PY, SPY Series Sockets and plugs from 16 A to 32 A

PY series sockets are equipped with an interlocked disconnect switch with the plug positioned beneath. The rotary movement together with the closing/opening operations which occur inside a special explosion-proof chamber ensure any explosion in the presence of gas is contained. The electric circuit is connected only after the SPY series plug has been correctly inserted into its seat, and ensures it can only be removed once the electrical circuit has been disconnected. The range includes two pole sockets + earth (PE); three pole sockets + earth (PE) and three pole sockets + neutral + earth (PE), with a current capacities of 16A and reduced overall dimensions, up to a maximum of 32A. Voltages range from 20V to a maximum of 690VAC, with a maximum frequency of 500Hz. These sockets can be used in any environment with a potentially explosive atmosphere, and are manufactured so they cannot be used with industrial type plugs.

Manufacturer applies a tamper-evident holographic security label to its products, complete with a unique authentication numeric code, to combat the illegal sale of imitations and counterfeits, as well as guarantee the authenticity of its products. Failure to observe international standards creates serious risks for the environment and, above all, for the personnel working with the systems on a daily basis.

Sectors of application:

Petroleum refineries | Chemical and petrochemical plants | Onshore facilities | Offshore facilities | Petroleum loading/unloading pontoons | Low temperatures | Fuel storage facilities

CERTIFICATION DATA

Classification:	Group II	Category 2GD			
Installation: EN 60079.14	zone 1 - zone 2 (Gas)	zone 21 - zone 22 (Dust)			
Marking:	CE 0722 Ex II 2 GD Ex d IIC T6 Gb; Ex tb IIIC T76°C Db IP66				
Certificate:	ATEX CESI 14 ATEX 017X				
	IEC Ex CES 11.0011X		For all IEC Ex, INMETRO, TR CU and TR CU certification data, contact comm@antideflagrantigce.com		
	INMETRO DNV 16.0098X				
	TR CU AVAILABLE				
	CCoE AVAILABLE				
Standards:	CENELEC EN 60079-0: 2012, EN 60079-0/A11: 2013, EN 60079-1: 2014, EN60079-31: 2014 and European Directive 2014/34/EU. IEC 60079-0: 2011, IEC 60079-1: 2014, IEC 60079-31: 2013 RoHS Directive 2002/95/EC.				
Temperature class:	76°C (T6)				
Ambient temp.:	-20°C +50°C				
Degree of protection:	IP66				

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PY, SPY Series Sockets and plugs from 16 A to 32 A

