ATX™ PRE Series 16 Amp Plugs and Sockets
Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Applications
- Plugs and receptacles 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 Zones 1 and 2 – 21 and 22 of the oil and gas industry; such as:
  — Refineries
  — Chemical and petrochemical plants
  — Pipelines
  — Loading docks
  — Onshore and offshore drilling platforms
  — LNG Trains
  — Gas Compressor Stations.

Features
- Plug and socket system is designed with a safe disconnect mechanism to ensure 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 receptacles are keyed to accept only ATX plugs (other plugs can not be inserted).
- ATX plugs can be used in non-hazardous IEC 309 sockets.
- Operating temperature of -20 °C to +55 °C (-4 °F to +131 °F)

Standard Materials
- Wall Socket for 2P - 2P+E - 3P: high impact resistance polycarbonate
- Wall Socket for 3P+E - 3P+N+E: high impact resistance fiberglass reinforced polyester
- Plug, mobile socket and flush socket: polyamide

ATEX/IECEx Certifications and Compliances
- Certification Type PCX (Plug, socket and mobile socket)
  — Gas: Zones 1 and 2
    – Conforming to ATEX 2014/34/EU: Ⓔx II 2 G
    – Type of Protection: Ex de IIC
    – Temperature Class: T6 for Ta ≤ +40 °C (+104 °F) and T5 for +55 °C (+131 °F)
  — Dust: Zones 21 and 22
    – Conforming to ATEX 2014/34/EU: Ⓔx II 2 D
    – Type of Protection: Ex tD A21
    – Surface Temperature: T68 °C (T154 °F)
  — Ambient Temperature: -20 °C ≤ Ta ≤ +55 °C (-4 °F ≤ Ta ≤ 131 °F)
  — Index of Protection according EN/IEC 60529: IP66
  — ATEX Certificate: LCIE 02 ATEX 6068
  — IECEx Certificate: IECEx LCI 04.0014
- Certification Type PCX/EN (Flush socket)
  — Gas: Zones 1 and 2
    – Conforming to ATEX 2014/34/EU Ⓔx II 2 G
    – Type of Protection: Ex de IIC
    – Temperature Class: T6 for Ta ≤ +40 °C (+104 °F) and T5 for +55 °C (+131 °F)
  — Dust: Zones 21 and 22
    – Conforming to ATEX 2014/34/EU: Ⓔx II 2 D
    – Type of Protection: Ex tD A21
    – Surface Temperature: T68 °C (T154 °F)
  — Ambient Temperature: -20 °C ≤ Ta ≤ +55 °C (-4 °F ≤ Ta ≤ 131 °F)
  — Index of Protection according EN/IEC 60529: IP66
  — ATEX Certificate: LCIE 02 ATEX 0001U
  — IECEx Certificate: IECEx LCI 07.0012U

Wall Mounting Socket

Technical Data

Breaking Capacity	
AC3	4 kW – 220 V
	4.3 kW – 240 V
	7.5 kW – 380 V
	8.2 kW – 415 V
ICC	20 kA

INMETRO Certifications
- Certification Type: PCX (plugs, mobile sockets and flush sockets)
  — Inmetro Certificate: BVC 11.0639/04
- Certification Type: PCX/EN (wall mounting socket)
  — Inmetro Certificate: BVC11.0598-U/04

ATX™ PRE Series 16 Amp Plugs and Sockets
Increased Safety

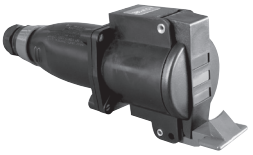
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Wall Mounting Socket

- Three M20 threaded entries (one on the top and two on the bottom).
- Supplied with one M20 cable gland – Ø 5.5 to Ø 14 mm (Ø 0.19 to Ø 0.55") and two M20 blanking plugs.
- Terminal capacity 2 x 4 mm². Can be through-wired.
- Fitted with three linked earth terminals.

Plug

- One PG16 integrated cable gland – Ø 6.5 to Ø 14.5 mm (Ø 0.25 to Ø 0.57").
- Terminal capacity 2.5 mm².



Mobile Socket

- One PG16 integrated cable gland – Ø 6.5 to Ø 14.5 mm (Ø 0.25 to Ø 0.57").
- Terminal capacity 4 mm².

Flush Socket

- Terminal capacity 4 mm².

Catalog Numbering Guide — ATEX/IECEx Internationally Certified Plugs and Receptacles

PRE

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

2

Pin Configuration:
2 - 2P
3 - 2P+E
4 - 3P+E
5 - 3P+N+E
6 - 3P

16

Amps:
16 - 16A

R

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

P

Voltage:
P - 20 - 25 Vac 50/60 Hz
W1 - 20 - 50 Vdc
W - 40 - 50 Vac 50/60 Hz
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
G - 50 - 500 Vac 300 to 500 Hz

ELV: Extra Low Voltage

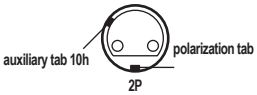
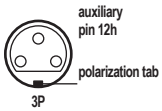
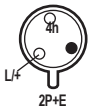
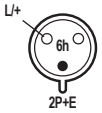
Purple (P)	White (W1)	White (W)
20/25 Vac	20/50 Vdc	40/50 Vac

