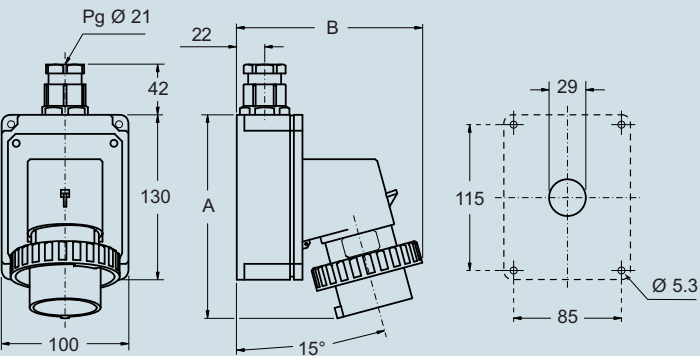
dimensions in mm

SIP ... SM



Type	A	B	C	D	E	F	G	H	I	Z	Pg
16A	121	90	20	70	82	23	65	16	53	4.3	16
32A	147	95	24	86	104	29	79	17	61	6.3	21

SIPW ... SM



Type	A	B
16A	164	145
32A	178	160

SIP... plugs with phase inverter, low voltage



16A and 32A flush-mounting plugs
IP44 degree of protection



16A and 32A flush-mounting plugs
IP67 degree of protection

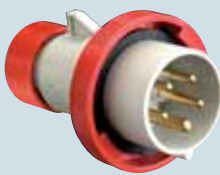


16A and 32A plugs
IP44 degree of protection



NEW

16A and 32A plugs
IP67 degree of protection

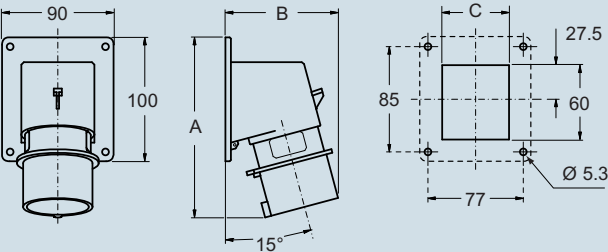


NEW

Part No.	Colour	Part No.	Colour	Part No.	Colour	Part No.	Colour
SIP 1665 SI		SIPW 1665 SI		SIP 1665 SV		SIPW 1665 SV	
SIP 3265 SI		SIPW 3265 SI		SIP 3265 SV		SIPW 3265 SV	

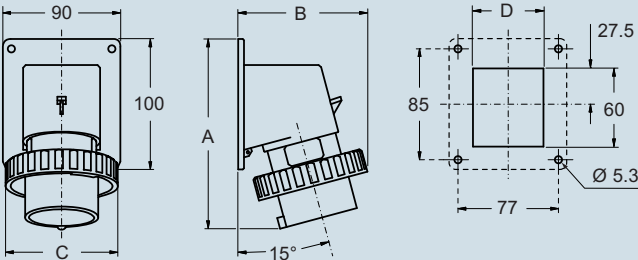
dimensions in mm

SIP ... SI



Type	A	B	C
16A	146	93	54
32A	160	106	62

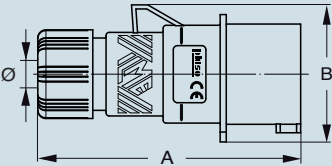
SIPW ... SI



Type	A	B	C	D
16A	146	99	86	54
32A	160	113	100	62

dimensions in mm

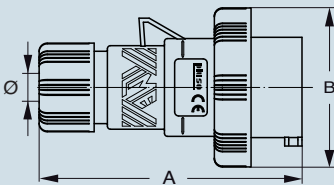
SIP ... SV



Type	A	B	ø min	ø max
16A	129	75	8	24
32A	150	90	8	24

dimensions in mm

SIPW ... SV



Type	A	B	ø min	ø max
16A	129	86	8	24
32A	150	100	8	24



- PN...SV types 16A (IP44), entry with cable gland colour RAL 9005 black, enclosure colour RAL 9005 black
- PN...PV types 16A (IP44), enclosure and spring lid colour RAL 9005 black, entry with cable gland
- Compliant with EN 60309-1 and -2
- PN...SV types, enclosure and insert in insulating, thermoplastic, self-extinguishing material
- PN...PV types, enclosure, insert and spring lid in insulating, thermoplastic, self-extinguishing material
- Terminals with retained screws
- IP44 degree of protection (EN 60529)

16A coupler plugs
IP44 degree of protection
low voltage:
from over 50V up to 690V



NEW

16A coupler socket-outlets
IP44 degree of protection
low voltage:
from over 50V up to 690V

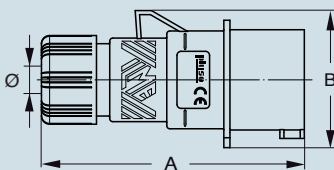


NEW

Number of poles	Frequency Hz	Voltage V	Earthing contact position h	Part No.	Part No.
2P+⊕	50 and 60	200 - 250	6	PN 1663 SV	PN 1663 PV
3P+⊕	50 and 60	380 - 415	6	PN 1664 SV	PN 1664 PV
3P+N+⊕	50 and 60	200/346 - 240/415	6	PN 1665 SV	PN 1665 PV

dimensions in mm

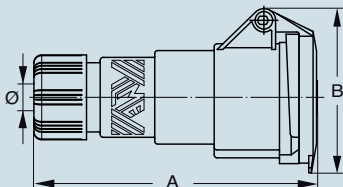
(16A) PN ... SV



PN...SV	A	B	ø min	ø max
16A 2P+⊕	129	59.5	7	16
3P+⊕	129	67	7	16
3P+N+⊕	129	75	8	24

dimensions in mm

(16A) PN ... PV



PN...PV	A	B	ø min	ø max
16A 2P+⊕	146	74.5	7	16
3P+⊕	146	84.5	7	16
3P+N+⊕	146	92.5	8	24

dimensions shown are not binding
and may be changed without notice



- Enclosure and spring lid colour RAL 9005 black
- Compliant with EN 60309-1 and -2
- Enclosure, insert and spring lid in insulating, thermoplastic, self-extinguishing material
- Flange with anti-ageing gasket
- PN...PI - PN...PQ types (IP44), spring lid
- Terminals with retained screws
- IP44 degree of protection (EN 60529)

16A flush-mounting inclined
socket-outlets
IP44 degree of protection
low voltage:
from over 50V up to 690V