PY

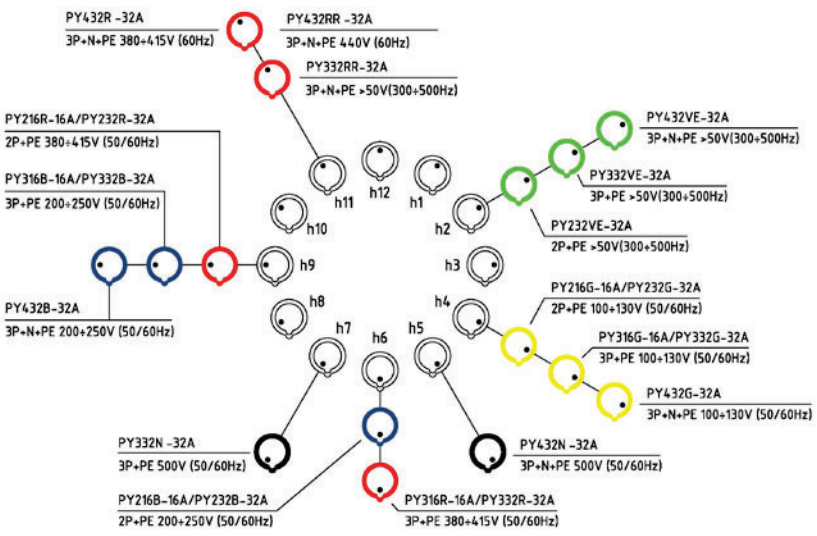
SPY

MECHANICAL FEATURES

Socket body:	Low copper content aluminium alloy, complete with wall fastening lugs and threaded socket closure cap attached to body with a safety chain
Lid:	Screw fastened, aluminium alloy with low copper content. Used to access socket and make electrical connection
Plug:	Low copper content aluminium alloy, complete with colour coded plastic lock rings to identify the mains power supply voltage
Pins:	Nickel-plated brass
Gaskets:	Acid, hydrocarbon and high temperature resistant silicon positioned between the body and the lid
Certificate label:	Adhesive affixed to external surface
Screws:	Stainless steel
Earth screw:	M5 external and internal
Coating:	Polyester RAL 7035 (Light grey)
Threaded entry points:	One upper and one lower Ø 1" or 3/4"
Resistenza alla corrosione:	The STANDARD of the aluminium alloy used by manufacturer has passed the tests required by standards EN60068-2-30 (hot-humid cycles) and EN60068-2-11 (salt fog test)
Safety system:	The sockets have an interlocked disconnect switch with plug. The rotary movement together with the closing/opening operations which occur inside a special explosion-proof chamber ensure any explosion in the presence of gas is contained. The electrical circuit is connected only after the SPY series plug has been correctly inserted into its seat, and ensures it can only be removed once the electrical circuit has been disconnected.

These sockets are unique in that they can be equipped with **SPY series** plugs which can also be used with industrial solder type sockets. This feature is unique to the manufacturer, and is designed to allow the user to keep a limited stock of spare parts compared to competitor sockets which do not have this specification. In fact, the position of the phase and earth pins, together with the coloured lock rings which comply with the colour code required by IEC/EN 60309-2 for industrial sockets and plugs, identify them according to the power supply voltage and current used.

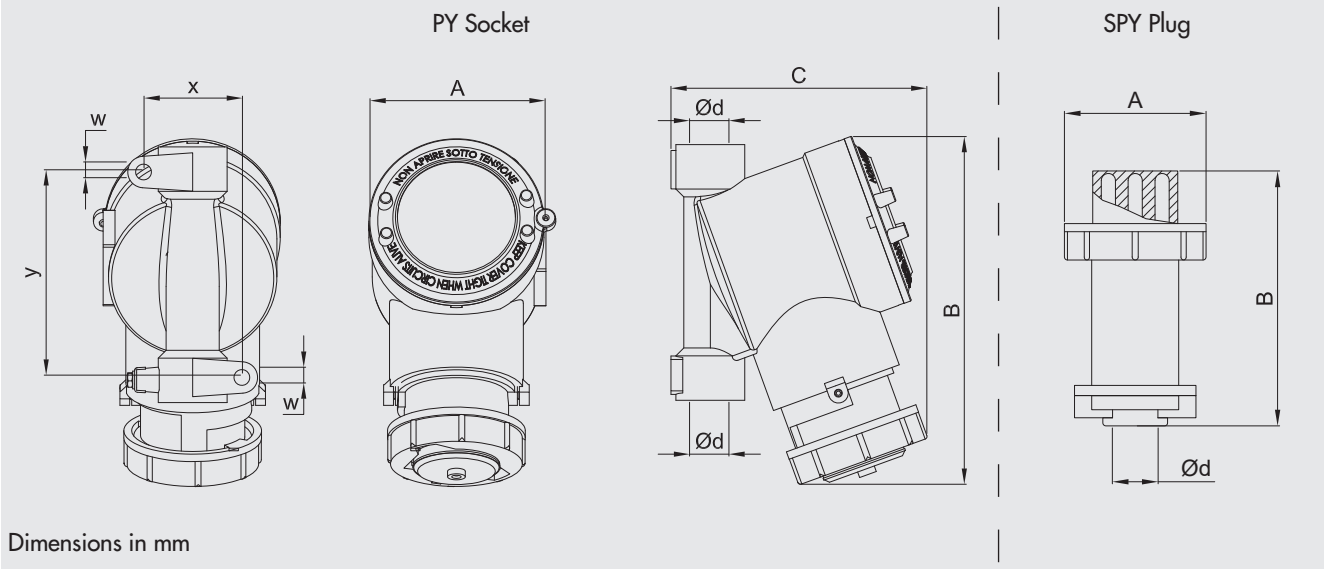
For a better understanding, we have included the earth pin (PE) positioning drawing and relative colours, in compliance with IEC/EN 60309-2, for voltages greater than 50V.