LV: Low Voltage

Yellow (Y)	Blue (B)	Red (R)	Black (N)	Green (G)
100/130 Vac	200/250 Vac	380/415 Vac	480/500 Vac	50/500 Vac (300 to 500 Hz)

ATX™ PRE Series 16 Amp Plugs and Sockets
Increased Safety

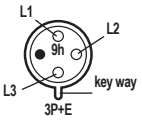
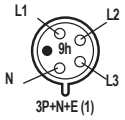
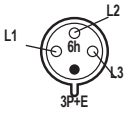
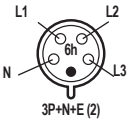
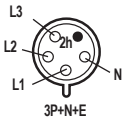
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Description	Pin Configuration	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Extra Low Voltage: ELV				
20/25 Vac 50/60 Hz — Purple				
Wall Socket		0.6 (1.3)	3.8 (231.89)	**PRE216RP**
Plug		0.2 (0.4)	0.6 (361.6)	**PRE216PP**
Mobile Socket		0.4 (0.9)	1.3 (79.33)	**PRE216MP**
Flush Socket		0.2 (0.4)	1.3 (79.33)	**PRE216FP**
Wall Socket		0.6 (1.3)	3.8 (231.89)	**PRE316RP**
Plug		0.2 (0.4)	0.6 (36.61)	**PRE316PP**
Mobile Socket		0.4 (0.9)	1.3 (79.33)	**PRE316MP**
Flush Socket		0.2 (0.4)	1.3 (79.33)	**PRE316FP**
Wall Socket		0.6 (1.3)	3.8 (231.89)	**PRE616RP**
Plug		0.2 (0.4)	0.6 (36.61)	**PRE616PP**
Mobile Socket		0.4 (0.9)	1.3 (79.33)	**PRE616MP**
Flush Socket		0.2 (0.4)	1.3 (79.33)	**PRE616FP**
20/50 Vdc — White				
Wall Socket		0.6 (1.3)	3.8 (231.89)	**PRE216RW1**
Plug		0.2 (0.4)	0.6 (36.61)	**PRE216PW1**
Mobile Socket		0.4 (0.9)	1.3 (79.33)	**PRE216MW1**
Flush Socket		0.2 (0.4)	1.3 (79.33)	**PRE216FW1**
40/50 Vac 50/60 Hz — White				
Wall Socket		0.6 (1.3)	3.8 (231.89)	**PRE216RW**
Plug		0.2 (0.4)	0.6 (36.61)	**PRE216PW**
Mobile Socket		0.4 (0.9)	1.3 (79.33)	**PRE216MW**
Flush Socket		0.2 (0.4)	1.3 (79.33)	**PRE216FW**
Wall Socket		0.6 (1.3)	3.8 (231.89)	**PRE616RW**
Plug		0.2 (0.4)	0.6 (36.61)	**PRE616PW**
Mobile Socket		0.4 (0.9)	1.3 (79.33)	**PRE616MW**
Flush Socket		0.2 (0.4)	1.3 (79.33)	**PRE616FW**
Low Voltage: LV				
100/130 Vac 50/60 Hz — Yellow				
Wall Socket		0.6 (1.3)	3.8 (231.89)	**PRE316RY**
Plug		0.2 (0.4)	0.6 (36.61)	**PRE316PY**
Mobile Socket		0.4 (0.9)	1.3 (79.33)	**PRE316MY**
Flush Socket		0.2 (0.4)	1.3 (79.33)	**PRE316FY**
200/250 Vac 50/60 Hz — Blue				
Wall Socket		0.6 (1.3)	3.8 (231.89)	**PRE316RB**
Plug		0.2 (0.4)	0.6 (36.61)	**PRE316PB**
Mobile Socket		0.4 (0.9)	1.3 (79.33)	**PRE316MB**
Flush Socket		0.2 (0.4)	1.3 (79.33)	**PRE316FB**

