egeplast

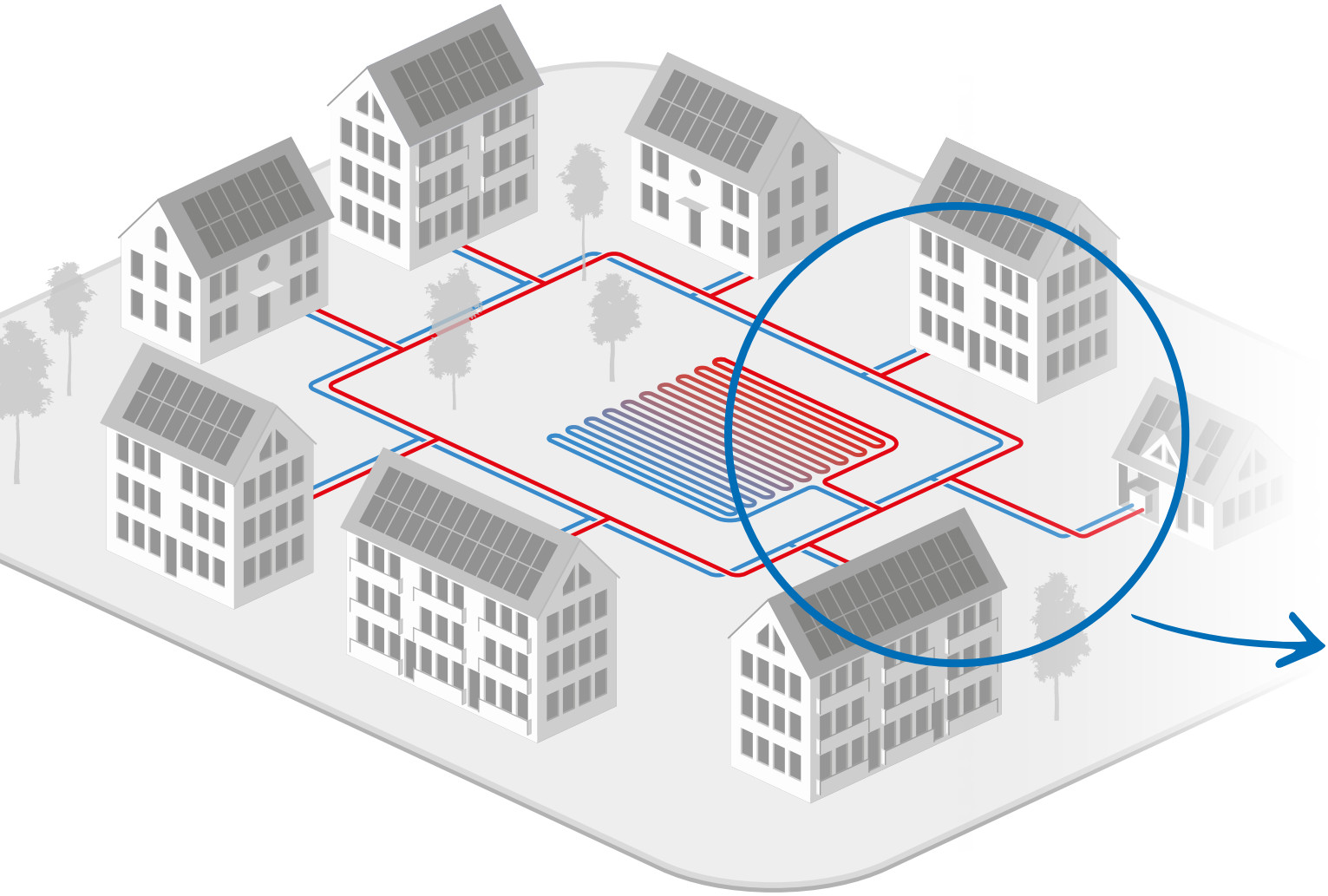
egeplast Pipe Systems for 5th Generation District Heating and Cooling Networks



5th Generation District Heating and Cooling Networks (short: 5th GDHC) provide buildings and industrial estates with an optimum and future-oriented solution both from the ecological as well as economical perspective. It allows for providing end consumers with both heat and cold while generating relatively low transmission temperatures via a single grid. Using this principle, different heat sources – for example industrial waste heat or renewables such as geothermal and solar thermal energy – can be combined and harnessed for heat supply even in densely populated areas via decentralised heat pumps.