NEW

16A flush-mounting straight
socket-outlets
IP44 degree of protection
low voltage:
from over 50V up to 690V

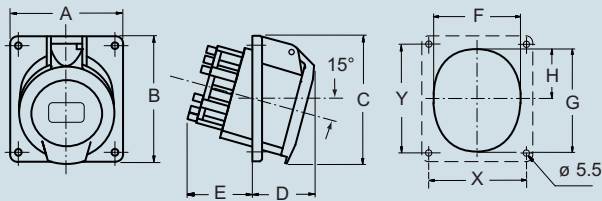


NEW

Number of poles	Frequency Hz	Voltage V	Earthing contact position h	Part No.	Part No.
2P+⊕	50 and 60	200 - 250	6	PN 1663 PI	PN 1663 PQ
3P+⊕	50 and 60	380 - 415	6	PN 1664 PI	PN 1664 PQ
3P+N+⊕	50 and 60	200/346 - 240/415	6	PN 1665 PI	PN 1665 PQ

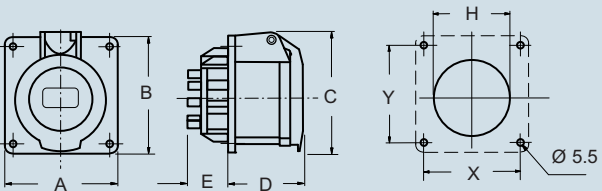
dimensions in mm

(16A) PN ... PI



PN ... PI	A	B	C	D	E	F	G	H	X	Y
16A 2P+⊕	64	82	82	38	46	52	62	30	52	60
3P+⊕	64	82	82	42	47	57	65	28	52	60
3P+N+⊕	92	100	100	43	47	66	78	37.5	77	85

(16A) PN ... PQ



PN...PQ	A	B	C	D	E	H	X	Y
16A 2P+⊕	65	65	71	52	27	60	52	52
3P+⊕	65	65	75	53	27	61.5	52	52
3P+N+⊕	80	80	86	53	27	70	60	60

dimensions shown are not binding
and may be changed without notice



- Compliant with EN 60309-1 and -2
- Enclosure, insert and spring lid in insulating, thermoplastic, self-extinguishing material
- RAL 7035 grey enclosure
- Spring lid colour coded according to the operating voltage and frequency
- Wall-mounting types PB...PP, top entry with threaded grommet (replaceable with cable gland)
- Flush-mounting types PB...PI, flange with anti-aging gasket
- Coupler types PB...PV, cable anchoring collar incorporated in the insert, entry with grommet
- Terminals with retained screws
- Nickel-plated contacts on request
- IP44 degree of protection (EN 60529)
- with Italian Quality Mark

16A wall-mounting socket
IP44 degree of protection



32A wall-mounting socket
IP44 degree of protection

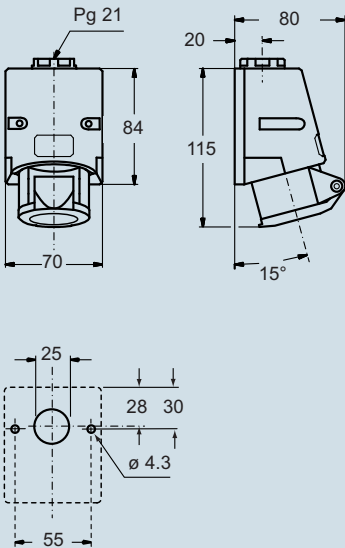


Number of poles	Frequency Hz	Voltage V	Earthing contact position h	Part No.	Colour	Part No.	Colour
2P	50 and 60	20 - 25	-	PB 16002 PP		PB 32002 PP	
	50 and 60	40 - 50	12	PB 16122 PP		PB 32122 PP	
	> 100 - 200 included	20 - 25 and 40 - 50	4	PB 16042 PP		PB 32042 PP	
	300	20 - 25 and 40 - 50	2	PB 16022 PP		PB 32022 PP	
	400	20 - 25 and 40 - 50	3	PB 16032 PP		PB 32032 PP	
	> 400 - 500 included	20 - 25 and 40 - 50	11	PB 16112 PP		PB 32112 PP	
	d.c.	20 - 25 and 40 - 50	10	PB 16102 PP		PB 32102 PP	
3P	50 and 60	20 - 25	-	PB 16003 PP		PB 32003 PP	
	50 and 60	40 - 50	12	PB 16123 PP		PB 32123 PP	
	> 100 - 200 included	20 - 25 and 40 - 50	4	PB 16043 PP		PB 32043 PP	
	300	20 - 25 and 40 - 50	2	PB 16023 PP		PB 32023 PP	
	400	20 - 25 and 40 - 50	3	PB 16033 PP		PB 32033 PP	
	> 400 - 500 included	20 - 25 and 40 - 50	11	PB 16113 PP		PB 32113 PP	

(*) Green may be used together with the colour of the operating range for frequencies above 60 Hz and up to a maximum of 500 Hz.

dimensions in mm

(16 / 32A) PB ... PP



dimensions shown are not binding
and may be changed without notice

PB... socket-outlets for extra-low voltages, up to 50V



16A flush-mounting socket-outlets
IP44 degree of protection



32A flush-mounting socket-outlets
IP44 degree of protection



16A couplers
IP44 degree of protection



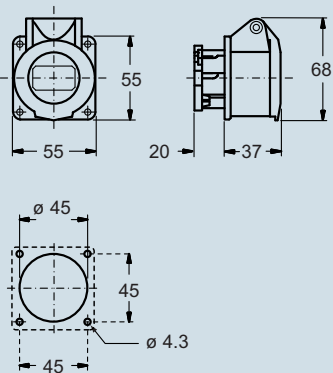
32A couplers
IP44 degree of protection



Part No.	Colour	Part No.	Colour	Part No.	Colour	Part No.	Colour
PB 16002 PI	E 45 x 45 mm	PB 32002 PI	E 45 x 45 mm	PB 16002 PV	E 45 x 45 mm	PB 32002 PV	E 45 x 45 mm
PB 16122 PI		PB 32122 PI		PB 16122 PV		PB 32122 PV	
PB 16042 PI		PB 32042 PI		PB 16042 PV		PB 32042 PV	
PB 16022 PI		PB 32022 PI		PB 16022 PV		PB 32022 PV	
PB 16032 PI		PB 32032 PI		PB 16032 PV		PB 32032 PV	
PB 16112 PI		PB 32112 PI		PB 16112 PV		PB 32112 PV	
PB 16102 PI		PB 32102 PI		PB 16102 PV		PB 32102 PV	
PB 16003 PI	E 45 x 45 mm	PB 32003 PI	E 45 x 45 mm	PB 16003 PV	E 45 x 45 mm	PB 32003 PV	E 45 x 45 mm
PB 16123 PI		PB 32123 PI		PB 16123 PV		PB 32123 PV	
PB 16043 PI		PB 32043 PI		PB 16043 PV		PB 32043 PV	
PB 16023 PI		PB 32023 PI		PB 16023 PV		PB 32023 PV	
PB 16033 PI		PB 32033 PI		PB 16033 PV		PB 32033 PV	
PB 16113 PI		PB 32113 PI		PB 16113 PV		PB 32113 PV	

