

Series TU1



AVENTICS™ Series TU1



Compressed air tubing, Series TU1-S-PUR

- suitable for dynamic laying
- Ø 3 mm
- Polyester polyurethane
- Max. working pressure at 20 °C 10 bar



Max. working pressure at 20 °C 10 bar
 Ambient temperature min./max. -30 ... 80 °C
 Weight 0.005 kg

Technical data

Part No.	external	Wall thickness	Color	Length	Bending radius min.
	-Ø			Delivery unit	At 20 °C
1820712069	3 mm	0.6 mm	Natural	50 m	8 mm
1820712068	3 mm	0.6 mm	Black	50 m	8 mm
1820712066	3 mm	0.6 mm	Red	50 m	8 mm
1820712067	3 mm	0.6 mm	Blue	50 m	8 mm

price / m

Technical information

External calibrated
 Suitable for dynamic laying
 Halogen-free

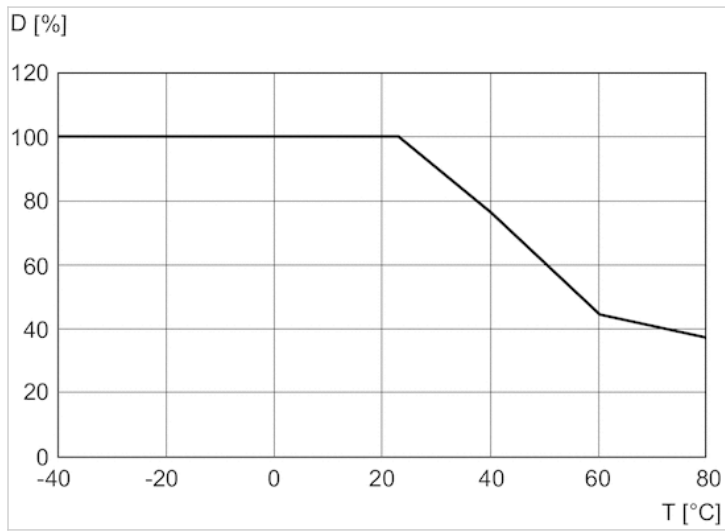
Technical information

Material

Material	Polyester polyurethane
----------	------------------------

Diagrams

Pressure-Temperature-Diagram



D = pressure resistance
T = temperature

Compressed air tubing, Series TU1-S-PUR

- suitable for dynamic laying
- Ø 4 mm
- Polyester polyurethane
- Max. working pressure at 20 °C 10 bar



Max. working pressure at 20 °C
Ambient temperature min./max.
Weight

See table below
-30 ... 80 °C
See table below

Technical data

Part No.	external	Wall thickness	Color	Length	Winch	Bending radius min.	Weight per meter
	-Ø			Delivery unit		At 20 °C	
1820712020	4 mm	0.75 mm	Red	25 m	-	12 mm	0.009 kg
1820712078	4 mm	0.75 mm	Green	25 m	-	12 mm	0.009 kg
R412014554	4 mm	0.75 mm	Natural	50 m	-	12 mm	0.01 kg
R412009984	4 mm	0.75 mm	Black	50 m	-	12 mm	0.009 kg
R412009985	4 mm	0.75 mm	Blue	50 m	-	12 mm	0.009 kg
1820712007	4 mm	0.75 mm	Natural	100 m	-	12 mm	0.009 kg
1820712018	4 mm	0.75 mm	Black	100 m	-	12 mm	0.009 kg
1820712036	4 mm	0.75 mm	Blue	100 m	-	12 mm	0.009 kg
R412004860	4 mm	0.75 mm	Yellow	100 m	-	12 mm	0.009 kg
1820712026	4 mm	0.75 mm	Red	100 m	-	12 mm	0.009 kg
R414008988	4 mm	0.75 mm	Blue	2500 m	Winch	12 mm	0.009 kg

Part No.	Max. working pressure at 20 °C
1820712020	10 bar
1820712078	10 bar
R412014554	10 bar
R412009984	10 bar
R412009985	10 bar
1820712007	10 bar
1820712018	10 bar
1820712036	10 bar
R412004860	10 bar
1820712026	-
R414008988	10 bar

price / m

Technical information

External calibrated
 Suitable for dynamic laying
 Halogen-free

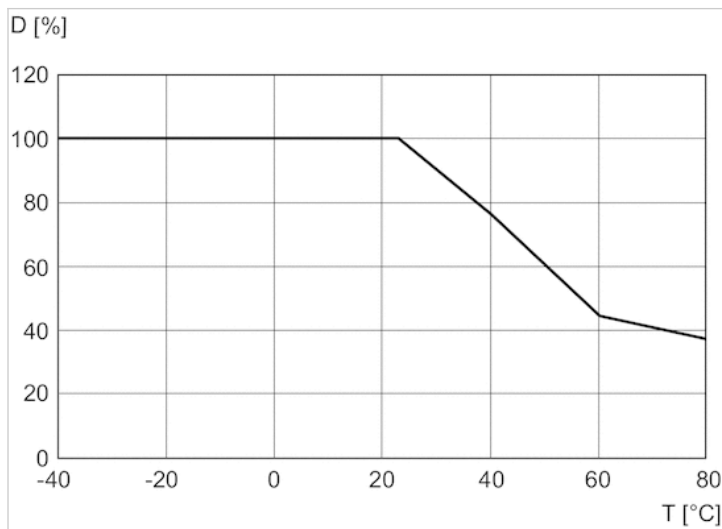
Technical information

Material

Material	Polyester polyurethane
----------	------------------------

Diagrams

Pressure-Temperature-Diagram



D = pressure resistance
 T = temperature

Compressed air tubing, Series TU1-S-PUR

- suitable for dynamic laying
- Ø 5 mm
- Polyester polyurethane
- Max. working pressure at 20 °C 10 bar



Max. working pressure at 20 °C	10 bar
Ambient temperature min./max.	-30 ... 80 °C
Weight	0.015 kg