The egeplast product range offers pipe systems specifically matched to applications related to 5th GDHC and characterized by high operational security and a long life cycle.





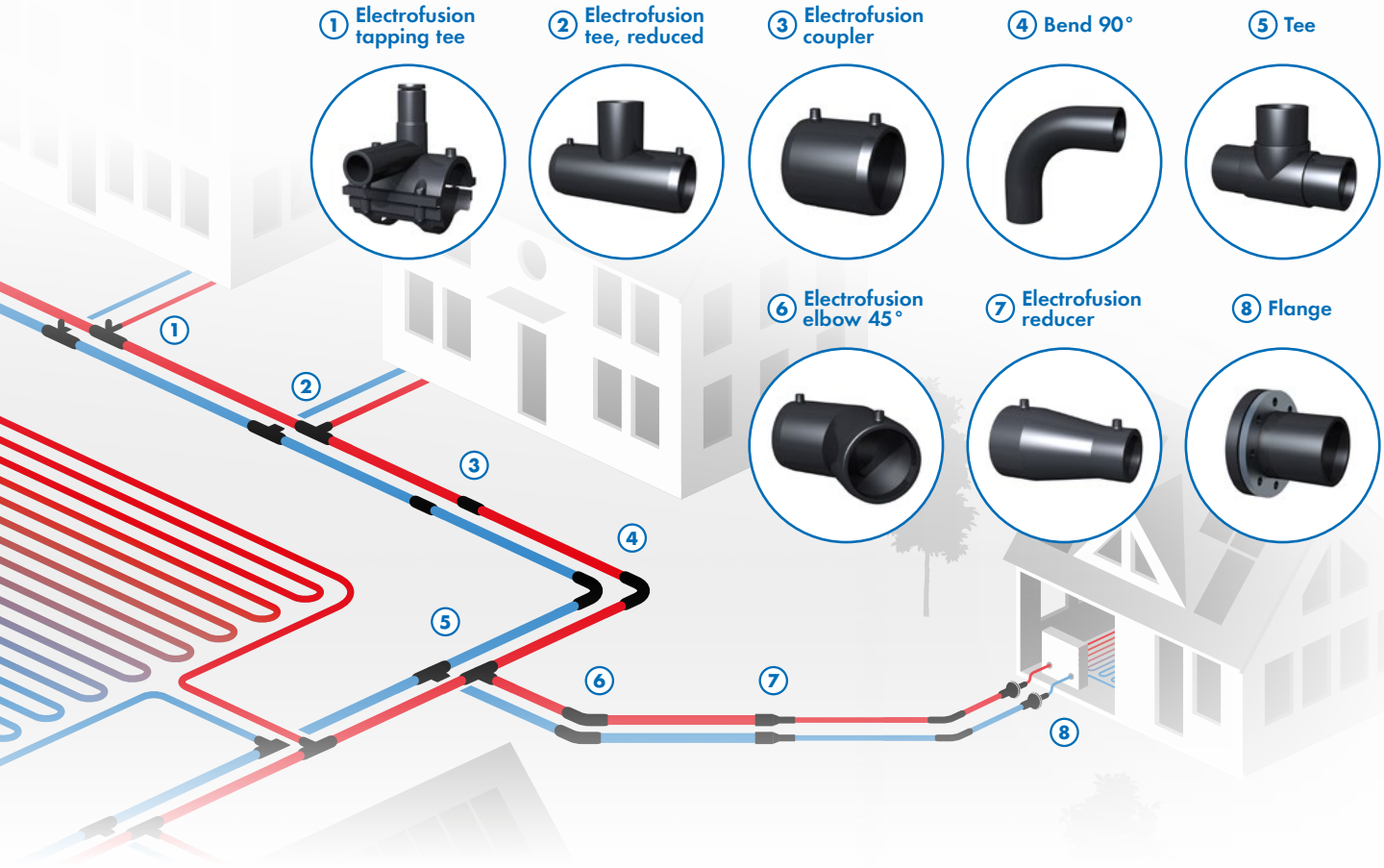
Advantages of PE pipes for applications in 5th Generation District Heating and Cooling Networks