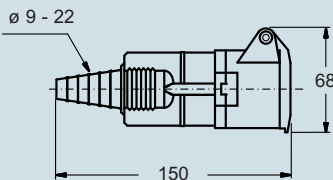
dimensions in mm

(16 / 32A) PB ... PI

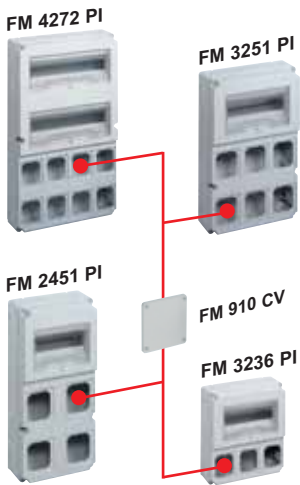


dimensions in mm

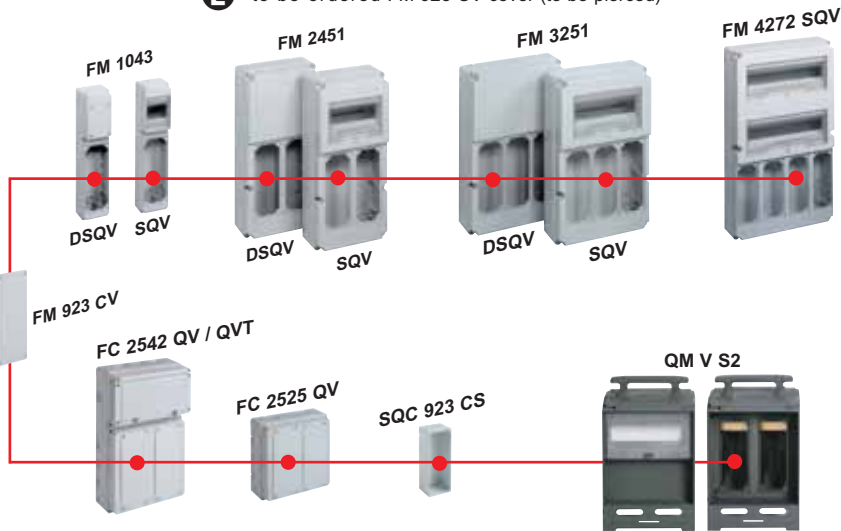
(16 / 32A) PB ... PV



E to be ordered FM 910 CV cover
(to be pierced)



E to be ordered FM 923 CV cover (to be pierced)



PB... plugs for extra-low voltages, up to 50V



- Compliant with EN 60309-1 and -2
- Enclosure and insert in insulating, thermoplastic and self-extinguishing material
- RAL 7035 grey enclosure
- Plug mouth colour coded according to the operating voltage and frequency
- Wall-mounting types PB...SM, top entry with threaded grommet (replaceable with cable gland)
- Coupler types PB...SV, cable anchoring collar incorporated in the collar, entry with grommet
- Terminals with retained screws
- Nickel-plated contacts on request
- IP44 degree of protection (EN 60529)
- ® with Italian Quality Mark

16A wall-mounting plugs
IP44 degree of protection



32A wall-mounting plugs
IP44 degree of protection

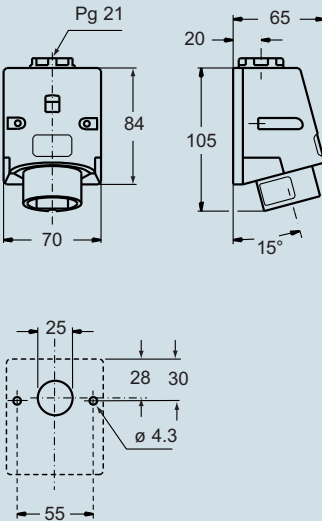


Number of poles	Frequency Hz	Voltage V	Earthing contact position h	Part No.	Colour	Part No.	Colour
2P	50 and 60	20 - 25	-	PB 16002 SM ®		PB 32002 SM ®	
	50 and 60	40 - 50	12	PB 16122 SM ®		PB 32122 SM ®	
	> 100 - 200 included	20 - 25 and 40 - 50	4	PB 16042 SM ®		PB 32042 SM ®	
	300	20 - 25 and 40 - 50	2	PB 16022 SM ®		PB 32022 SM ®	
	400	20 - 25 and 40 - 50	3	PB 16032 SM ®		PB 32032 SM ®	
	> 400 - 500 included	20 - 25 and 40 - 50	11	PB 16112 SM ®		PB 32112 SM ®	
	d.c.	20 - 25 and 40 - 50	10	PB 16102 SM ®		PB 32102 SM ®	
3P	50 and 60	20 - 25	-	PB 16003 SM ®		PB 32003 SM ®	
	50 and 60	40 - 50	12	PB 16123 SM ®		PB 32123 SM ®	
	> 100 - 200 included	20 - 25 and 40 - 50	4	PB 16043 SM ®		PB 32043 SM ®	
	300	20 - 25 and 40 - 50	2	PB 16023 SM ®		PB 32023 SM ®	
	400	20 - 25 and 40 - 50	3	PB 16033 SM ®		PB 32033 SM ®	
	> 400 - 500 included	20 - 25 and 40 - 50	11	PB 16113 SM ®		PB 32113 SM ®	
				PB 16103 SM ®		PB 32103 SM ®	

(*) Green may be used together with the colour of the operating range for frequencies above 60 Hz and up to a maximum of 500 Hz.

