

MAGNUM Tube Underfloor heating tube

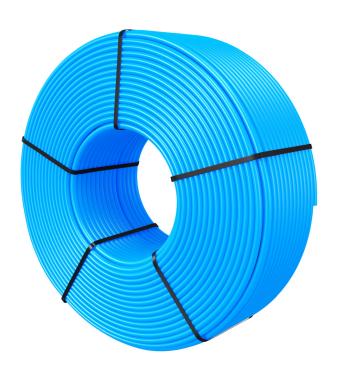
The MAGNUM Tube, floor heating tube, is made of a PE-RT type I and stands for Polyethylene Raised Temperature. This makes the tube also suitable for high temperatures.

PE-RT type I is strong and yet flexible. It is copolymer of ethylene with a unique molecular structure, based on controlled side chain distribution. As a result, it exhibits superior behaviour in terms of stress cracking and resistance to hydrostatic pressure, without the need for cross-linking. This makes MAGNUM Tube recyclable.

This PE-RT Type I is optimally stabilised against ageing, so that the MAGNUM Tube has a calculated life span of at least 50 years under normal conditions of use. The PE-RT type I MAGNUM Tube has been specially developed for use in hot and cold water systems, floor and wall heating/cooling and ceiling cooling.

The PE-RT type I feedstock, has been a leader for more than 20 years in tube applications where a wide temperature range is required.

The MAGNUM Tube can be used in a temperature range from 5°C to 80°C. Short-term peak loads of up to 95°C at a maximum internal hydrostatic overpressure of 6 bar can be withstood without any problems.





Material	PE-RT Type I	
Oxygen density	EVOH Low (DIN 4726)	
Density	0,933 g/cm³ (ASTM D-792)	
Linear expansion coefficient	20°C - 70°C 0,19 mm/mK (DIN 53752 A)	
Coefficient of thermal conductivity	at 60°C 0,4 W/mK (DIN 52612-1)	
Deflection point (Vicat)	122°C (ASTM D-1525)	
Maximum elongation to failure	> 800% (ISO 527-2)	
Bending radius	5 x Diameter	
Certification	KOMO, MPA and SKZ	
Warranty	50 years of which the first 10 years with consequential damage	



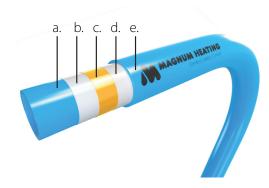








Cross section of the PE-RT 5 layered heating tube:



- a. PE-RT, Type 1
- b. Adhesive layer
- c. EVOH layer
- d. Adhesive layer
- e. PE-RT, Type 1

Technical details

• Density 0,933 g/cm³ (ASTM D-792)

• Linear expansion coefficient 20°C - 70°C

0,19 mm/mK (DIN 53752 A)

• Coefficient of thermal conductivity at 60°C

0,4 Watt/mK (DIN 52612-1)

Deflection point (Vicat)
Maximum elongation to failure
122°C (ASTM D-1525)
800% (ISO 527-2)

• Bending radius 5 x Diameter

• Oxygen density EVOH Low (DIN 4726)

• With KOMO, MPA and SKZ certification

Warranty

 $50\,\mbox{years}$ of which the first 10 years with consequential damage.

Art.nr.	Description	Length	Dimensions
	10 mm for MAGNUM SlimFit 10 system		
W10080	MAGNUM Tube, underfloor heating tube PE-RT	80 m	10 x 1,3 mm
W10240	MAGNUM Tube, underfloor heating tube PE-RT	240 m	10 x 1,3 mm
Art.nr.	Description	Length	Dimensions
	12 mm for MAGNUM Heatboard W system & MAGNUM SlimFit		Dimensions
W12100	MAGNUM Tube, underfloor heating tube PE-RT	100 m	12 x 1,5 mm
W12300	MAGNUM Tube, underfloor heating tube PE-RT	300 m	12 x 1,5 mm
Art.nr.	Description	Length	Dimensions
	14 mm		
W14100	MAGNUM Tube, underfloor heating tube PE-RT	100 m	14 x 2 mm
W14120	MAGNUM Tube, underfloor heating tube PE-RT	120 m	14 x 2 mm
W14240	MAGNUM Tube, underfloor heating tube PE-RT	240 m	14 x 2 mm
W14600	MAGNUM Tube, underfloor heating tube PE-RT	600 m	14 x 2 mm
Art.nr.	Description	Length	Dimensions
	16 mm	Length	Difficusions
W16090	MAGNUM Tube, underfloor heating tube PE-RT	90 m	16 x 2 mm
W16100	MAGNUM Tube, underfloor heating tube PE-RT	100 m	16 x 2 mm
W16120	MAGNUM Tube, underfloor heating tube PE-RT	120 m	16 x 2 mm
W16240	MAGNUM Tube, underfloor heating tube PE-RT	240 m	16 x 2 mm
W16600	MAGNUM Tube, underfloor heating tube PE-RT	600 m	16 x 2 mm
Art.nr.	Description	Length	Dimensions
	18 mm		
W18130	MAGNUM Tube, underfloor heating tube PE-RT	130 m	18 x 2 mm
W18260	MAGNUM Tube, underfloor heating tube PE-RT	260 m	18 x 2 mm
W18520	MAGNUM Tube, underfloor heating tube PE-RT	520 m	18 x 2 mm
Art.nr.	Description	Length	Dimensions
	20 mm	Length	Dimensions
W20120	MAGNUM Tube, underfloor heating tube PE-RT	120 m	20 x 2 mm
W20120 W20240	MAGNUM Tube, underfloor heating tube PE-RT	240 m	20 x 2 mm
,	MAGNUM Tube, underfloor heating tube PE-RT	500 m	20 x 2 mm

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