- GLow weight
- Noncorrosiveness
- High flexibility
- Fast and cost-effective installation
- Homogeneous joining technology by welding
- Maintenance-free operation
- Long life cycle
- Solid temperature stability
- Excellent chemical stability

Product data:

Outer diameter	OD 32 – 250 mm
SDR	SDR 11 | 17 (more upon request)
Application	5th Generation District Heating and Cooling Networks
Pipe design / finish	Pressure pipe, black PE 100 RC | red stripes feed line | green stripes return line
Product features	Operating temperatures of up to 40° C
Labelling	Coloured meter marking | Executed as an embossed marking (others upon request)
Delivery forms	Sticks of 6, 12 or 20 m | Coils of 100 m | other lengths upon request
Product standards	DIN 8074/75
Regulations / Installation and processing guidelines	DVGW W 400 | DVS 2207-1 | DIN EN 805 | DIN 4124 | egeplast Processing Guidelines

Fittings made of PE 100-RC



As system providers for piping systems, our product range not only comprises the matching fittings such as electrofusion fittings or flow-efficient seamless bends for 5th GDHC Networks – instead, we also expanded the system of pipes for 5th GDHC applications. Thus, egeplast also offers protective pipe systems for trenchless installation or pipe systems with leakage-monitoring for 5th GDHC applications.

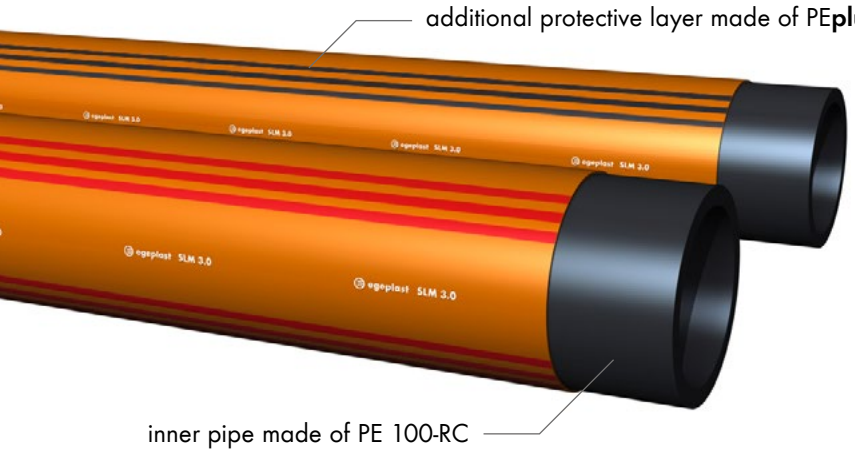
Electrofusion fittings made of PE 100-RC, OD 32 up to OD 250

Designation	SDR 11	SDR 17
Electrofusion couplers	OD 32 – 250	OD 32 – 250
Electrofusion elbow 45°	OD 32 – 250	–
Electrofusion elbow 90°	OD 32 – 250	–
Equal electrofusion tee	OD 32 – 250	–
Reduced electrofusion tee	OD 32 – 250	–
Electrofusion reducer	OD 32 – 250	–
Electrofusion end cap	OD 32 – 250	–
Electrofusion tapping tee	OD 63 – 250	–

Spigot fittings made of PE 100-RC, OD 32 up to OD 250

Designation	SDR 11	SDR 17
Seamless bend 11° bis 90°	OD 90 – 250	OD 90 – 250
Branches 45°	OD 90 – 250	OD 90 – 250
Equal tee 90°	OD 90 – 250	OD 90 – 250
Reduced tee 90°	OD 90 – 250	OD 90 – 250
End cap	OD 90 – 250	OD 90 – 250
Flange	OD 90 – 250	OD 90 – 250
Pipe junction	OD 32 – 50	–