dimensions in mm

(16 / 32A) PB ... SM



dimensions shown are not binding
and may be changed without notice

PB... plugs for extra-low voltages, up to 50V



16A plugs
IP44 degree of protection



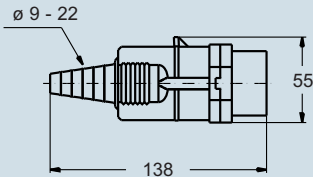
32A plugs
IP44 degree of protection



Part No.	Colour	Part No.	Colour
PB 16002 SV		PB 32002 SV	
PB 16122 SV		PB 32122 SV	
PB 16042 SV		PB 32042 SV	
PB 16022 SV		PB 32022 SV	
PB 16032 SV		PB 32032 SV	
PB 16112 SV		PB 32112 SV	
PB 16102 SV		PB 32102 SV	
PB 16003 SV		PB 32003 SV	
PB 16123 SV		PB 32123 SV	
PB 16043 SV		PB 32043 SV	
PB 16023 SV		PB 32023 SV	
PB 16033 SV		PB 32033 SV	
PB 16113 SV		PB 32113 SV	

dimensions in mm

(16 / 32A) PB ... SV





Part No.	page	Part No.	page	Part No.	page
PB 16002 PI	35	PB 32002 PV.....	35	PE 16104 SA.....	18
PB 16002 PP.....	34	PB 32002 SM	36	PE 16104 SI	24
PB 16002 PV.....	35	PB 32002 SV	37	PE 16104 SM	20
PB 16002 SM	36	PB 32003 PI	35	PE 16104 SV.....	10
PB 16002 SV.....	37	PB 32003 PP.....	34	PE 16114 PI	26
PB 16003 PI	35	PB 32003 PV.....	35	PE 16114 PP.....	22
PB 16003 PP.....	34	PB 32003 SM	36	PE 16114 PQ.....	28
PB 16003 PV.....	35	PB 32003 SV	37	PE 16114 PV.....	12
PB 16003 SM	36	PB 32022 PI	35	PE 16114 SA.....	18
PB 16003SV	37	PB 32022 PP.....	34	PE 16114 SI	24
PB 16022 PI	35	PB 32022 PV.....	35	PE 16114 SM	20
PB 16022 PP.....	34	PB 32022 SM	36	PE 16114 SV.....	10
PB 16022 PV.....	35	PB 32022 SV	37	PE 16115 PI	26
PB 16022 SM	36	PB 32023 PI	35	PE 16115 PP.....	22
PB 16022 SV.....	37	PB 32023 PP.....	34	PE 16115 PQ.....	28
PB 16023 PI	35	PB 32023 PV.....	35	PE 16115 PV.....	12
PB 16023 PP.....	34	PB 32023 SM	36	PE 16115 SA.....	18
PB 16023 PV.....	35	PB 32023 SV	37	PE 16115 SI	24
PB 16023 SM	36	PB 32032 PI	35	PE 16115 SM	20
PB 16023 SV.....	37	PB 32032 PP.....	34	PE 16115 SV.....	10
PB 16032 PI	35	PB 32032 PV.....	35	PE 16123 PI	26
PB 16032 PP.....	34	PB 32032 SM	36	PE 16123 PP.....	22
PB 16032 PV.....	35	PB 32032 SV	37	PE 16123 PQ.....	28
PB 16032 SM	36	PB 32033 PI	35	PE 16123 PV.....	12
PB 16032 SV.....	37	PB 32033 PP.....	34	PE 16123 SA.....	18
PB 16033 PI	35	PB 32033 PV.....	35	PE 16123 SI	24
PB 16033 PP.....	34	PB 32033 SM	36	PE 16123 SM	20
PB 16033 PV.....	35	PB 32033 SV	37	PE 16123 SV.....	10
PB 16033 SM	36	PB 32042 PI	35	PE 1623 PI	26
PB 16033 SV.....	37	PB 32042 PP.....	34	PE 1623 PP.....	22
PB 16042 PI	35	PB 32042 PV.....	35	PE 1623 PQ.....	28
PB 16042 PP.....	34	PB 32042 SM	36	PE 1623 PV.....	12
PB 16042 PV.....	35	PB 32042 SV.....	37	PE 1623 SA.....	18
PB 16042 SM	36	PB 32043 PI	35	PE 1623 SI	24
PB 16042 SV.....	37	PB 32043 PP.....	34	PE 1623 SM	20
PB 16043 PI	35	PB 32043 PV.....	35	PE 1623 SV.....	10
PB 16043 PP.....	34	PB 32043 SM	34	PE 1624 PI	26
PB 16043 PV.....	35	PB 32043 SV.....	37	PE 1624 PP.....	22
PB 16043 SM	36	PB 32102 PI	35	PE 1624 PQ.....	28
PB 16043 SV.....	37	PB 32102 PP.....	34	PE 1624 PV.....	12
PB 16102 PI	35	PB 32102 PV.....	35	PE 1624 SA.....	18
PB 16102 PP.....	34	PB 32102 SM	36	PE 1624 SI	24
PB 16102 PV.....	35	PB 32102 SV.....	37	PE 1624 SM	20
PB 16102 SM	36	PB 32103 PI	35	PE 1624 SV.....	10
PB 16102 SV.....	37	PB 32103 PP.....	34	PE 1625 PI	26
PB 16103 PI	35	PB 32103 PV.....	35	PE 1625 PP.....	22
PB 16103 PP.....	34	PB 32103 SM	36	PE 1625 PQ.....	28
PB 16103 PV.....	35	PB 32103 SV.....	37	PE 1625 PV.....	12
PB 16103 SM	36	PB 32112 PI	35	PE 1625 SA.....	18
PB 16103 SV.....	37	PB 32112 PP.....	34	PE 1625 SI	24
PB 16112 PI	35	PB 32112 PV.....	35	PE 1625 SM	20
PB 16112 PP.....	34	PB 32112 SM	36	PE 1625 SV.....	10
PB 16112 PV.....	35	PB 32112 SV.....	37	PE 1633 PI	26
PB 16112 SM	36	PB 32113 PI	35	PE 1633 PP.....	22
PB 16112 SV.....	37	PB 32113 PP.....	34	PE 1633 PQ.....	28
PB 16113 PI	35	PB 32113 PV.....	35	PE 1633 PV.....	12
PB 16113 PP.....	34	PB 32113 SM	36	PE 1633 SA.....	18
PB 16113 PV.....	35	PB 32113 SV.....	37	PE 1633 SI	24
PB 16113 SM	36	PB 32122 PI	35	PE 1633 SM	20
PB 16113 SV.....	37	PB 32122 PP.....	34	PE 1633 SV	10
PB 16122 PI	35	PB 32122 PV.....	35	PE 1634 PI	26
PB 16122 PP.....	34	PB 32122 SM	36	PE 1634 PP.....	22
PB 16122 PV.....	35	PB 32122 SV.....	37	PE 1634 PQ.....	28
PB 16122 SM	36	PB 32123 PI	35	PE 1634 PV.....	12
PB 16122 SV.....	37	PB 32123 PP.....	34	PE 1634 SA.....	18
PB 16123 PI	35	PB 32123 PV.....	35	PE 1634 SI	24
PB 16123 PP.....	34	PB 32123 SM	36	PE 1634 SM	20
PB 16123 PV.....	35	PB 32123 SV.....	37	PE 1634 SV.....	10
PB 16123 SM	36	PE 16104 PI	26	PE 1635 PI	26
PB 16123 SV.....	37	PE 16104 PP.....	22	PE 1635 PP.....	22
PB 32002 PI	35	PE 16104 PQ.....	28	PE 1635 PQ.....	28
PB 32002 PP.....	34	PE 16104 PV.....	12	PE 1635 PV.....	12