Technical data

Part No.	external	Wall thickness	Color	Length	Bending radius min.
	-Ø			Delivery unit	At 20 °C
1820712001	5 mm	0.95 mm	Natural	25 m	13 mm
1820712011	5 mm	0.95 mm	Black	25 m	13 mm
1820712031	5 mm	0.95 mm	Blue	25 m	13 mm
1820712021	5 mm	0.95 mm	Red	25 m	13 mm
R412009986	5 mm	0.95 mm	Blue	50 m	13 mm

price / m

Technical information

External calibrated
Suitable for dynamic laying
Halogen-free

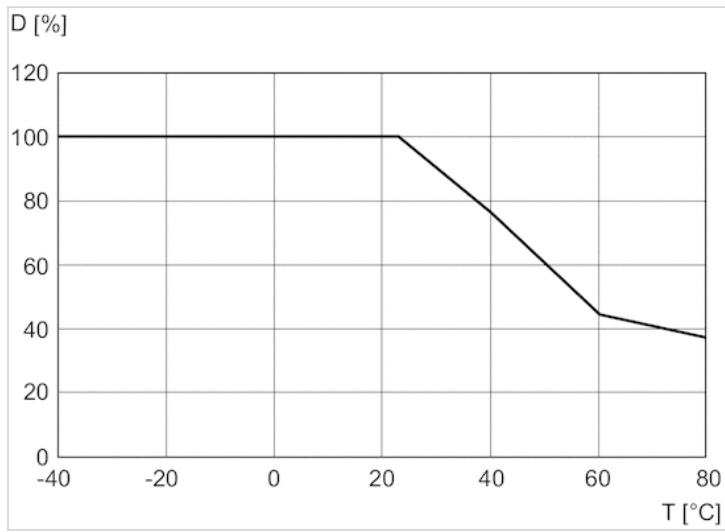
Technical information

Material

Material	Polyester polyurethane
----------	------------------------

Diagrams

Pressure-Temperature-Diagram



D = pressure resistance
T = temperature

Compressed air tubing, Series TU1-S-PUR

- suitable for dynamic laying
- Ø 6 mm
- Polyester polyurethane
- Max. working pressure at 20 °C 10 bar



Max. working pressure at 20 °C
Ambient temperature min./max.
Weight

See table below
-30 ... 80 °C
0.02 kg

Technical data

Part No.	external	Wall thickness	Color	Length	Winch	Bending radius min.
	-Ø			Delivery unit		At 20 °C
1820712022	6 mm	1.05 mm	Red	25 m	-	18 mm
R412014556	6 mm	1.05 mm	Natural	50 m	-	18 mm
R412014555	6 mm	1.05 mm	Green	50 m	-	18 mm
R412009987	6 mm	1.05 mm	Black	50 m	-	18 mm
R412009988	6 mm	1.05 mm	Blue	50 m	-	18 mm
1820712027	6 mm	1.05 mm	Red	100 m	-	18 mm
1820712006	6 mm	1.05 mm	Natural	100 m	-	18 mm
1820712019	6 mm	1.05 mm	Black	100 m	-	18 mm
1820712037	6 mm	1.05 mm	Blue	100 m	-	18 mm
R412004861	6 mm	1.05 mm	Yellow	100 m	-	18 mm
R412007650	6 mm	1.05 mm	Green	100 m	-	18 mm
R412007799	6 mm	1.05 mm	Blue	500 m	-	18 mm
R412009962	6 mm	1.05 mm	Yellow	1000 m	-	18 mm
R414000540	6 mm	1.05 mm	Blue	1000 m	-	18 mm
R414000541	6 mm	1.05 mm	Red	1000 m	-	18 mm
R414008985	6 mm	1.05 mm	Blue	1100 m	Winch	18 mm
R414008987	6 mm	1.05 mm	Black	1100 m	Winch	18 mm

Part No.	Max. working pressure at 20 °C
1820712022	10 bar
R412014556	10 bar
R412014555	10 bar
R412009987	10 bar
R412009988	10 bar

Part No.	Max. working pressure at 20 °C
1820712027	-
1820712006	10 bar
1820712019	10 bar
1820712037	10 bar
R412004861	10 bar
R412007650	10 bar
R412007799	10 bar
R412009962	10 bar
R414000540	10 bar
R414000541	10 bar
R414008985	10 bar
R414008987	10 bar

price / m

Technical information

External calibrated
 Suitable for dynamic laying
 Halogen-free

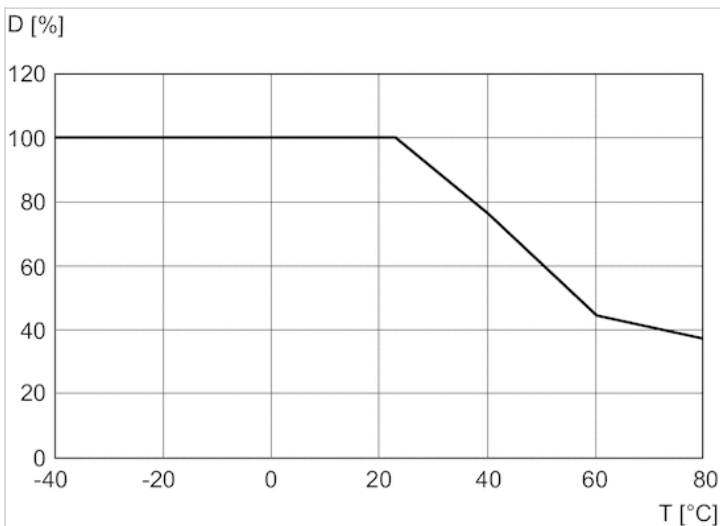
Technical information

Material

Material	Polyester polyurethane
----------	------------------------

Diagrams

Pressure-Temperature-Diagram



D = pressure resistance
 T = temperature

Compressed air tubing, Series TU1-S-PUR

- suitable for dynamic laying
- Ø 8 mm
- Polyester polyurethane
- Max. working pressure at 20 °C 10 bar



Max. working pressure at 20 °C 10 bar
 Ambient temperature min./max. -30 ... 80 °C
 Weight 0.03 kg