ELECTRICAL FEATURES

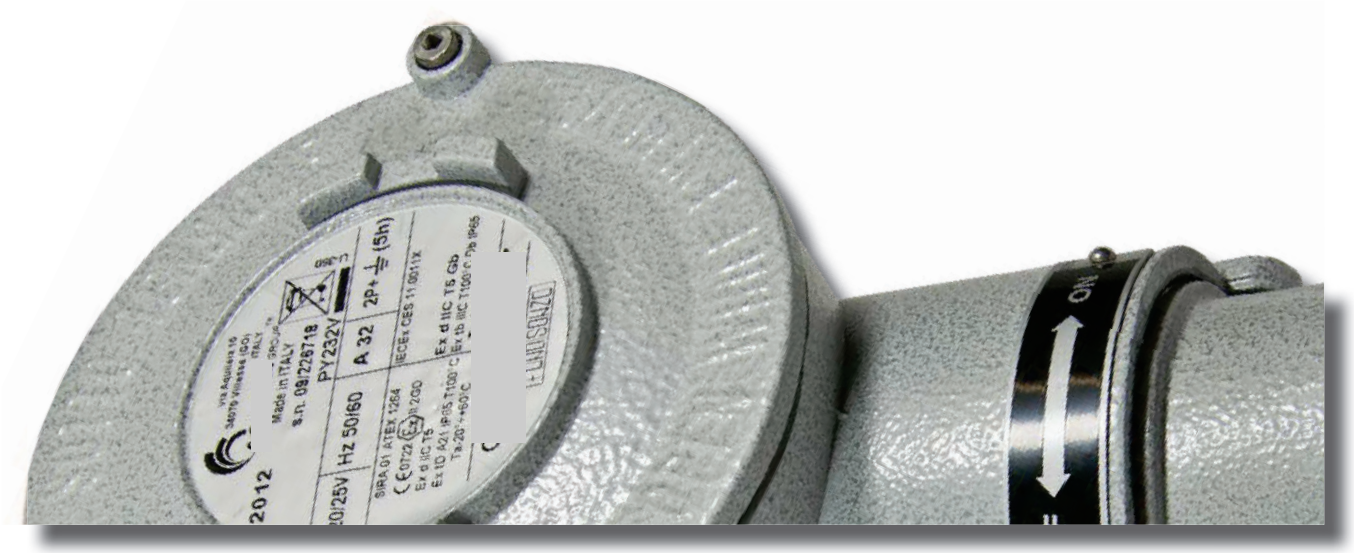
Rated voltage: Max. 690 Vac
Rated frequency: Max. 500 Hz
Rated current: 16A and 32A
Cable entry: no. 2 on the socket and no. 1 on the plug
Max. cable cross-section: for 16A: 4 mm²
for 32A: 6 mm²

DIMENSIONAL DRAWING



Dimensions in mm

MODEL	DIMENSIONS (mm)							WEIGHT (Kg)
	A	B	C	y	x	w	Ø d	
PY..16..	Ø 90	165	135	104	50	8	3/4" ISO7/1	1.7
PY..32..	Ø 120	240	175	140	80	8	1" ISO7/1	2.1
SPY..16..	Ø 66	116	-	-	-	-	3/4" ISO7/1	0.3
SPY..32..	Ø 92	145	-	-	-	-	1" ISO7/1	0.6



PY, SPY Series Sockets and plugs from 16 A to 32 A

CODE SELECTION TABLE

RATED CURRENT	NUMBER OF POLES	FREQUENCY Hz	RATED VOLTAGE Vac	ARRANGEMENT	WEIGHT (Kg)	SOCKET CODE	PLUG CODE
16 A	2P + ⏚	50 / 60	200 / 250	6h	1.70	PY216B	SPY216B
	2P + ⏚	50 / 60	100 / 130	4h	1.70	PY216G	SPY216G
	2P + ⏚	50 / 60	20 / 25	5h	1.70	PY216V	SPY216V
	2P + ⏚	50 / 60	380 / 415	9h	1.70	PY216R	SPY216R
	2P + ⏚	50 / 60	40 / 50	12h	1.70	PY216BI	SPY216BI
	3P + ⏚	50 / 60	200 / 250	6h	1.70	PY316B	SPY316B
	3P + ⏚	50 / 60	100 / 130	4h	1.70	PY316G	SPY316G
	3P + ⏚	50 / 60	20 / 25	5h	1.70	PY316V	SPY316V
	3P + ⏚	50 / 60	380 / 415	6h	1.70	PY316R	SPY316R
32 A	2P + ⏚	50 / 60	200 / 250	6h	2.10	PY232B	SPY232B
	2P + ⏚	50 / 60	40 / 50	12h	2.10	PY232BI	SPY232BI
	2P + ⏚	50 / 60	100 / 130	4h	2.10	PY232G	SPY232G
	2P + ⏚	50 / 60	380 / 415	9h	2.10	PY232R	SPY232R
	2P + ⏚	50 / 60	20 / 25	5h	2.10	PY232V	SPY232V
	2P + ⏚	50 / 60	50	2h	2.10	PY232VE	SPY232VE

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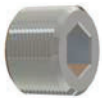
CODE SELECTION TABLE

