



PC.... Series



PD.... Series



PCL....Series



P9C.... and P11C.... Series



DESCRIPTION

The cables of this series are suitable for the connection of the high voltage output of ignition transformers to ignition electrodes, as well as for the connection of flame detection electrodes (also manufactured by BRAHMA).

The cables can be supplied with various lengths and types of terminals (on this subject, see paragraph CONSTRUCTION CHARACTERISTICS).

CHARACTERISTICS

The main features of high voltage cables are the following:

- Operating temperature range: up to 270°C
- Cable insulation voltage (IEC 60-1): 20 kV impulsive
- **Protection rating:** IP00
- **EMC resistor:** 1 k Ω , 2.7 k Ω , 4.7 k Ω
- Suitable for use with:

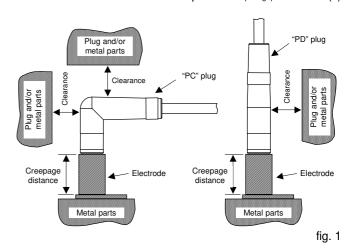
gaseous fuels (1st, 2nd and 3rd family), hydrocarbons (light and heavy oils) and operating temperatures up to 270°C

DIRECTIONS FOR INSTALLATION

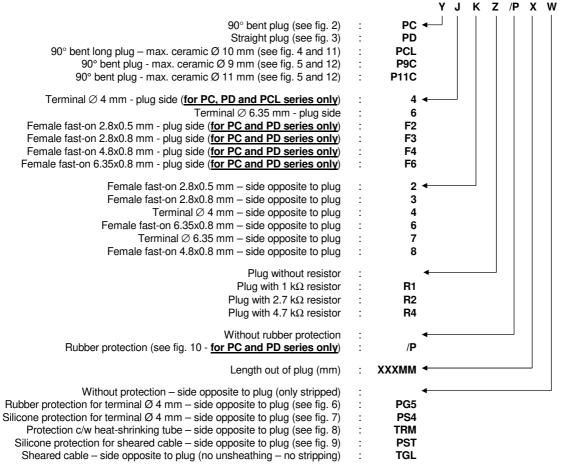
After fixing the **Spark Gap** (for example 3 mm), the **Min. Clearance and Creepage distances** (see examples "**PC**" and "**PD**" series, fig. 1) must be calculated as follows:

- Clearance distance 3 times the spark gap
 - example: 3 x 3_{spark gap}= 9 mm (*)
- Creepage distance 6 times the spark gap

example: $6 \times 3_{\text{spark qap}} = 18 \text{ mm (*)}$

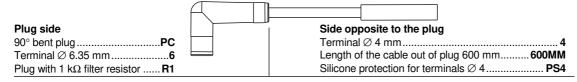


* BRAHMA declines any responsibility for any improper use of the devices.



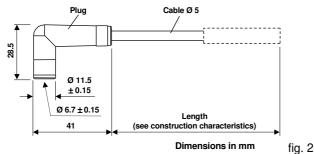
Note: F2, F3, F4 and F6 (plug side) are not standard versions.

For example, the designation "PC64R1 600MM PS4" refers to a cable with the following features:

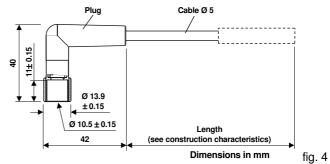


DIMENSIONS

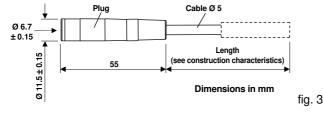
• Cable with 90° bent plug: PC



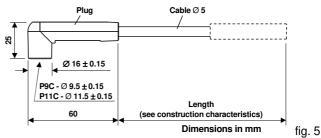
• Cable with 90° bent long plug: PCL



• Cable with straight plug: PD



Cable with 90° bent plug: P9C and P11C



2/3 7601_r07

PROTECTIONS (side opposite to the plug)

Rubber protection: PG5

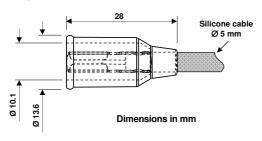


fig. 6

Silicone protection for terminals Ø 4 mm: PS4

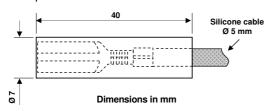


fig. 7

Protection with heat-shrinking tube: TRM

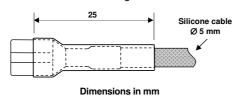


fig. 8

Silicone protection for sheared cable: PST

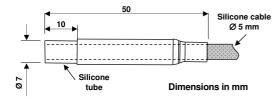


fig. 9

ACCESSORIES

When the cables are used with BRAHMA electrodes with a ceramic diameter of 8 and 10mm, and the creepage distance mentioned in paragraph "DIRECTIONS FOR INSTALLATION" cannot be respected, it is possible to fit **PC** and **PD** plugs with a rubber protection "/**P**" enabling to reduce the declared min. creepage distance (see fig. 1).

Rubber protection: /P

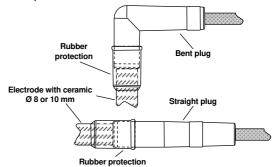
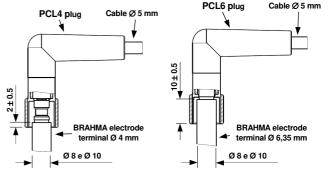


fig. 10

 Application examples of cables with plug type "PCL" used with BRAHMA electrode series "ALV", "SALV" and "S2ALV" with terminal Ø4mm and Ø6,35mm:



Dimensions in mm

fig. 11

 Application examples of cables with plug type "P9C" and "P11C" used with BRAHMA electrode series "ALV", "SALV" and "S2ALV" with terminal Ø 6,35 mm:

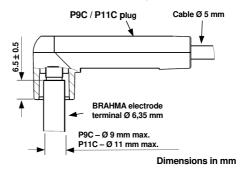


fig. 12



NOTES ABOUT PRODUCT DISPOSAL

Electrodes cannot be disposed of as normal household waste. For the disposal procedure please refer to the local rules in force for special waste.

ATTENTION -> Company Brahma S.p.A. takes no responsibility for any damage resulting from Customer tampering with the product.

BRAHMA S.p.A.

Via del Pontiere, 31/32 37045 Legnago (VR) – ITALY Tel. +39 0442 635211 – Fax +39 0442 25683 http://www.brahma.it E-mail: brahma@brahma.it

05/07/2018 subject to amendments without notice

7601 r07