Technical data

Part No.	external	Wall thickness	Color	Length	Winch	Bending radius min.
	-Ø			Delivery unit		At 20 °C
1820712023	8 mm	1.15 mm	Red	25 m	-	30 mm
1820712080	8 mm	1.15 mm	Green	25 m	-	30 mm
R412014557	8 mm	1.15 mm	Natural	50 m	-	30 mm
R412009989	8 mm	1.15 mm	Black	50 m	-	30 mm
R412009990	8 mm	1.15 mm	Blue	50 m	-	30 mm
1820712008	8 mm	1.15 mm	Natural	100 m	-	30 mm
1820712016	8 mm	1.15 mm	Black	100 m	-	30 mm
1820712028	8 mm	1.15 mm	Red	100 m	-	30 mm
1820712038	8 mm	1.15 mm	Blue	100 m	-	30 mm
R412004862	8 mm	1.15 mm	Yellow	100 m	-	30 mm
R412007800	8 mm	1.15 mm	Blue	500 m	-	30 mm
R414009118	8 mm	1.15 mm	Blue	600 m	Winch	30 mm

price / m

Technical information

External calibrated
 Suitable for dynamic laying
 Halogen-free

Technical information

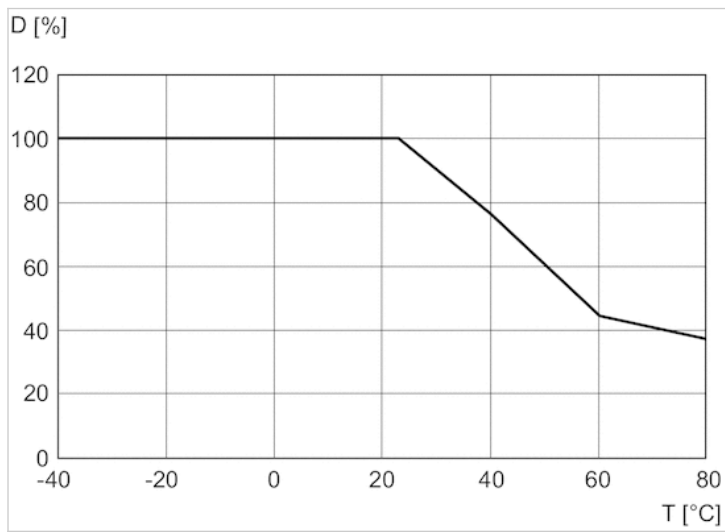
Material

Material

Polyester polyurethane

Diagrams

Pressure-Temperature-Diagram



D = pressure resistance

T = temperature

Compressed air tubing, Series TU1-S-PUR

- suitable for dynamic laying
- Ø 10 mm
- Polyester polyurethane
- Max. working pressure at 20 °C 10 bar



Max. working pressure at 20 °C 10 bar
 Ambient temperature min./max. -30 ... 80 °C
 Weight See table below

Technical data

Part No.	external	Wall thickness	Color	Length	Bending radius min.	Weight per meter
	-Ø			Delivery unit	At 20 °C	
1820712015	10 mm	1.25 mm	Black	25 m	45 mm	0.043 kg
1820712025	10 mm	1.25 mm	Red	25 m	45 mm	-
R412014558	10 mm	1.25 mm	Natural	50 m	45 mm	0.043 kg
R412009991	10 mm	1.25 mm	Blue	50 m	45 mm	0.042 kg
1820712009	10 mm	1.25 mm	Natural	100 m	45 mm	0.02 kg
1820712081	10 mm	1.25 mm	Black	100 m	45 mm	0.043 kg
1820712029	10 mm	1.25 mm	Red	100 m	45 mm	0.044 kg
1820712039	10 mm	1.25 mm	Blue	100 m	45 mm	0.043 kg

price / m

Technical information

External calibrated
 Suitable for dynamic laying
 Halogen-free

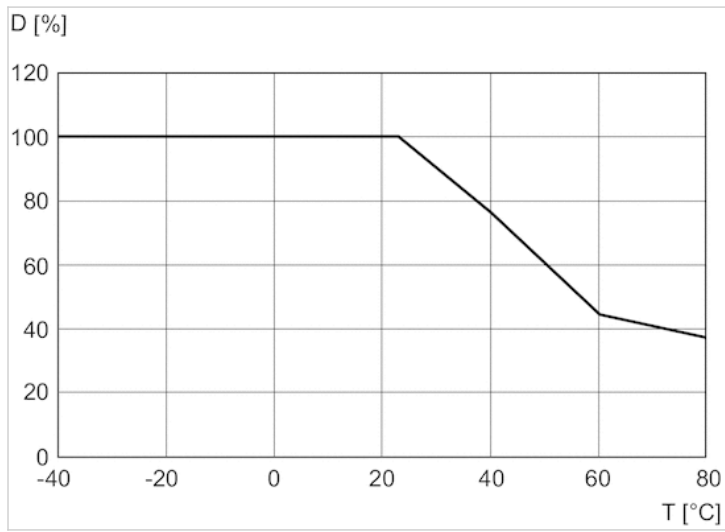
Technical information

Material

Material Polyester polyurethane

Diagrams

Pressure-Temperature-Diagram



D = pressure resistance
T = temperature

Compressed air tubing, Series TU1-S-PUR

- suitable for dynamic laying
- Ø 12 mm
- Polyester polyurethane
- Max. working pressure at 20 °C 10 bar



Max. working pressure at 20 °C 10 bar
 Ambient temperature min./max. -30 ... 80 °C
 Weight See table below