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PE 1635 SA	18	PE 1673 SA	18	PE 32115 SA	18
PE 1635 SI	24	PE 1673 SI	24	PE 32115 SI	24
PE 1635 SM	20	PE 1673 SM	20	PE 32115 SM	20
PE 1635 SV	10	PE 1673 SV	10	PE 32115 SV	10
PE 1643 PI	26	PE 1674 PI	26	PE 32123 PI	26
PE 1643 PP	22	PE 1674 PP	22	PE 32123 PP	22
PE 1643 PQ	28	PE 1674 PQ	28	PE 32123 PQ	28
PE 1643 PV	12	PE 1674 PV	12	PE 32123 PV	12
PE 1643 SA	18	PE 1674 SA	18	PE 32123 SA	18
PE 1643 SI	24	PE 1674 SI	24	PE 32123 SI	24
PE 1643 SM	20	PE 1674 SM	20	PE 32123 SM	20
PE 1643 SV	10	PE 1674 SV	10	PE 32123 SV	10
PE 1644 PI	26	PE 1675 PI	26	PE 3223 PI	26
PE 1644 PP	22	PE 1675 PP	22	PE 3223 PP	22
PE 1644 PQ	28	PE 1675 PQ	28	PE 3223 PQ	28
PE 1644 PV	12	PE 1675 PV	12	PE 3223 PV	12
PE 1644 SA	18	PE 1675 SA	18	PE 3223 SA	18
PE 1644 SI	24	PE 1675 SI	24	PE 3223 SI	24
PE 1644 SM	20	PE 1675 SM	20	PE 3223 SM	20
PE 1644 SV	10	PE 1675 SV	10	PE 3223 SV	10
PE 1645 PI	26	PE 1683 PI	26	PE 3224 PI	26
PE 1645 PP	22	PE 1683 PP	22	PE 3224 PP	22
PE 1645 PQ	28	PE 1683 PQ	28	PE 3224 PQ	26
PE 1645 PV	12	PE 1683 PV	12	PE 3224 PV	12
PE 1645 SA	18	PE 1683 SA	18	PE 3224 SA	18
PE 1645 SI	24	PE 1683 SI	24	PE 3224 SI	24
PE 1645 SM	20	PE 1683 SM	20	PE 3224 SM	20
PE 1645 SV	10	PE 1683 SV	10	PE 3224 SV	10
PE 1654 PI	26	PE 1693 PI	26	PE 3225 PI	26
PE 1654 PP	22	PE 1693 PP	22	PE 3225 PP	22
PE 1654 PQ	28	PE 1693 PQ	28	PE 3225 PQ	28
PE 1654 PV	12	PE 1693 PV	12	PE 3225 PV	12
PE 1654 SA	18	PE 1693 SA	18	PE 3225 SA	18
PE 1654 SI	24	PE 1693 SI	24	PE 3225 SI	24
PE 1654 SM	20	PE 1693 SM	20	PE 3225 SM	20
PE 1654 SV	10	PE 1693 SV	10	PE 3225 SV	10
PE 1655 PI	26	PE 1694 PI	26	PE 3233 PI	26
PE 1655 PP	22	PE 1694 PP	22	PE 3233 PP	22
PE 1655 PQ	28	PE 1694 PQ	28	PE 3233 PQ	28
PE 1655 PV	12	PE 1694 PV	12	PE 3233 PV	12
PE 1655 SA	18	PE 1694 SA	18	PE 3233 SA	18
PE 1655 SI	24	PE 1694 SI	24	PE 3233 SI	24
PE 1655 SM	20	PE 1694 SM	20	PE 3233 SM	20
PE 1655 SV	10	PE 1694 SV	10	PE 3233 SV	10
PE 1663 PI	26	PE 1695 PI	26	PE 3234 PI	26
PE 1663 PP	22	PE 1695 PP	22	PE 3234 PP	22
PE 1663 PQ	28	PE 1695 PQ	28	PE 3234 PQ	28
PE 1663 PV	12	PE 1695 PV	12	PE 3234 PV	12
PE 1663 SA	18	PE 1695 SA	18	PE 3234 SA	18
PE 1663 SI	24	PE 1695 SI	24	PE 3234 SI	24
PE 1663 SM	20	PE 1695 SM	20	PE 3234 SM	20
PE 1663 SV	10	PE 1695 SV	10	PE 3234 SV	10
PE 1664 PI	26	PE 32104 PI	26	PE 3235 PI	26
PE 1664 PP	22	PE 32104 PP	22	PE 3235 PP	22
PE 1664 PQ	28	PE 32104 PQ	28	PE 3235 PQ	28
PE 1664 PV	12	PE 32104 PV	12	PE 3235 PV	12
PE 1664 SA	18	PE 32104 SA	18	PE 3235 SA	18
PE 1664 SI	24	PE 32104 SI	24	PE 3235 SI	24
PE 1664 SM	20	PE 32104 SM	20	PE 3235 SM	20
PE 1664 SV	10	PE 32104 SV	10	PE 3235 SV	10
PE 1665 PI	26	PE 32114 PI	26	PE 3243 PI	26
PE 1665 PP	22	PE 32114 PP	22	PE 3243 PP	22
PE 1665 PQ	28	PE 32114 PQ	28	PE 3243 PQ	28
PE 1665 PV	12	PE 32114 PV	12	PE 3243 PV	12
PE 1665 SA	18	PE 32114 SA	18	PE 3243 SA	18
PE 1665 SI	24	PE 32114 SI	24	PE 3243 SI	24
PE 1665 SM	20	PE 32114 SM	20	PE 3243 SM	20
PE 1665 SV	10	PE 32114 SV	10	PE 3243 SV	10
PE 1673 PI	26	PE 32115 PI	26	PE 3244 PI	26
PE 1673 PP	22	PE 32115 PP	22	PE 3244 PP	22
PE 1673 PQ	28	PE 32115 PQ	28	PE 3244 PQ	28
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PE 3244 SV.....	10	PE 3275 SV.....	10	PEW 12544 PV.....	13
PE 3245 PI.....	26	PE 3283 PI.....	26	PEW 12544 SI.....	25
PE 3245 PP.....	22	PE 3283 PP.....	22	PEW 12544 SM.....	21
PE 3245 PQ.....	28	PE 3283 PQ.....	28	PEW 12544 SV.....	11
PE 3245 PV.....	12	PE 3283 PV.....	12	PEW 12545 PI.....	27
PE 3245 SA.....	18	PE 3283 SA.....	18	PEW 12545 PP.....	23
PE 3245 SI.....	24	PE 3283 SI.....	24	PEW 12545 PQ.....	29
PE 3245 SM.....	20	PE 3283 SM.....	20	PEW 12545 PV.....	13
