

## Pipe, Fittings and Pipe Joints for Underground Fire Service Mains

Underground fire service mains are made from many different materials. Cast iron, ductile iron, stainless steel pipe, Polyvinyl Chloride (PVC), Polyethylene (PE), and Fiber Reinforced Composite (FRP of Fiberglass) pipe and fittings are acceptable when they are FM Approved.

Installation of these products should conform to FM Global Property Loss Prevention Data Sheets.

### Polyethylene Pipe and Fittings

Polyethylene pipe should be installed and anchored according to the pipe manufacturer's instructions and FM Global Property Loss Prevention Data Sheets. For underground use only.

Nominal pipe size is the approximate outside diameter of the pipe. Refer to manufacturer's catalog for pipe inside diameter.

### Polyethylene Pipe and Fittings

<i>Product Designation</i>	<i>O.D., Pipe Size, mm</i>	<i>Pressure Rating, bar (psi)</i>	<i>Remarks</i>
Spigot Fittings for Electrofusion, PE100, SDR 11			
WAVIN 45° Elbow	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	12	a, b, c
WAVIN 90° Elbow	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	12	a, b, c
WAVIN Equal Tee	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	12	a, b, c
WAVIN Reducer	110/90, 125/90, 125/110, 160/90, 160/110, 160/125, 180/125, 180/160, 200/160, 200/180, 225/160, 225/180, 225/200, 250/160, 250/200, 250/225, 280/250, 315/200, 315/225, 315/250	12	a, b, c
WAVIN End Cap	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	12	a, b, c
WAVIN Flange Adaptor	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	12	a, b, c

#### Remarks:

- Spigot fittings only to be used with electrofusion fittings.
- The manufacturer's electro-fusion welding instructions must be strictly adhered to for a proper joint.
- The fittings are manufactured of injection molded PE100.

<i>Product Designation</i>	<i>O.D., Pipe Size, mm</i>	<i>Pressure Rating, bar (psi)</i>	<i>Remarks</i>
Electrofusion Fittings, PE100, SDR 11			
WAVIN Coupler	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	12	a, b, c
WAVIN Branch Saddle	90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315	12	a, b, c

#### Remarks:

- Dimensions refer to the pipe outside the diameter. The pipe fits into a socket in the fitting, and when electrical current is applied to the terminal, which is integral with the fitting, the joint is complete.
- The manufacturer's electro-fusion welding instructions must be strictly adhered to for a proper joint.
- The fittings are manufactured of injection molded PE100.

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<b>Certification Type:</b>	FM Approved

