RADIUS Systems

Maximum fusion integrity for the longevity of your pipeline

With over 45 years expertise in the innovation, design and manufacture of polyethylene (PE) pipeline systems, Radius Systems have established a proven track record of delivering state-of-the-art pipe and fittings solutions for our customers' pipeline infrastructure. For decades, PE has been the material of choice for new installations and the rehabilitation of gas and water networks, as PE pipe systems offer a fully welded solution, which is lightweight, easy to install and corrosion free. When correctly designed and installed, the life expectancy of PE pipelines is over 100 years.

A technologically advanced solution

Specifically designed for ease of assembly and to provide optimum efficiency during the welding process, our range of universal black electrofusion fittings offers specifiers and installers a high performance jointing solution for their whole polyethylene pipeline.

Designed for natural and suitable manufactured gases, drinking water and wastewater polyethylene pipelines, our range of electrofusion fittings are made from high strength black PE100, with exposed wire technology offering maximum heat transfer and distribution during the welding process. For ease of installation our socket fittings are manufactured with insertion stops to ensure the pipe is fully engaged into the fitting during assembly.

Manufactured in our ISO 9001:2015 and OHSAS 18001:2007 accredited facilities, our electrofusion fittings are extensively tested in our dedicated laboratories and approved to the most stringent national, international or in-house specifications, providing the assurance of a high performance fitting solution for your pipeline.

Features & Benefits

- A range of universal fittings suitable for gas, water and wastewater applications
- Manufactured from high strength polyethylene
- Exposed wire technology for maximum heat transfer during the fusion process
- Patented Easigrip® technology for large diameter fittings for ease of handling during installation
- Simultaneous socket fusion for all fittings
- Barcode technology - for electrofusion control unit programming and fitting traceability
- Corrosion resistant
- End-load bearing jointing system

Approvals*

Gas

- BS EN 1555-3 - KM 596928
- GIS/PL2:4 - KM 538462
- DVGW GW 335-B2
- MPA Darmstadt - K 1598/12.2014

Water and wastewater

- BS EN 12201-3 - KM 597648
- WRAS approved material
- DVGW GW 335-B2
- MPA Darmstadt - K 1597/12.2014

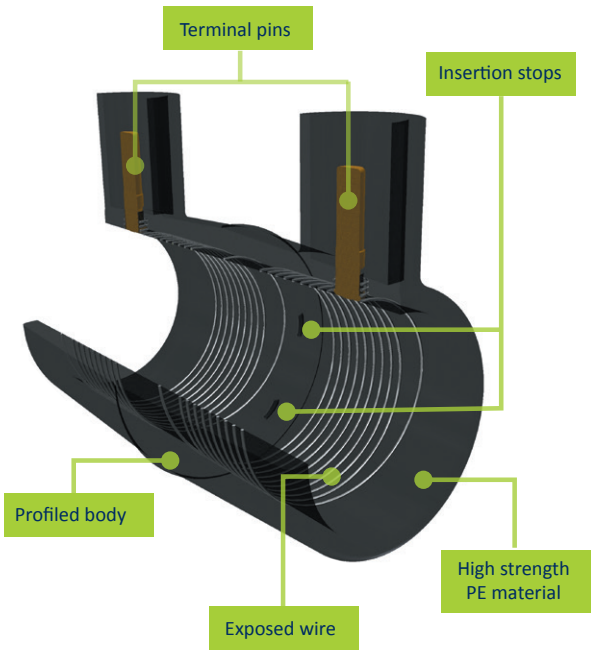
*Contact Radius Systems for specific fitting approval

DV-8601BN0126
DV-8601BN0127
DV-8611BN0627

Innovative fitting solutions

Technological and manufacturing know-how

Our extensive industry knowledge in the design and manufacture of electrofusion fittings means that we are continually developing smarter solutions that help bring installation time savings and efficiencies. We work closely with our customers to bring to market innovative and technologically advanced fittings that offer maximum joint integrity, are easy to install and are robust in operation.



Electrofusion fittings maximum operating pressure (MOP)

Our electrofusion fittings are tested for use with PE80 and PE100 pipes in a wide range of SDRs, with MOP in accordance with national and international specifications:

•European gas specification	BS EN 1555-3 up to 10 bar
•UK gas specification	GIS/PL2:4 up to 5.5 bar or 7 bar
•European water specification	BS EN 12201-3 up to 16 bar

Due to our extensive offering, some fittings within our range may have a lower maximum operating pressure. For the most up to date pressure ratings, product approval and welding compatibility, please refer to the fitting's packaging or contact Radius Systems for more information.

- Exposed wire technology for optimum heat transfer between the fitting and the pipe during the electrofusion process
- Available with 4.0 (40 Volt) and 5.7 mm (80 Volt) terminal pin connections to suit market requirements
- Manufactured from high strength PE for increased fitting integrity
- Profiled body for optimum material usage
- Welding and traceability barcode technology