PE 3245 SV.....	10	PE 3283 SV.....	10	PEW 12545 SI.....	25
PE 3254 PI.....	26	PE 3293 PI.....	26	PEW 12545 SM.....	21
PE 3254 PP.....	22	PE 3293 PP.....	22	PEW 12545 SV.....	11
PE 3254 PQ.....	28	PE 3293 PQ.....	28	PEW 12554 PI.....	27
PE 3254 PV.....	12	PE 3293 PV.....	12	PEW 12554 PP.....	23
PE 3254 SA.....	18	PE 3293 SA.....	18	PEW 12554 PQ.....	29
PE 3254 SI.....	24	PE 3293 SI.....	24	PEW 12554 PV.....	13
PE 3254 SM.....	20	PE 3293 SM.....	20	PEW 12554 SI.....	25
PE 3254 SV.....	10	PE 3293 SV.....	10	PEW 12554 SM.....	21
PE 3255 PI.....	26	PE 3294 PI.....	26	PEW 12554 SV.....	11
PE 3255 PP.....	22	PE 3294 PP.....	22	PEW 12555 PI.....	27
PE 3255 PQ.....	28	PE 3294 PQ.....	28	PEW 12555 PP.....	23
PE 3255 PV.....	12	PE 3294 PV.....	12	PEW 12555 PQ.....	29
PE 3255 SA.....	18	PE 3294 SA.....	18	PEW 12555 PV.....	13
PE 3255 SI.....	24	PE 3294 SI.....	24	PEW 12555 SI.....	25
PE 3255 SM.....	20	PE 3294 SM.....	20	PEW 12555 SM.....	21
PE 3255 SV.....	10	PE 3294 SV.....	10	PEW 12555 SV.....	11
PE 3263 PI.....	26	PE 3295 PI.....	26	PEW 12563 PI.....	27
PE 3263 PP.....	22	PE 3295 PP.....	22	PEW 12563 PP.....	23
PE 3263 PQ.....	28	PE 3295 PQ.....	28	PEW 12563 PQ.....	29
PE 3263 PV.....	12	PE 3295 PV.....	12	PEW 12563 PV.....	13
PE 3263 SA.....	18	PE 3295 SA.....	18	PEW 12563 SI.....	25
PE 3263 SI.....	24	PE 3295 SI.....	24	PEW 12563 SM.....	21
PE 3263 SM.....	20	PE 3295 SM.....	20	PEW 12563 SV.....	11
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PE 3264 PP.....	22	PEW 125114 PI.....	27	PEW 12564 PQ.....	29
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PE 3264 PV.....	12	PEW 125114 PQ.....	29	PEW 12564 SI.....	25
PE 3264 SA.....	18	PEW 125114 PV.....	13	PEW 12564 SM.....	21
PE 3264 SI.....	24	PEW 125114 SI.....	25	PEW 12564 SV.....	11
PE 3264 SM.....	20	PEW 125114 SM.....	21	PEW 12565 PI.....	27
PE 3264 SV.....	10	PEW 125114 SV.....	11	PEW 12565 PP.....	23
PE 3265 PI.....	26	PEW 125115 PI.....	27	PEW 12565 PQ.....	29
PE 3265 PP.....	22	PEW 125115 PP.....	23	PEW 12565 PV.....	13
PE 3265 PQ.....	28	PEW 125115 PQ.....	29	PEW 12565 SI.....	25
PE 3265 PV.....	12	PEW 125115 PV.....	13	PEW 12565 SM.....	21
PE 3265 SA.....	18	PEW 125115 SI.....	25	PEW 12565 SV.....	11
PE 3265 SI.....	24	PEW 125115 SM.....	21	PEW 12573 PI.....	27
PE 3265 SM.....	20	PEW 125115 SV.....	11	PEW 12573 PP.....	23
PE 3265 SV.....	10	PEW 125123 PI.....	27	PEW 12573 PQ.....	29
PE 3273 PI.....	26	PEW 125123 PP.....	23	PEW 12573 PV.....	13
PE 3273 PP.....	22	PEW 125123 PQ.....	29	PEW 12573 SI.....	25
PE 3273 PQ.....	28	PEW 125123 PV.....	13	PEW 12573 SM.....	21
PE 3273 PV.....	12	PEW 125123 SI.....	25	PEW 12573 SV.....	11
PE 3273 SA.....	18	PEW 125123 SM.....	21	PEW 12574 PI.....	27
PE 3273 SI.....	24	PEW 125123 SV.....	11	PEW 12574 PP.....	23
PE 3273 SM.....	20	PEW 12533 PI.....	27	PEW 12574 PQ.....	29
PE 3273 SV.....	10	PEW 12533 PP.....	23	PEW 12574 PV.....	13
PE 3274 PI.....	26	PEW 12533 PQ.....	29	PEW 12574 SI.....	25
PE 3274 PP.....	22	PEW 12533 PV.....	13	PEW 12574 SM.....	21
PE 3274 PQ.....	28	PEW 12533 SI.....	25	PEW 12574 SV.....	11
PE 3274 PV.....	12	PEW 12533 SM.....	21	PEW 12575 PI.....	27
PE 3274 SA.....	18	PEW 12533 SV.....	11	PEW 12575 PP.....	23
PE 3274 SI.....	24	PEW 12543 PI.....	27	PEW 12575 PQ.....	29
PE 3274 SM.....	20	PEW 12543 PP.....	23	PEW 12575 PV.....	13
PE 3274 SV.....	10	PEW 12543 PQ.....	29	PEW 12575 SI.....	25
PE 3275 PI.....	26	PEW 12543 PV.....	13	PEW 12575 SM.....	21
PE 3275 PP.....	22	PEW 12543 SI.....	25	PEW 12575 SV.....	11
PE 3275 PQ.....	28	PEW 12543 SM.....	21	PEW 12583 PI.....	27
PE 3275 PV.....	12	PEW 12543 SV.....	11	PEW 12583 PP.....	23



