

A.T.X.[®] PRE Series 32 Amp Plugs and Sockets

Increased Safety

ATEX/IECEX:
Zone 1 and 2 - 21 and 22
⊕ II 2 GD
IP66 - IK10

NBR IEC:
Zone 1 and 2 - 21 and 22
Ex de IIC Gb
Inmetro (Portaria nº 179)
IP66

Applications

- Plugs and sockets are used with portable or stationery electrical equipment such as:
 - Lighting systems
 - Conveyors
 - Heaters
 - Motor generators
 - Air conditioning equipment
 - Compressors
 - Pumps
- For use in corrosive atmospheres and installations in Zone 1 and 2 and 21 and 22 of the oil and gas industry, such as:
 - Refineries
 - Chemical and petrochemical plants
 - Pipelines
 - Loading docks
 - Onshore and offshore drilling platforms

Features

- Plug and socket system is designed with a safe disconnect mechanism to insure maximum hazardous location protection:
 - The contact separation is in a flameproof chamber
 - The automatic electrical disconnection of each phase is contained in a second flameproof chamber
- Short circuit protection is 20 kA, while normal reference is 10 kA.
- Different voltages are color coded for easy identification.
- The sockets are keyed to accept only ATX plugs (other plugs can not be inserted).
- ATX plugs can be used in non-hazardous sockets.

Standard Materials

- Wall Socket: high impact resistance fiberglass reinforced polyester
- Plug, mobile socket and flush socket: polyamide

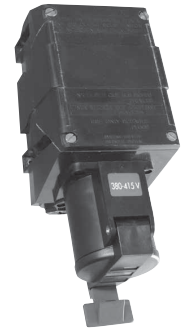
ATEX/IECEX Certifications and Compliances

- Certification Type PCX, PCX/EN
- Gas: Zones 1 and 2
 - Conforming to ATEX 94/9/CE: CE 0081 ⊕ II 2 G
 - ATEX/IEC Protection: Ex de IIC
 - T-Rating: T6 for $T_a \leq +40^\circ\text{C}$ ($+104^\circ\text{F}$) and T5 for $T_a \leq +55^\circ\text{C}$ ($+131^\circ\text{F}$)
 - Ambient Temperature: $-40^\circ\text{C} \leq T_a \leq +55^\circ\text{C}$ ($-40^\circ\text{F} \leq T_a \leq +131^\circ\text{F}$)
 - Impact Resistance (shock): IK10 (Polyester) and IK09 (Polyamide)
- Dust: Zones 21 and 22
 - Conforming to ATEX 94/9/CE: CE 0081 ⊕ II 2 D
 - ATEX/IEC Protection: Ex td A21
 - Surface Temperature: T154 °F/T68 °C
 - Ambient Temperature: $-40^\circ\text{C} \leq T_a \leq +55^\circ\text{C}$ ($-40^\circ\text{F} \leq T_a \leq +131^\circ\text{F}$)
 - Impact Resistance (shock): IK10
- CE Declaration of Conformity: 50228, 5C214
- ATEX Certificate: LCIE 02 ATEX 6068, LCIE 02 ATEX 0001U
- IECEX Certificate: IECEX LCI 04.0014, IECEX LCI 04.0012
- Other Certifications: GOST
- Ingress Protection (solid and liquid): IP66
- Ex Standards: EN/IEC 60079-0; 60079-1; 60079-7; 61241-0; 61241-1
- Product Standards: EN/IEC 60309-1, 60309-2
- Other Standards: EN/IEC 60529 (IP), 62262 (IK)

LV: Low Voltage



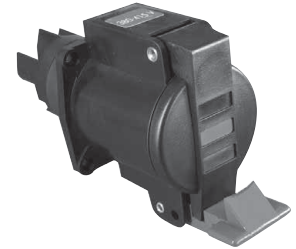
Plug



Wall Mounting Socket



Mobile Socket



Flush Socket

Technical Data

| Breaking Capacity | |
|-------------------|-----------------|
| AC 1 | 32 A – 500 V |
| AC 22 | 11 kW – 220 V |
| | 12 kW – 240 V |
| | 19 kW – 380 V |
| ICC | 20.7 kW – 415 V |
| | 20 kA |

NBR IEC Brazilian Certifications and Compliances

- Certification Type PCX, PCX/EN
- Gas: Zones 1 and 2
- Dust: Zones 21 and 22
- IEC Protection: Ex de IIC Gb; T6 for $T_a \leq +40^\circ\text{C}$ ($+104^\circ\text{F}$) and T5 for $T_a \leq +55^\circ\text{C}$ ($+131^\circ\text{F}$)
- Ambient Temperature: $-40^\circ\text{C} \leq T_a \leq +55^\circ\text{C}$ ($-40^\circ\text{F} \leq T_a \leq +131^\circ\text{F}$)
- Inmetro Certificate: BR230639, BR230598-U
- Ingress Protection (solid and liquid): IP66
- Ex Standards: NBR IEC 60079-0; 60079-1; 60079-7
- Other Standards: NBR IEC 60529 (IP)

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 Inmetro (Portaria nº 179)
 IP66

**Wall Mounting Socket**

- Three M25 threaded entries (one on the top and two on the bottom).
- Supplied with one M25 cable gland – Ø 8 to Ø 18.5 mm (Ø 0.31 to Ø 0.73") and two M25 blanking plugs.
- Terminal capacity 2 x 6 mm² (0.003 x 0.009 in²).
- Fitted with three linked earth terminals.

