

**PE-RT BARRIER PIPE**



PE-RT BARRIER PIPE

**Product Features**

16 x 1.8mm and 20 x 2 mm. Three layer barrier pipe constructed of polyethylene of raised temperature (PE-RT) inner layer and an EVOH outer layer. For Heating applications only. Maximum operating temperature 95°C at 8 bar. 16 x 1.8mm supplied in 100, 240m and 500m coils and 20 x 2mm in 500m coils.

**Features and Benefits**



Supplied in 100m, 240m and 500m coils the PE-RT three-layer barrier pipe can run directly from the flow manifold to the return in a continuous loop, eliminating the need for joints in the floor and minimizing the risk of potential leaks



Lightweight, flexible, easy to bend and secure into place for easy installation.



PE-RT pipe has an inner layer of PE-RT (Polyethylene of Raised Temperature) and an adhesive layer a EVOH (Ethylene Vinyl-Alcohol Resin) outer layer). The EVOH layer prevents oxygen penetration in a heating system which reduces corrosion within the system thus reducing premature failing of system components



A wide range of complementary accessories to ensure trouble-free fitting, including Monoblocco pipe connectors, floor insulation, mounting rail, pipe staples, tacker guns and bend supports.

# Technical Data Sheet

## PE-RT BARRIER PIPE

General	
Pipe range nominal dimensions	16mm x 1.8mm & 20mm x 2mm
Colour	Natural
Coil sizes	16 x 1.8mm 100m, 240m, 500m & 20 x 2mm 500m
Application Class	Pressure / Temperature
1	8 bar / 60°C
2	8 bar / 80°C
4	8 bar / 70°C
5	6 bar/ 95°C
Maximum working temperature	95°C
Maximum operating pressure	8 bar
Construction	3 layer: PE-RT - Adhesive Layer - EVOH (Ethylene Vinyl-Alcohol Resin)
Mechanical properties	
Pipe roughness	0.007mm
Bending radius	5 x D = 80mm
Water capacity	16mm - 0.12 l/m
Thermal properties	
Thermal conductivity	0.35 W/m°C
Thermal expansion coefficient	1.8x10 <sup>-4</sup> m/m°C
Linear Coefficient	0.026 mm/m°K
Standards	
Manufacturing	ISO 22391 Application class 4/5
Quality Assurance	ISO9001 : 2015

### Monoblocco connector for PE-RT, nickel-plated



Description	Thread	Pcs/Pack	Code
16 x 1.8	24x19	1	6239R916

### PE-RT Barrier Pipe



Description	Coils	Code
16 x 1.8	100	U9530063
16 x 1.8	240	U9530064
16 x 1.8	500	U9530065
20 x 2	500	U9530075