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PEW 12583 SI.....	25	PEW 1625 PI.....	27	PEW 1655 SI.....	25
PEW 12583 SM.....	21	PEW 1625 PP.....	23	PEW 1655 SM.....	21
PEW 12583 SV.....	11	PEW 1625 PQ.....	29	PEW 1655 SV.....	11
PEW 12593 PI.....	27	PEW 1625 PV.....	13	PEW 1663 PI.....	27
PEW 12593 PP.....	23	PEW 1625 SA.....	19	PEW 1663 PP.....	23
PEW 12593 PQ.....	29	PEW 1625 SI.....	25	PEW 1663 PQ.....	29
PEW 12593 PV.....	13	PEW 1625 SM.....	21	PEW 1663 PV.....	13
PEW 12593 SI.....	25	PEW 1625 SV.....	11	PEW 1663 SA.....	19
PEW 12593 SM.....	21	PEW 163 CS.....	10-18-20-25	PEW 1663 SI.....	25
PEW 12593 SV.....	11	PEW 1633 PI.....	27	PEW 1663 SM.....	21
PEW 12594 PI.....	27	PEW 1633 PP.....	23	PEW 1663 SV.....	11
PEW 12594 PP.....	23	PEW 1633 PQ.....	29	PEW 1664 PI.....	27
PEW 12594 PQ.....	29	PEW 1633 PV.....	13	PEW 1664 PP.....	23
PEW 12594 PV.....	13	PEW 1633 SA.....	19	PEW 1664 PQ.....	29
PEW 12594 SI.....	25	PEW 1633 SI.....	25	PEW 1664 PV.....	13
PEW 12594 SM.....	21	PEW 1633 SM.....	21	PEW 1664 SA.....	19
PEW 12594 SV.....	11	PEW 1633 SV.....	11	PEW 1664 SI.....	23
PEW 12595 PI.....	27	PEW 1634 PI.....	27	PEW 1664 SM.....	21
PEW 12595 PP.....	23	PEW 1634 PP.....	23	PEW 1664 SV.....	11
PEW 12595 PQ.....	29	PEW 1634 PQ.....	29	PEW 1665 PI.....	27
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PEW 12595 SM.....	21	PEW 1634 SI.....	25	PEW 1665 PV.....	13
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PEW 16104 SA.....	19	PEW 1635 PV.....	13	PEW 1673 PP.....	23
PEW 16104 SI.....	25	PEW 1635 SA.....	19	PEW 1673 PQ.....	29
PEW 16104 SM.....	21	PEW 1635 SI.....	25	PEW 1673 PV.....	13
PEW 16104 SV.....	11	PEW 1635 SM.....	21	PEW 1673 SA.....	19
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PEW 16114 PP.....	23	PEW 164 CS.....	10-18-20-25	PEW 1673 SM.....	21
PEW 16114 PQ.....	29	PEW 1643 PI.....	27	PEW 1673 SV.....	11
PEW 16114 PV.....	13	PEW 1643 PP.....	23	PEW 1674 PI.....	27
PEW 16114 SA.....	19	PEW 1643 PQ.....	29	PEW 1674 PI.....	29
PEW 16114 SI.....	25	PEW 1643 PV.....	13	PEW 1674 PP.....	23
PEW 16114 SM.....	21	PEW 1643 SA.....	19	PEW 1674 PV.....	13
PEW 16114 SV.....	11	PEW 1643 SI.....	25	PEW 1674 SA.....	19
PEW 16115 PI.....	27	PEW 1643 SM.....	21	PEW 1674 SI.....	25
PEW 16115 PP.....	23	PEW 1643 SV.....	11	PEW 1674 SM.....	21
PEW 16115 PQ.....	29	PEW 1644 PI.....	27	PEW 1674 SV.....	11
PEW 16115 PV.....	11	PEW 1644 PP.....	23	PEW 1675 PI.....	27
PEW 16115 SA.....	19	PEW 1644 PQ.....	29	PEW 1675 PP.....	23
PEW 16115 SI.....	25	PEW 1644 PV.....	13	PEW 1675 PQ.....	29
PEW 16115 SM.....	21	PEW 1644 SA.....	19	PEW 1675 PV.....	13
PEW 16115 SV.....	11	PEW 1644 SI.....	25	PEW 1675 SA.....	19
PEW 16123 PI.....	27	PEW 1644 SM.....	21	PEW 1675 SI.....	25
PEW 16123 PP.....	23	PEW 1644 SV.....	11	PEW 1675 SM.....	21
PEW 16123 PQ.....	29	PEW 1645 PI.....	27	PEW 1675 SV.....	11
PEW 16123 PV.....	13	PEW 1645 PP.....	23	PEW 1683 PI.....	27
PEW 16123 SA.....	19	PEW 1645 PQ.....	29	PEW 1683 PP.....	23
PEW 16123 SI.....	25	PEW 1645 PV.....	13	PEW 1683 PQ.....	29
PEW 16123 SM.....	21	PEW 1645 SA.....	19	PEW 1683 PV.....	13
PEW 16123 SV.....	11	PEW 1645 SI.....	23	PEW 1683 SA.....	19
PEW 1623 PI.....	27	PEW 1645 SM.....	21	PEW 1683 SI.....	25
PEW 1623 PP.....	23	PEW 1645 SV.....	11	PEW 1683 SM.....	21
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PEW 1624 PI.....	27	PEW 1654 SI.....	25	PEW 1693 SI.....	25
PEW 1624 PP.....	23	PEW 1654 SM.....	21	PEW 1693 SM.....	21
PEW 1624 PQ.....	29	PEW 1654 SV.....	11	PEW 1693 SV.....	11
PEW 1624 PV.....	13	PEW 1655 PI.....	27	PEW 1694 PI.....	27
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PEW 1694 SI	25	PEW 3233 SI	25	PEW 3264 PV	13
PEW 1694 SM	21	PEW 3233 SM	21	PEW 3264 SA	19
PEW 1694 SV	11	PEW 3233 SV	11	PEW 3264 SI	25
PEW 1695 PI	27	PEW 3234 PI	27	PEW 3264 SM	21
PEW 1695 PP	23	PEW 3234 PP	23	PEW 3264 SV	11