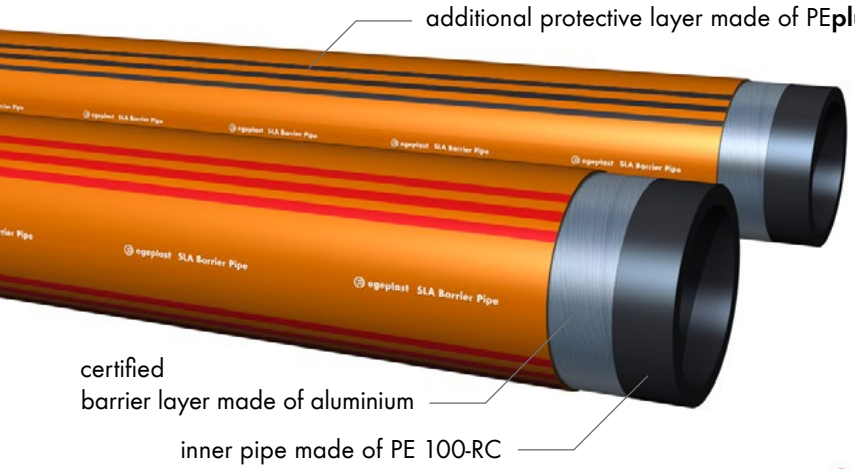
Range of options offered by egeplast for pipelines supplying 5th Generation District Heating and Cooling Networks:



SLM® 3.0

Protective piping system for damage-free installation

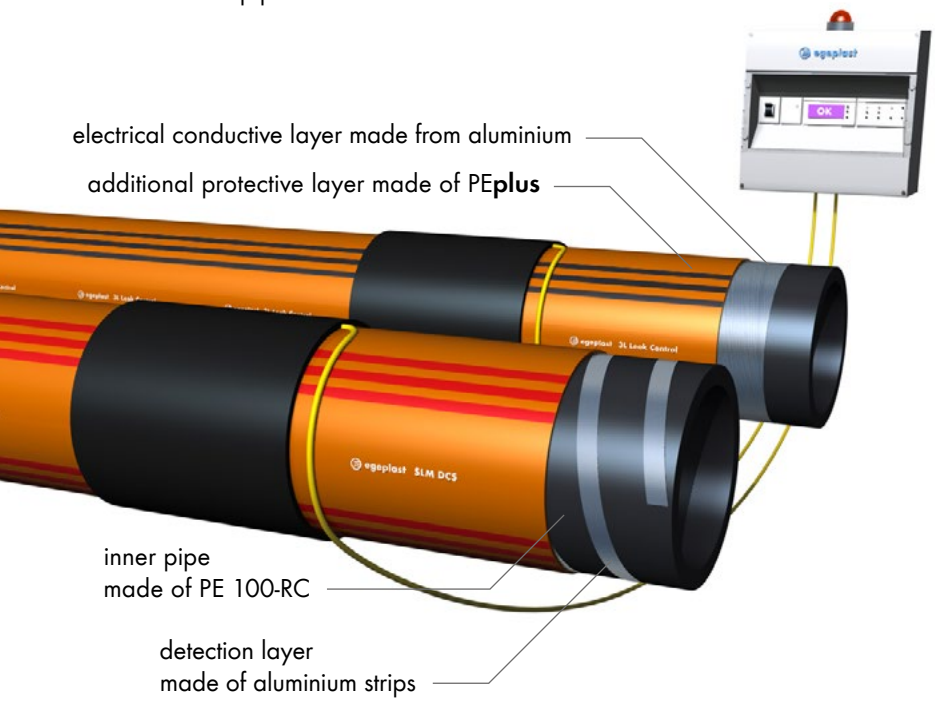
- Pressure pipe system made of PE 100-RC with an additional protective layer
- Patented, multi-layer protective piping system
- For trenchless installation



SLA® Barrier Pipe

Impermeable to protect the environment

- Piping system made of PE 100-RC with an additional protective layer and a metallic barrier layer
- Permanent protection of the environment
- Possibility of detection



3L Leak Control SLM® DCS piping system

Permanently monitored piping system able to detect and report damages

- 100 percent leakage monitoring for soil and water protection
- Able to report and locate damages – even without on-grid electricity
- Core tube made of PE 100-RC
- Alarm even in the event of minor damages to the pipe

Source sustainability: www.egeplast.de/en/sustainability

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