**Plug**

- One PG21 integrated cable gland – Ø 8 to Ø 18.5 mm (Ø 0.31 to Ø 0.73") for 3P+N+E versions.
- Terminal capacity 6 mm² (0.009 in²).

**Mobile Socket**

- One PG21 integrated cable gland – Ø 8 to Ø 18.5 mm (Ø 0.31 to Ø 0.73") for 2P+E and 3P+E versions.
- One PG29 integrated cable gland – Ø 18 to Ø 25 mm (Ø 0.70 to Ø 0.98") for 3P+N+E versions.
- Terminal capacity 2 x 6 mm² (0.003 x 0.009 in²).

**Flush Socket**

- Terminal capacity 2 x 6 mm² (0.003 x 0.009 in²).

Catalog Numbering Guide – IECEx Internationally Certified Plugs and Receptacles

PRE
 IECEx Series:
 PRE - PRE Series
 Zone 1, 2, 21 and 22
 ATEX / IEC Certified

3
 Pin Configuration:
 3 - 2P+E
 4 - 3P+E
 5 - 3P+N+E

32
 Amps:
 32 - 32A

R
 Equipment:
 P - Plug
 R - Receptacle
 (Wall Mounting)
 M - Mobile Socket
 F - Flush Socket

P
 Voltage:
 Y - 100 - 130 Vac
 50/60 Hz
 B - 200 - 250 Vac
 50/60 Hz
 R - 380 - 415 Vac
 50/60 Hz
 N - 480 - 500 Vac
 50/60 Hz

Catalog Numbering Guide – NBR IEC Brazilian Certified Plugs and Receptacles

N PRE
 NBR IEC Series:
 PRE - PRE Series
 Zone 1, 2, 21 and 22
 NBR IEC Certified

3
 Pin Configuration:
 3 - 2P+E
 4 - 3P+E
 5 - 3P+N+E

32
 Amps:
 32 - 32A

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 Equipment:
 P - Plug
 R - Receptacle
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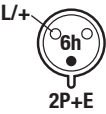
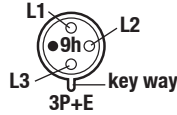

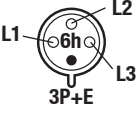
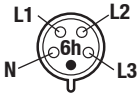

| Yellow | Blue | Red | Black |
|-------------|-------------|-------------|-------------|
| 100/130 Vac | 200/250 Vac | 380/415 Vac | 480/500 Vac |