ATX™ PRE Series 16 Amp Plugs and Sockets

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Description	Pin Configuration	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Low Voltage: LV				
200/250 Vac 50/60 Hz — Blue				
Wall Socket		1.5 (3.3)	4.7 (286.81)	**PRE416RB**
Plug		0.6 (1.3)	0.6 (361.6)	**PRE416PB**
Mobile Socket		0.6 (1.3)	4.0 (244.09)	**PRE416MB**
Flush Socket		0.2 (0.4)	1.3 (79.33)	**PRE416FB**
Wall Socket		1.6 (3.5)	4.7 (286.81)	**PRE516RB**
Plug		0.3 (0.7)	1.3 (79.33)	**PRE516PB**
Mobile Socket		0.6 (1.3)	4.0 (244.09)	**PRE516MB**
Flush Socket	*(1) 120/208 V - 144/250 Vac 50/60 Hz*	0.2 (0.4)	1.3 (79.33)	**PRE516FB**
380/415 Vac 50/60 Hz — Red				
Wall Socket		1.5 (3.3)	4.7 (286.81)	**PRE416RR**
Plug		0.2 (0.4)	0.6 (361.6)	**PRE416PR**
Mobile Socket		0.6 (1.3)	4.0 (244.09)	**PRE416MR**
Flush Socket		0.3 (0.7)	1.3 (79.33)	**PRE416FR**
Wall Socket		1.6 (3.5)	4.7 (286.81)	**PRE516RR**
Plug		0.3 (0.7)	1.3 (79.33)	**PRE516PR**
Mobile Socket		0.6 (1.3)	4.0 (244.09)	**PRE516MR**
Flush Socket	*(2) 200/346 V - 240/415 Vac 50/60 Hz*	0.3 (0.7)	1.3 (79.33)	**PRE516FR**
480/500 Vac 50/60 Hz — Black				
Wall Socket		1.5 (3.3)	4.7 (286.81)	**PRE416RN**
Plug		0.2 (0.4)	0.6 (361.6)	**PRE416PN**
Mobile Socket		0.6 (1.3)	4.0 (244.09)	**PRE416MN**
Flush Socket		0.3 (0.7)	1.3 (79.33)	**PRE416FN**
50/500 Vac 300/500 Hz — Green				
Wall Socket		1.6 (3.5)	4.7 (286.81)	**PRE516RG**
Plug		0.2 (0.4)	0.6 (361.6)	**PRE516PG**
Mobile Socket		0.6 (1.3)	4.0 (244.09)	**PRE516MG**
Flush Socket		0.3 (0.7)	1.3 (79.33)	**PRE516FG**

Accessories

	Description	Catalog Number
	M5 earth stud with black neoprene sealing washer and green/yellow earth conductor, length 300 mm (11.8")	**PREESTM20**
	M20 earth continuity adaptor with black neoprene sealing washer and green/yellow earth conductor, length 300 mm (11.8")	**PREECAM20**

ATX™ PRE Series 16 Amp Plugs and Sockets

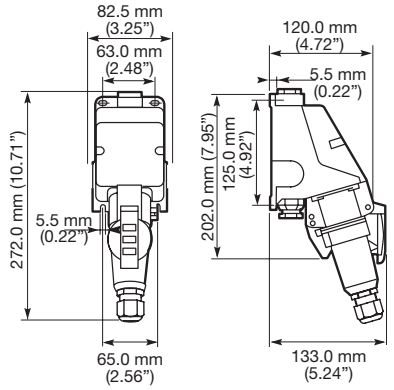
Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

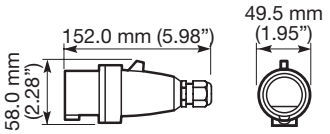
Dimensions in Millimeters (Inches)

16A — 2P — 2P+E — 3P Versions

Wall Mounting Sockets

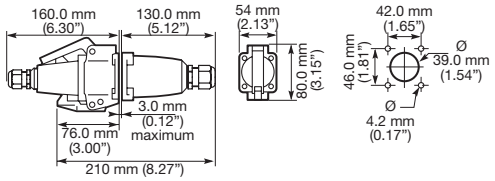


Plugs

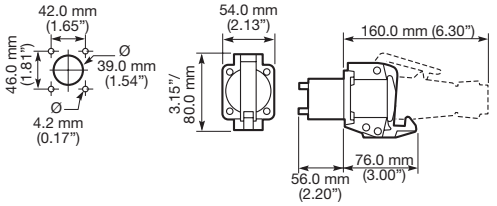


Mobile Sockets

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

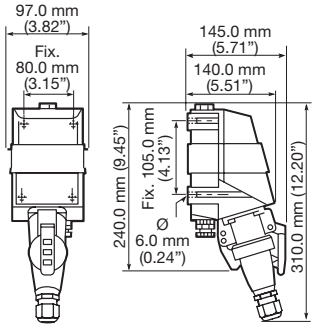


Flush Sockets

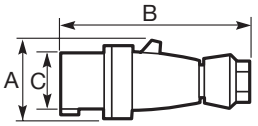


16A — 3P+E — 3P+N+E Versions

Wall Mounting Sockets



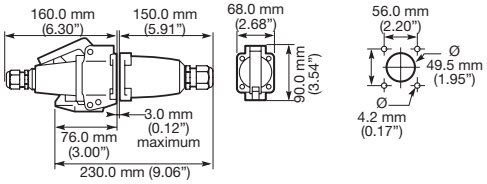
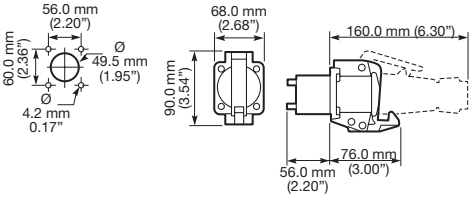
Plugs



	Dimensions in Millimeters (Inches)		
	A	B	C
3 P + E	66.0 (2.60)	154.0 (6.06)	55.5 (2.19)
3 P + N + E	73.0 (2.87)	166.0 (6.54)	62.0 (2.44)

Mobile Sockets

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



Flush Sockets