Technical data

Part No.	external	Wall thickness	Color	Length	Winch	Bending radius min.	Weight per meter
	-Ø			Delivery unit		At 20 °C	
1820712014	12 mm	1.5 mm	Black	25 m	-	55 mm	0.06 kg
1820712024	12 mm	1.5 mm	Red	25 m	-	55 mm	0.06 kg
R412014559	12 mm	1.5 mm	Natural	50 m	-	55 mm	0.063 kg
R412009992	12 mm	1.5 mm	Blue	50 m	-	55 mm	0.06 kg
1820712082	12 mm	1.5 mm	Natural	100 m	-	55 mm	0.06 kg
1820712017	12 mm	1.5 mm	Black	100 m	-	55 mm	0.06 kg
1820712083	12 mm	1.5 mm	Red	100 m	-	55 mm	0.06 kg
1820712040	12 mm	1.5 mm	Blue	100 m	-	55 mm	0.06 kg
R412009910	12 mm	1.5 mm	Black	250 m	Winch	55 mm	0.06 kg
R412007801	12 mm	1.5 mm	Blue	300 m	Winch	55 mm	0.06 kg

price / m

Technical information

External calibrated
 Suitable for dynamic laying
 Halogen-free

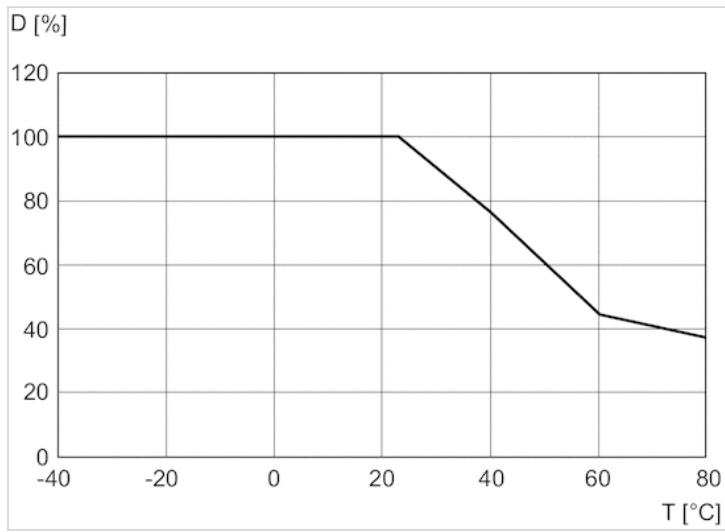
Technical information

Material

Material Polyester polyurethane

Diagrams

Pressure-Temperature-Diagram



D = pressure resistance
T = temperature

Compressed air tubing, Series TU1-S-PUR

- suitable for dynamic laying
- Ø 14 mm
- Polyester polyurethane
- Max. working pressure at 20 °C 10 bar



Max. working pressure at 20 °C 10 bar
 Ambient temperature min./max. -30 ... 80 °C
 Weight 0.092 kg

Technical data

Part No.	external	Wall thickness	Color	Length	Bending radius min.
	-Ø			Delivery unit	At 20 °C
R412004790	14 mm	2 mm	Natural	25 m	55 mm
R412004778	14 mm	2 mm	Black	25 m	55 mm
R412004782	14 mm	2 mm	Blue	25 m	55 mm
R412004783	14 mm	2 mm	Blue	100 m	55 mm
R412004779	14 mm	2 mm	Black	100 m	55 mm

price / m

Technical information

External calibrated
 Suitable for dynamic laying
 Halogen-free

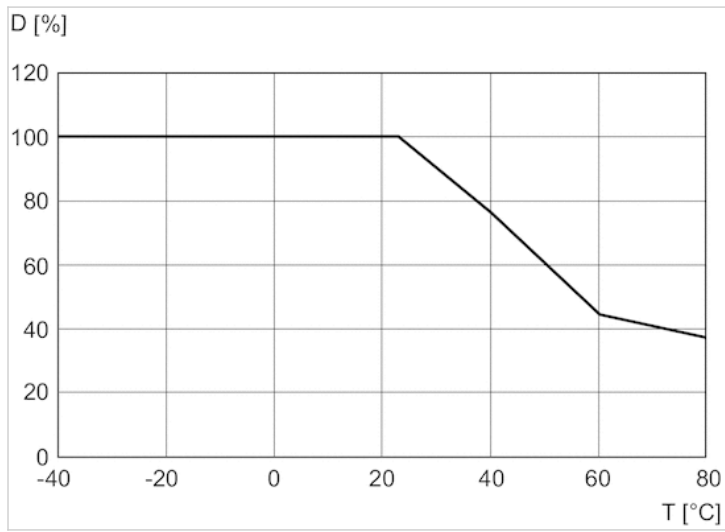
Technical information

Material

Material	Polyester polyurethane
----------	------------------------

Diagrams

Pressure-Temperature-Diagram



D = pressure resistance
T = temperature

Compressed air tubing, Series TU1-S-PUR

- suitable for dynamic laying
- Ø 16 mm
- Polyester polyurethane
- Max. working pressure at 20 °C 10 bar



Max. working pressure at 20 °C 10 bar
 Ambient temperature min./max. -30 ... 80 °C
 Weight 0.129 kg

Technical data

Part No.	external	Wall thickness	Color	Length	Bending radius min.
	-Ø			Delivery unit	At 20 °C
R412004792	16 mm	2.5 mm	Natural	25 m	65 mm
R412004780	16 mm	2.5 mm	Black	25 m	65 mm
R412004784	16 mm	2.5 mm	Blue	25 m	65 mm
R412009908	16 mm	2.5 mm	Black	75 m	65 mm
R412004781	16 mm	2.5 mm	Black	100 m	65 mm
R412004789	16 mm	2.5 mm	Red	100 m	65 mm
R412004785	16 mm	2.5 mm	Blue	100 m	65 mm
R412004793	16 mm	2.5 mm	Natural	100 m	65 mm

price / m

Technical information

External calibrated
 Suitable for dynamic laying
 Halogen-free

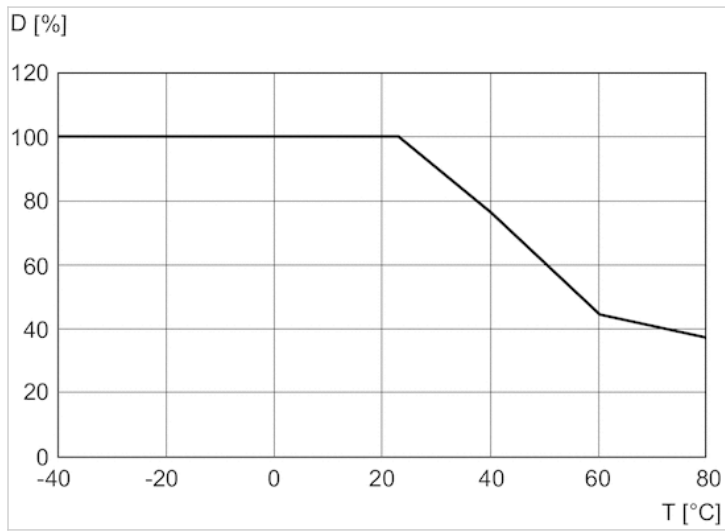
Technical information

Material

Material Polyester polyurethane

Diagrams

Pressure-Temperature-Diagram



D = pressure resistance
T = temperature

Compressed air tubing, Series TU1-F-PUR

- Ø 4 mm
- Polyether polyurethane
- suitable for use in food processing
- Max. working pressure at 20 °C 10 bar