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IP66

| Description | Pin Configuration | Weight kg (lb) | Volume dm ³ (in ³) | Catalog Number | |
|--------------------------------------|---|----------------|---|----------------|-----------|
| | | | | IECEX | NBR |
| 100/130 Vac 50/60 Hz — Yellow | | | | | |
| Wall Socket |  | 1.9 (4.19) | 7.0 (427.17) | PRE332RY | NPRE332RY |
| Plug | | 0.5 (1.10) | 4.0 (244.09) | PRE332PY | NPRE332PY |
| Mobile Socket | | 0.8 (1.76) | 3.2 (195.28) | PRE332MY | NPRE332MY |
| Flush Socket | | 0.6 (1.32) | 2.7 (164.76) | PRE332FY | NPRE332FY |
| 200/250 Vac 50/60 Hz — Blue | | | | | |
| Wall Socket |  | 1.9 (4.19) | 7.0 (427.17) | PRE332RB | NPRE332RB |
| Plug | | 0.5 (1.10) | 4.0 (244.09) | PRE332PB | NPRE332PB |
| Mobile Socket | | 0.8 (1.76) | 3.2 (195.28) | PRE332MB | NPRE332MB |
| Flush Socket | | 0.6 (1.32) | 2.7 (164.76) | PRE332FB | NPRE332FB |
| Wall Socket |  | 1.9 (4.19) | 7.0 (427.17) | PRE432RB | NPRE432RB |
| Plug | | 0.5 (1.10) | 4.0 (244.09) | PRE432PB | NPRE432PB |
| Mobile Socket | | 0.8 (1.76) | 3.2 (195.28) | PRE432MB | NPRE432MB |
| Flush Socket | | 0.6 (1.32) | 2.7 (164.76) | PRE432FB | NPRE432FB |
| Wall Socket |  | 1.9 (4.19) | 7.0 (427.17) | PRE532RB | NPRE532RB |
| Plug | | 0.5 (1.10) | 4.0 (244.09) | PRE532PB | NPRE532PB |
| Mobile Socket | | 1.0 (2.20) | 4.0 (244.09) | PRE532MB | NPRE532MB |
| Flush Socket | | 0.6 (1.32) | 2.7 (164.76) | PRE532FB | NPRE532FB |
| 380/415 Vac 50/60 Hz — Red | | | | | |
| Wall Socket |  | 2.0 (4.41) | 7.0 (427.17) | PRE432RR | NPRE432RR |
| Plug | | 0.4 (0.88) | 4.0 (244.09) | PRE432PR | NPRE432PR |
| Mobile Socket | | 0.8 (1.76) | 3.2 (195.28) | PRE432MR | NPRE432MR |
| Flush Socket | | 0.6 (1.32) | 2.7 (164.76) | PRE432FR | NPRE432FR |
| Wall Socket |  | 2.0 (4.41) | 7.0 (427.17) | PRE532RR | NPRE532RR |
| Plug | | 0.5 (1.10) | 4.0 (244.09) | PRE532PR | NPRE532PR |
| Mobile Socket | | 1.0 (2.20) | 4.0 (244.09) | PRE532MR | NPRE532MR |
| Flush Socket | | 0.6 (1.32) | 2.7 (164.76) | PRE532FR | NPRE532FR |
| 480/500 Vac 50/60 Hz — Black | | | | | |
| Wall Socket |  | 2.0 (4.41) | 7.0 (427.17) | PRE432RN | NPRE432RN |
| Plug | | 0.4 (0.88) | 4.0 (244.09) | PRE432PN | NPRE432PN |
| Mobile Socket | | 1.0 (2.20) | 4.0 (244.09) | PRE432MN | NPRE432MN |
| Flush Socket | | 0.6 (1.32) | 2.7 (164.76) | PRE432FN | NPRE432FN |

A.T.X.[®] PRE Series 32 Amp Low Voltage Plug and Socket Accessories and

Dimensions

Increased Safety

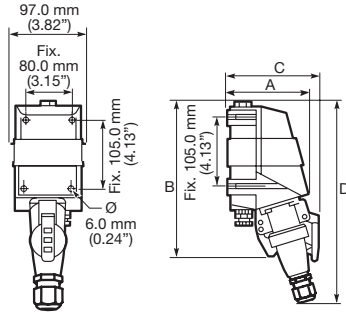
Accessories

| | Description | Catalog Number | |
|--|---|----------------|------------|
| | | IECEX | NBR |
| | M5 earth stud with black neoprene sealing washer and green/yellow earth conductor, length 300 mm (11.8") | PREESTM25 | NPREESTM25 |
| | M20 earth continuity adaptor with black neoprene sealing washer and green/yellow earth conductor, length 300 mm (11.8") | PREECAM25 | NPREECAM25 |

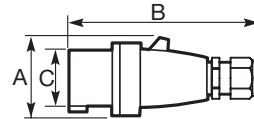
Dimensions

32A – 2P+E – 3P+E – 3P+N+E Versions

Wall Mounting Sockets



Plugs

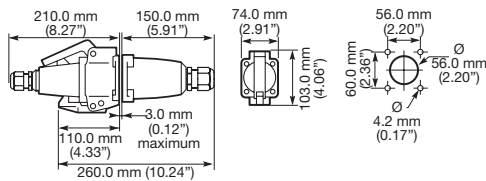


| | Dimensions in Millimeters (Inches) | | | |
|-------------|------------------------------------|---------------|--------------|---------------|
| | A | B | C | D |
| 2 P + E | 140.0 (5.51) | 275.0 (10.83) | 155.0 (6.10) | 370.0 (14.67) |
| 3 P + E | 140.0 (5.51) | 275.0 (10.83) | 155.0 (6.10) | 370.0 (14.67) |
| 3 P + N + E | 140.0 (5.51) | 275.0 (10.83) | 165.0 (6.50) | 375.0 (14.76) |

| | Dimensions in Millimeters (Inches) | | |
|-------------|------------------------------------|--------------|-------------|
| | A | B | C |
| 2 P + T | 80.0 (3.15) | 170.0 (6.69) | 67.0 (2.64) |
| 3 P + T | 80.0 (3.15) | 170.0 (6.69) | 67.0 (2.64) |
| 3 P + N + T | 80.0 (3.15) | 195.0 (7.68) | 74.0 (2.91) |

Mobile Sockets

Can be mounted on panel - 3.0 mm (0.12") thickness maximum



Flush Sockets