PEW 1695 PQ	29	PEW 3234 PQ	29	PEW 3265 PI	27
PEW 1695 PV	13	PEW 3234 PV	13	PEW 3265 PP	23
PEW 1695 SA	19	PEW 3234 SA	19	PEW 3265 PQ	29
PEW 1695 SI	25	PEW 3234 SI	25	PEW 3265 PV	13
PEW 1695 SM	21	PEW 3234 SM	21	PEW 3265 SA	19
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PEW 32104 PV	13	PEW 3235 PV	13	PEW 3273 PP	23
PEW 32104 SA	19	PEW 3235 SA	19	PEW 3273 PQ	29
PEW 32104 SI	25	PEW 3235 SI	25	PEW 3273 PV	13
PEW 32104 SM	21	PEW 3235 SM	21	PEW 3273 SA	19
PEW 32104 SV	11	PEW 3235 SV	11	PEW 3273 SI	25
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PEW 32114 PV	13	PEW 3243 PQ	29	PEW 3274 PP	23
PEW 32114 SA	19	PEW 3243 PV	13	PEW 3274 PQ	29
PEW 32114 SI	25	PEW 3243 SA	19	PEW 3274 PV	13
PEW 32114 SM	21	PEW 3243 SI	25	PEW 3274 SA	19
PEW 32114 SV	11	PEW 3243 SM	21	PEW 3274 SI	25
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PEW 32115 PP	23	PEW 3244 PI	27	PEW 3274 SV	11
PEW 32115 PQ	29	PEW 3244 PP	23	PEW 3275 PI	27
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PEW 32115 SA	19	PEW 3244 PV	13	PEW 3275 PQ	29
PEW 32115 SI	25	PEW 3244 SA	19	PEW 3275 PV	13
PEW 32115 SM	21	PEW 3244 SI	25	PEW 3275 SA	19
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PEW 32123 PI	27	PEW 3244 SV	11	PEW 3275 SM	21
PEW 32123 PP	23	PEW 3245 PI	27	PEW 3275 SV	11
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PEW 32123 PV	13	PEW 3245 PQ	29	PEW 3283 PP	23
PEW 32123 SA	19	PEW 3245 PV	13	PEW 3283 PQ	29
PEW 32123 SI	25	PEW 3245 SA	19	PEW 3283 PV	13
PEW 32123 SM	21	PEW 3245 SI	25	PEW 3283 SA	19
PEW 32123 SV	11	PEW 3245 SM	21	PEW 3283 SI	25
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PEW 3223 PV	13	PEW 3254 PP	23	PEW 3293 PP	23
PEW 3223 SA	19	PEW 3254 PQ	29	PEW 3293 PQ	29
PEW 3223 SI	25	PEW 3254 PV	13	PEW 3293 PV	13
PEW 3223 SM	21	PEW 3254 SA	19	PEW 3293 SA	19
PEW 3223 SV	11	PEW 3254 SI	25	PEW 3293 SI	25
PEW 3224 PI	27	PEW 3254 SM	21	PEW 3293 SM	21
PEW 3224 PP	23	PEW 3254 SV	11	PEW 3293 SV	11
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PEW 3224 SA	19	PEW 3255 PQ	29	PEW 3294 PQ	29
PEW 3224 SI	25	PEW 3255 PV	13	PEW 3294 PV	13
PEW 3224 SM	21	PEW 3255 SA	19	PEW 3294 SA	19
PEW 3224 SV	11	PEW 3255 SI	25	PEW 3294 SI	25
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PEW 3225 PV	13	PEW 3263 PP	23	PEW 3295 PP	23
PEW 3225 SA	19	PEW 3263 PQ	29	PEW 3295 PQ	29
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PEW 3225 SM	21	PEW 3263 SA	19	PEW 3295 SA	19
PEW 3225 SV	11	PEW 3263 SI	25	PEW 3295 SI	25
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PEW 6343 PV	13	PEW 6375 SM	21	PHW 3245 PV	16
PEW 6343 SI	25	PEW 6375 SV	11	PHW 3245 SV	14
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PEW 6344 SI	25	PEW 6383 SV	11	PHW 3293 PV	16
PEW 6344 SM	21	PEW 6393 PI	27	PHW 3293 SV	14
PEW 6344 SV	11	PEW 6393 PP	23	PHW 3294 PV	16
PEW 6345 PI	27	PEW 6393 PQ	29	PHW 3294 SV	14
PEW 6345 PP	23	PEW 6393 PV	13	PHW 3295 PV	16
PEW 6345 PQ	29	PEW 6393 SI	25	PHW 3295 SV	14
PEW 6345 PV	13	PEW 6393 SM	21	PHW 6343 PV	16
PEW 6345 SI	25	PEW 6393 SV	11	PHW 6343 SV	15
PEW 6345 SM	21	PEW 6394 PI	27	PHW 6344 PV	17
PEW 6345 SV	11	PEW 6394 PP	23	PHW 6344 SV	15
PEW 6354 PI	27	PEW 6394 PQ	29	PHW 6345 PV	17
PEW 6354 PP	23	PEW 6394 PV	13	PHW 6345 SV	15
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PEW 6354 PV	13	PEW 6394 SM	21	PHW 6363 SV	15
PEW 6354 SI	23	PEW 6394 SV	11	PHW 6364 PV	17
PEW 6354 SM	21	PEW 6395 PI	27	PHW 6364 SV	15
PEW 6354 SV	11	PEW 6395 PP	23	PHW 6365 PV	17
PEW 6355 PI	27	PEW 6395 PQ	29	PHW 6365 SV	15
PEW 6355 PP	23	PEW 6395 PV	13	PHW 6393 PV	17
PEW 6355 PQ	29	PEW 6395 SI	25	PHW 6393 SV	15
PEW 6355 PV	13	PEW 6395 SM	21	PHW 6394 PV	17
PEW 6355 SI	25	PEW 6395 SV	11	PHW 6394 SV	15
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PEW 6363 SI	25	PHW 12545 SV	15	PN 1664 PI	33
PEW 6363 SM	21	PHW 12563 PV	17	PN 1664 PQ	33
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