Max. working pressure at 20 °C 10 bar
 Ambient temperature min./max. -30 ... 60 °C
 Weight 0.009 kg

Technical data

Part No.	external	Wall thickness	Color	Length	Bending radius min.
	-Ø			Delivery unit	At 20 °C
R412009963	4 mm	0.75 mm	Black translucent	25 m	12 mm
R412004796	4 mm	0.75 mm	Blue translucent	25 m	12 mm
R412004797	4 mm	0.75 mm	Transparent	25 m	12 mm
R412009900	4 mm	0.75 mm	Translucent red	25 m	12 mm
R412007413	4 mm	0.75 mm	Silver gray	100 m	12 mm

price / m

Technical information

- External calibrated
- Suitable for dynamic laying
- Approved for food (documented by manufacturer declaration)
- Resistant to microbes
- Excellent hydrolysis characteristics

Technical information

Material	
Material	Polyether polyurethane

Compressed air tubing, Series TU1-F-PUR

- Ø 6 mm
- Polyether polyurethane
- suitable for use in food processing
- Max. working pressure at 20 °C 10 bar



Max. working pressure at 20 °C	10 bar
Ambient temperature min./max.	-30 ... 60 °C
Weight	0.02 kg

Technical data

Part No.	external	Wall thickness	Color	Length	Bending radius min.	
	-Ø			Delivery unit	At 20 °C	
1820712043	6 mm	1.05 mm	Black translucent	25 m	15 mm	-
1820712044	6 mm	1.05 mm	Blue translucent	25 m	15 mm	-
1820712042	6 mm	1.05 mm	Transparent	25 m	15 mm	-
R412007414	6 mm	1.05 mm	Silver gray	25 m	15 mm	-
R412009901	6 mm	1.05 mm	Translucent red	25 m	15 mm	-
R412007415	6 mm	1.05 mm	Silver gray	100 m	15 mm	-
R412009907	6 mm	1.05 mm	Blue translucent	100 m	15 mm	-
R414008868	6 mm	1.05 mm	Blue	500 m	15 mm	-
R412024288	6 mm	1.05 mm	Blue translucent	1000 m	15 mm	1)

price / m

1) Winch

Technical information

External calibrated
 Suitable for dynamic laying
 Approved for food (documented by manufacturer declaration)
 Resistant to microbes
 Excellent hydrolysis characteristics

Technical information

Material

Material

Polyether polyurethane

Compressed air tubing, Series TU1-F-PUR

- Ø 8 mm
- Polyether polyurethane
- suitable for use in food processing
- Max. working pressure at 20 °C 10 bar



Max. working pressure at 20 °C 10 bar
 Ambient temperature min./max. -30 ... 60 °C
 Weight 0.031 kg

Technical data

Part No.	external	Wall thickness	Color	Length	Winch	Bending radius min.
	-Ø			Delivery unit		At 20 °C
1820712046	8 mm	1.25 mm	Black translucent	25 m	-	25 mm
R412014475	8 mm	1.25 mm	Yellow, translucent	25 m	-	25 mm
1820712047	8 mm	1.25 mm	Blue translucent	25 m	-	25 mm
1820712045	8 mm	1.25 mm	Transparent	25 m	-	25 mm
R412004994	8 mm	1.25 mm	Translucent red	25 m	-	25 mm
R412007416	8 mm	1.25 mm	Silver gray	25 m	-	25 mm
R412009993	8 mm	1.25 mm	Blue translucent	100 m	-	25 mm
R412007417	8 mm	1.25 mm	Silver gray	100 m	-	25 mm
R412024292	8 mm	1.25 mm	Blue translucent	500 m	Winch	25 mm

price / m

Technical information

External calibrated
 Suitable for dynamic laying
 Approved for food (documented by manufacturer declaration)
 Resistant to microbes
 Excellent hydrolysis characteristics

Technical information

Material

Material

Polyether polyurethane

Compressed air tubing, Series TU1-F-PUR

- Ø 10 mm
- Polyether polyurethane
- suitable for use in food processing
- Max. working pressure at 20 °C 10 bar



Max. working pressure at 20 °C 10 bar
 Ambient temperature min./max. -30 ... 60 °C
 Weight See table below

Technical data

Part No.	external	Wall thickness	Color	Length	Bending radius min.
	-Ø			Delivery unit	At 20 °C
R412009964	10 mm	1.5 mm	Black translucent	25 m	30 mm
R412007418	10 mm	1.5 mm	Silver gray	25 m	30 mm
R412004798	10 mm	1.5 mm	Blue translucent	25 m	30 mm
R412004799	10 mm	1.5 mm	Transparent	25 m	30 mm
R412014560	10 mm	1.5 mm	Translucent red	100 m	30 mm
R412007419	10 mm	1.5 mm	Silver gray	100 m	30 mm
R412009994	10 mm	1.5 mm	Blue translucent	100 m	30 mm

Part No.	Weight per meter
R412009964	0.046 kg
R412007418	0.046 kg
R412004798	0.046 kg
R412004799	0.046 kg
R412014560	0.05 kg
R412007419	0.046 kg
R412009994	0.046 kg

price / m

Technical information

External calibrated
Suitable for dynamic laying
Approved for food (documented by manufacturer declaration)
Resistant to microbes
Excellent hydrolysis characteristics

Technical information

Material

Material	Polyether polyurethane
----------	------------------------

Compressed air tubing, Series TU1-F-PUR

- Ø 12 mm
- Polyether polyurethane
- suitable for use in food processing
- Max. working pressure at 20 °C 10 bar



