

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:  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:  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)



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

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 - Type of Protection: Ex de IIC
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 - Conforming to ATEX 2014/34/EU:  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

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

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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	2	16	R	P
Series: PRE - PRE Series Zone 1, 2, 21 and 22 ATEX/IECEX	Pin Configuration: 2 - 2P 3 - 2P+E 4 - 3P+E 5 - 3P+N+E 6 - 3P	Amps: 16 - 16A	Equipment: P - Plug R - Receptacle (Wall Mounting) M - Mobile Socket F - Flush Socket	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

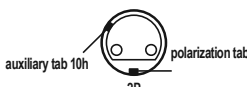
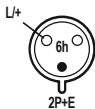
LV: Low Voltage

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)

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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

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Plugs and Receptacles

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

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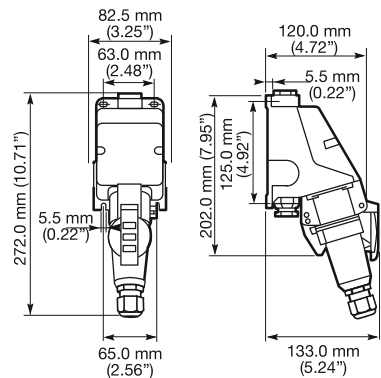
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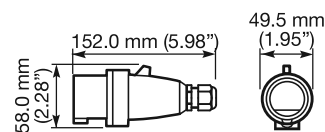
Dimensions in Millimeters (Inches)

16A — 2P — 2P+E — 3P Versions

Wall Mounting Sockets

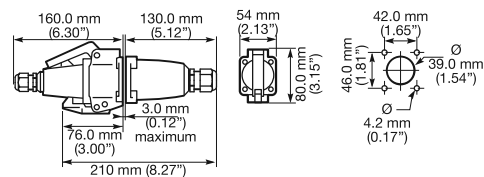


Plugs

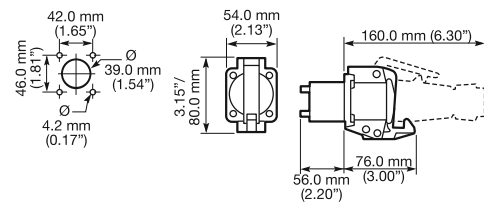


Mobile Sockets

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

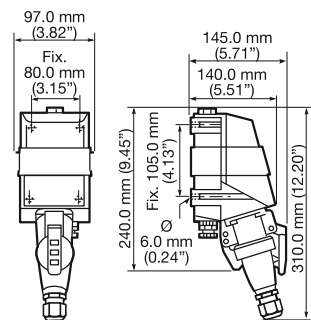


Flush Sockets

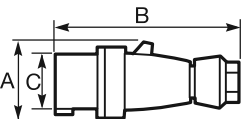


16A — 3P+E — 3P+N+E Versions

Wall Mounting Sockets



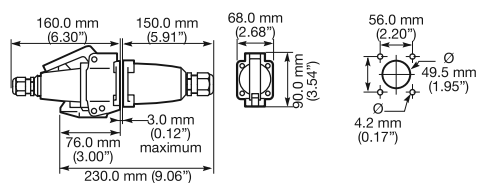
Plugs



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