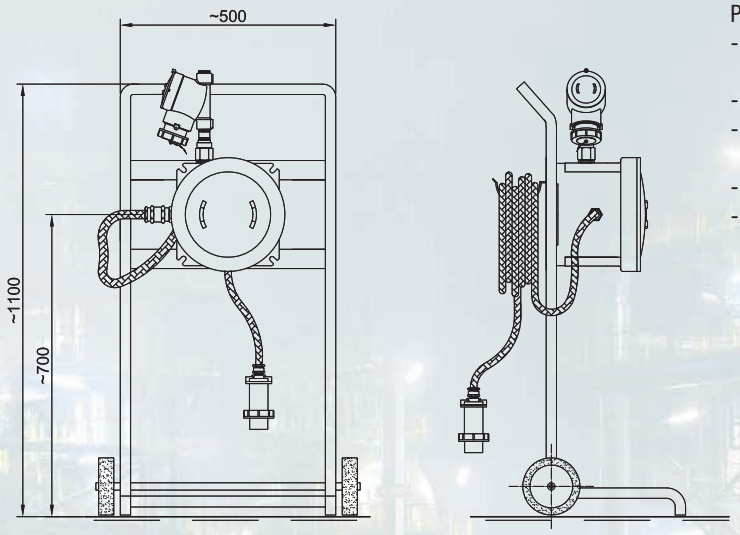
RATED CURRENT	NUMBER OF POLES	FREQUENCY Hz	RATED VOLTAGE Vac	ARRANGEMENT	WEIGHT (Kg)	SOCKET CODE	PLUG CODE
32 A	3P + ⏚	50 / 60	200 / 250	 9h	2.10	PY332B	SPY332B
	3P + ⏚	50 / 60	100 / 130	 4h	2.10	PY332G	SPY332G
	3P + ⏚	50 / 60	500	 7h	2.10	PY332N	SPY332N
	3P + ⏚	50 / 60	380 / 415	 6h	2.10	PY332R	SPY332R
	3P + ⏚	50 / 60	440	 11h	2.10	PY332RR	SPY332RR
	3P + ⏚	50 / 60	20 / 25	 5h	2.10	PY332V	SPY332V
	3P + ⏚	50 / 60	50	 2h	2.10	PY332VE	SPY332VE
	3P + N + ⏚	50 / 60	200 / 250	 9h	2.10	PY432B	SPY432B
	3P + N + ⏚	50 / 60	100 / 130	 4h	2.10	PY432G	SPY432G
	3P + N + ⏚	50 / 60	500	 7h	2.10	PY432N	SPY432N
	3P + N + ⏚	50 / 60	380 / 415	 6h	2.10	PY432R	SPY432R
	3P + N + ⏚	50 / 60	440	 11h	2.10	PY432RR	SPY432RR
	3P + N + ⏚	50 / 60	50	 2h	2.10	PY432VE	SPY432VE

Features comply with CEI EN 60309-1/60309-2

PY, SPY Series Sockets and plugs from 16 A to 32 A

ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	LEGEND
	Cable gland	3/4" ISO 7/1 or 1" ISO 7/1	Material: nickel-plated brass std. cable range 11 to 20	**NAV2B** **NAV3B**	ACCESSORIO RECAMBIO
	Cap	3/4" ISO 7/1 or 1" ISO 7/1	Material: nickel-plated brass	**PLG2B** **PLG3B**	ACCESSORIO RECAMBIO
	Rotary disconnect switch	PY216	2P+T 16A 690V	**A2-10E/S**	RICAMBIO
		PY232	2P+T 32A 690V	**A2-32E/A**	
		PY316	3P+T 16A 690V	**A3-10E/S**	
		PY332	3P+T 32A 690V	**A3-32E/A**	
		PY432	3P+N+T 32A 690V	**A4-32E/A**	
	Coloured ring with bayonet connection	SPY216...	The rated voltage or frequency of each plug is identified by its colour	**M16-523/...**	RICAMBIO
		SPY316...		**M16-751/...**	
		SPY332...		**M32-523/...**	
		SPY432...		**M-766/...**	
	Coloured cap with bayonet connection and safety chain to prevent losing cap	SPY216...	The rated voltage or frequency of each plug is identified by its colour	**M16-543/...**	RICAMBIO
		SPY316...		**M16-750/...**	
		SPY332...		**M32-543/...**	
		SPY432...		**M-767/...**	

Special application - portable socket and plug



Portable socket comprised of:
- CCA-03E housing with internal frame and pre-installed 230/110V terminals and transformer
- PY-216G socket, 110V, 1P+N+T
- SPY-216B plug, 230V, 1P+N+T complete with 30 m of 3G2.5 cable
- SPY-216G plug, 110V, 1P+N+T
- easy to use, powder coated steel trolley