Max. working pressure at 20 °C 10 bar
 Ambient temperature min./max. -30 ... 60 °C
 Weight 0.073 kg

Technical data

Part No.	external	Wall thickness	Color	Length	Winch	Bending radius min.
	-Ø			Delivery unit		At 20 °C
R412009965	12 mm	2 mm	Blue translucent	25 m	-	35 mm
R412009970	12 mm	2 mm	Yellow, translucent	25 m	-	35 mm
R412009967	12 mm	2 mm	Transparent	25 m	-	35 mm
R412009948	12 mm	2 mm	Black translucent	100 m	-	35 mm
R412009949	12 mm	2 mm	Translucent red	100 m	-	35 mm
R412007421	12 mm	2 mm	Silver gray	100 m	-	35 mm
R412009995	12 mm	2 mm	Blue translucent	100 m	-	35 mm
R412024293	12 mm	2 mm	Blue translucent	500 m	Winch	35 mm

price / m

Technical information

- External calibrated
- Suitable for dynamic laying
- Approved for food (documented by manufacturer declaration)
- Resistant to microbes
- Excellent hydrolysis characteristics

Technical information

Material	
Material	Polyether polyurethane

Compressed air tubing, Series TU1-F-PUR

- Ø 14 mm
- Polyether polyurethane
- suitable for use in food processing
- Max. working pressure at 20 °C 10 bar



Max. working pressure at 20 °C 10 bar
 Ambient temperature min./max. -30 ... 60 °C
 Weight 0.088 kg

Technical data

Part No.	external	Wall thickness	Color	Length	Bending radius min.
	-Ø			Delivery unit	At 20 °C
R412009968	14 mm	2 mm	Transparent	25 m	40 mm
R412009911	14 mm	2 mm	Translucent red	25 m	40 mm

price / m

Technical information

- External calibrated
- Suitable for dynamic laying
- Approved for food (documented by manufacturer declaration)
- Resistant to microbes
- Excellent hydrolysis characteristics

Technical information

Material	
Material	Polyether polyurethane

Compressed air tubing, Series TU1-F-PUR

- Ø 16 mm
- Polyether polyurethane
- suitable for use in food processing
- Max. working pressure at 20 °C 10 bar



Max. working pressure at 20 °C 10 bar
 Ambient temperature min./max. -30 ... 60 °C
 Weight 0.123 kg

Technical data

Part No.	external	Wall thickness	Color	Length	Bending radius min.
	-Ø			Delivery unit	At 20 °C
R412007424	16 mm	2.5 mm	Silver gray	25 m	55 mm
R412009904	16 mm	2.5 mm	Translucent red	25 m	55 mm
R412014480	16 mm	2.5 mm	Blue translucent	25 m	55 mm

price / m

Technical information

- External calibrated
- Suitable for dynamic laying
- Approved for food (documented by manufacturer declaration)
- Resistant to microbes
- Excellent hydrolysis characteristics

Technical information

Material	
Material	Polyether polyurethane

Compressed air tubing, Series TU1-A-PUR

- suitable for dynamic laying
- Ø 3-12 mm
- Polyether polyurethane
- antistatic
- Max. working pressure at 20 °C 10 bar



Max. working pressure at 20 °C 10 bar
 Ambient temperature min./max. -30 ... 60 °C
 Weight See table below

Technical data

Part No.	external	Wall thickness	Color	Length	Bending radius min.	Weight per meter
	-Ø			Delivery unit	At 20 °C	
R412007792	3 mm	0.55 mm	Black	50 m	9 mm	0.006 kg
1820712089	4 mm	0.75 mm	Black	50 m	9 mm	0.009 kg
1820712091	6 mm	1.05 mm	Black	50 m	15 mm	0.02 kg
1820712092	8 mm	1.15 mm	Black	50 m	28 mm	0.03 kg
1820712093	10 mm	1.25 mm	Black	50 m	35 mm	0.042 kg
R412007705	12 mm	1.5 mm	Black	50 m	50 mm	0.063 kg

price / m

Technical information

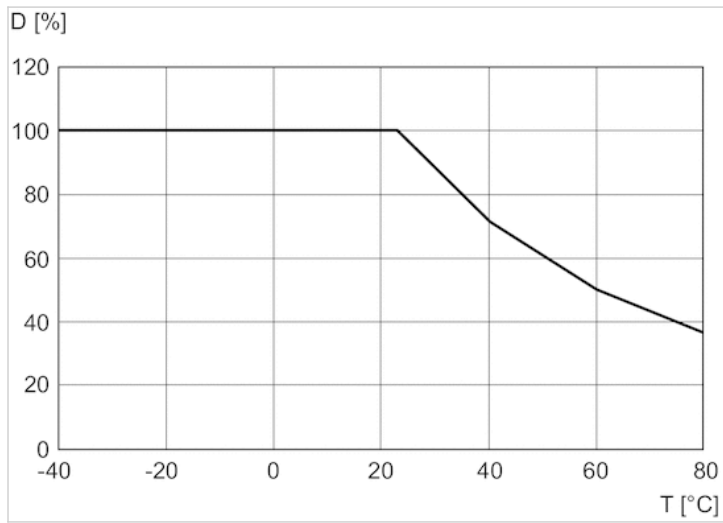
External calibrated
 Suitable for dynamic laying
 Highly antistatic version with a surface resistance of 1000 k ohm.
 Excellent hydrolysis characteristics
 Excellent UV resistance
 Resistant to microbes

Technical information

Material	
Material	Polyether polyurethane

Diagrams

Pressure-Temperature-Diagram



D = pressure resistance

T = temperature

Compressed air tubing, Series TU1-X-PUR

- Ø 4-16 mm
- Polyether polyurethane
- Flamex
- Max. working pressure at 20 °C 16 bar



Max. working pressure at 20 °C 16 bar
 Ambient temperature min./max. -30 ... 90 °C
 Weight See table below

Technical data

Part No.	external	Wall thickness	Color	Length	Bending radius min.	Signature
	-Ø			Delivery unit	At 20 °C	
1820712096	4 mm	1 mm	Black	25 m	7 mm	Blue
1820712084	4 mm	1 mm	Black	25 m	7 mm	White
1820712094	8 mm	2 mm	Black	25 m	15 mm	Blue
1820712085	8 mm	2 mm	Black	25 m	15 mm	White
1820712095	10 mm	2 mm	Black	25 m	20 mm	Blue
1820712086	10 mm	2 mm	Black	25 m	20 mm	White
1820712097	12 mm	2 mm	Black	25 m	28 mm	Blue
1820712087	12 mm	2 mm	Black	25 m	28 mm	White
1820712098	14 mm	2 mm	Black	25 m	45 mm	Blue
1820712088	14 mm	2 mm	Black	25 m	45 mm	White
R412004794	16 mm	2.5 mm	Black	50 m	55 mm	White

Part No.	Weight per meter
1820712096	0.012 kg
1820712084	0.012 kg
1820712094	0.048 kg
1820712085	0.048 kg
1820712095	0.064 kg
1820712086	0.064 kg
1820712097	0.08 kg
1820712087	0.08 kg
1820712098	0.096 kg
1820712088	0.096 kg
R412004794	0.135 kg

price / m

Technical information

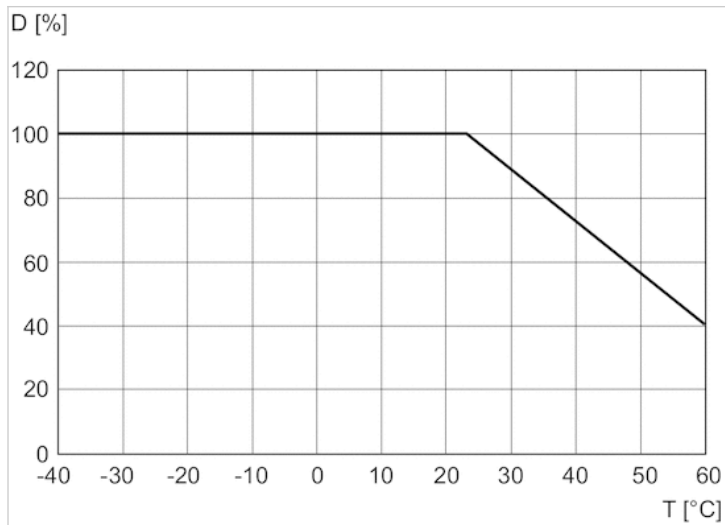
- External calibrated
- Suitable for dynamic laying
- Halogen-free flame-retardant
- Flame resistance according to UL 94 V-O to V-2.
- Resistant to microbes
- Excellent hydrolysis characteristics
- Excellent UV resistance

Technical information

Material	
Material	Polyether polyurethane

Diagrams

Pressure-Temperature-Diagram



D = pressure resistance
 T = temperature

Compressed air tubing, Series TU1-E-PUR

- suitable for dynamic laying, elastic
- Ø 4-12 mm
- Polyester polyurethane
- Max. working pressure at 20 °C 8 bar



Max. working pressure at 20 °C 8 bar
 Ambient temperature min./max. -30 ... 60 °C
 Weight See table below

Technical data

Part No.	external	Wall thickness	Color	Length	Winch	Bending radius min.	Weight per meter
	-Ø			Delivery unit		At 20 °C	
R412007823	4 mm	0.75 mm	Natural	500 m	-	13 mm	0.009 kg
R412007824	4 mm	0.75 mm	Black	500 m	-	13 mm	0.009 kg
R412007825	4 mm	0.75 mm	Blue	500 m	-	13 mm	0.009 kg
R412007826	6 mm	1 mm	Natural	500 m	-	20 mm	0.02 kg
R412007827	6 mm	1 mm	Black	500 m	-	20 mm	0.02 kg
R412014561	6 mm	1.05 mm	Black	500 m	-	20 mm	0.02 kg
R412007828	6 mm	1 mm	Blue	500 m	-	20 mm	0.02 kg
R412007829	8 mm	1.15 mm	Natural	500 m	-	33 mm	0.03 kg
R412007830	8 mm	1.15 mm	Black	500 m	-	33 mm	0.03 kg
R412007831	8 mm	1.15 mm	Blue	500 m	-	33 mm	0.03 kg
R412014562	8 mm	1.15 mm	Black	500 m	Winch	20 mm	0.02 kg
R412007834	10 mm	1.25 mm	Blue	400 m	-	48 mm	0.042 kg
R412007837	12 mm	1.5 mm	Blue	300 m	-	55 mm	0.06 kg

Part No.	
R412007823	-
R412007824	-
R412007825	-
R412007826	-
R412007827	-
R412014561	1)
R412007828	-
R412007829	-
R412007830	-

Part No.	
R412007831	-
R412014562	-
R412007834	-
R412007837	-

price / m

1) Winch

Technical information

External calibrated
 Suitable for dynamic laying
 Halogen-free

Technical information

Material

Material	Polyester polyurethane
----------	------------------------

Compressed air tubing, Series TU1-S-PAM

- suitable for dynamic laying
- Ø 4 mm
- Polyamide
- Max. working pressure at 20 °C 15-26 bar



Max. working pressure at 20 °C
 Ambient temperature min./max.
 Weight

See table below
 -40 ... 80 °C
 0.006 kg

Technical data

Part No.	external	Wall thickness	Color	Length	Bending radius min. At 20 °C
	-Ø			Delivery unit	
1820712100	4 mm	1 mm	Natural	25 m	20 mm
1820712110	4 mm	1 mm	Black	25 m	20 mm
R412009980	4 mm	0.5 mm	Silver gray	25 m	20 mm
R412009913	4 mm	0.5 mm	Blue	25 m	20 mm
R412009931	4 mm	0.5 mm	Black	50 m	20 mm
R412009937	4 mm	0.5 mm	Natural	50 m	20 mm
R412009914	4 mm	0.5 mm	Blue	100 m	20 mm
R412009943	4 mm	0.5 mm	Silver gray	100 m	20 mm

Part No.	Max. working pressure at 20 °C
1820712100	26 bar
1820712110	26 bar
R412009980	15 bar
R412009913	15 bar
R412009931	15 bar
R412009937	15 bar
R412009914	15 bar
R412009943	15 bar

price / m

Technical information

External calibrated
Halogen-free
Excellent hydrolysis characteristics
Suitable for dynamic laying
Excellent UV resistance
Resistant to microbes

Technical information

Material	
Material	Polyamide

Compressed air tubing, Series TU1-S-PAM

- suitable for dynamic laying
- Ø 6 mm
- Polyamide
- Max. working pressure at 20 °C 13-24 bar



Max. working pressure at 20 °C
Ambient temperature min./max.
Weight

See table below
-40 ... 80 °C
0.011 kg

Technical data

Part No.	external	Wall thickness	Color	Length	Bending radius min.
	-Ø			Delivery unit	
1820712101	6 mm	1 mm	Natural	25 m	30 mm
1820712111	6 mm	1 mm	Black	25 m	30 mm
R412007515	6 mm	1 mm	Red	25 m	30 mm
R412007516	6 mm	1 mm	Green	25 m	30 mm
R412009915	6 mm	0.65 mm	Blue	25 m	30 mm
R412009998	6 mm	0.65 mm	Silver gray	25 m	30 mm
R412009916	6 mm	0.65 mm	Blue	50 m	30 mm
R412009932	6 mm	0.65 mm	Black	50 m	30 mm
R412009938	6 mm	0.65 mm	Natural	50 m	30 mm
R412009917	6 mm	0.65 mm	Blue	100 m	30 mm
R412009944	6 mm	0.65 mm	Silver gray	100 m	30 mm
R412007636	6 mm	1 mm	Green	100 m	30 mm
R412009905	6 mm	1 mm	Natural	100 m	30 mm
R412009906	6 mm	1 mm	Black	100 m	30 mm

Part No.	Max. working pressure at 20 °C
1820712101	24 bar
1820712111	24 bar
R412007515	24 bar
R412007516	24 bar
R412009915	13 bar
R412009998	13 bar
R412009916	13 bar
R412009932	13 bar

Part No.	Max. working pressure at 20 °C
R412009938	13 bar
R412009917	13 bar
R412009944	13 bar
R412007636	24 bar
R412009905	24 bar
R412009906	24 bar

price / m

Technical information

External calibrated
 Halogen-free
 Excellent hydrolysis characteristics
 Suitable for dynamic laying
 Excellent UV resistance
 Resistant to microbes

Technical information

Material

Material	Polyamide
----------	-----------

Compressed air tubing, Series TU1-S-PAM

- suitable for dynamic laying
- Ø 8 mm
- Polyamide
- Max. working pressure at 20 °C 12-22 bar



Max. working pressure at 20 °C
Ambient temperature min./max.
Weight

See table below
-40 ... 80 °C
See table below

Technical data

Part No.	external	Wall thickness	Color	Length	Bending radius min.	Weight per meter
	-Ø			Delivery unit	At 20 °C	
R412009918	8 mm	0.8 mm	Blue	25 m	40 mm	0.019 kg
1820712102	8 mm	1 mm	Natural	25 m	40 mm	0.019 kg
1820712112	8 mm	1 mm	Black	25 m	40 mm	0.019 kg
R412007590	8 mm	1 mm	Blue	25 m	40 mm	0.019 kg
R412009981	8 mm	0.8 mm	Silver gray	25 m	40 mm	0.019 kg
R412009919	8 mm	0.8 mm	Blue	50 m	40 mm	0.019 kg
R412009933	8 mm	0.8 mm	Black	50 m	40 mm	0.019 kg
R412009939	8 mm	0.8 mm	Natural	50 m	40 mm	0.019 kg
R412014553	8 mm	0.8 mm	Black	100 m	40 mm	0.022 kg
R412014552	8 mm	0.8 mm	Red	100 m	40 mm	0.023 kg
R412009920	8 mm	0.8 mm	Blue	100 m	40 mm	0.019 kg
R412009945	8 mm	0.8 mm	Silver gray	100 m	40 mm	0.019 kg

Part No.	Max. working pressure at 20 °C
R412009918	12 bar
1820712102	22 bar
1820712112	22 bar
R412007590	22 bar
R412009981	12 bar
R412009919	12 bar
R412009933	12 bar
R412009939	12 bar
R412014553	12 bar
R412014552	12 bar

Part No.	Max. working pressure at 20 °C
R412009920	12 bar
R412009945	12 bar

price / m

Technical information

- External calibrated
- Halogen-free
- Excellent hydrolysis characteristics
- Suitable for dynamic laying
- Excellent UV resistance
- Resistant to microbes

Technical information

Material	
Material	Polyamide

Compressed air tubing, Series TU1-S-PAM

- suitable for dynamic laying
- Ø 10 mm
- Polyamide
- Max. working pressure at 20 °C 14 bar



Max. working pressure at 20 °C 14 bar
 Ambient temperature min./max. -40 ... 80 °C
 Weight 0.028 kg

Technical data

Part No.	external	Wall thickness	Color	Length	Bending radius min.
	-Ø			Delivery unit	At 20 °C
R412009921	10 mm	1 mm	Blue	25 m	50 mm
R412009982	10 mm	1 mm	Silver gray	25 m	50 mm
1820712105	10 mm	1 mm	Natural	25 m	50 mm
1820712115	10 mm	1 mm	Black	25 m	50 mm
R412009934	10 mm	1 mm	Black	50 m	50 mm
R412009940	10 mm	1 mm	Natural	50 m	50 mm
R412009922	10 mm	1 mm	Blue	50 m	50 mm
R412009923	10 mm	1 mm	Blue	100 m	50 mm
R412009946	10 mm	1 mm	Silver gray	100 m	50 mm
R412007632	10 mm	1 mm	Green	100 m	50 mm
R412007633	10 mm	1 mm	Black	100 m	50 mm

price / m

Technical information

External calibrated
 Halogen-free
 Excellent hydrolysis characteristics
 Suitable for dynamic laying
 Excellent UV resistance
 Resistant to microbes

Technical information

Material

Material

Polyamide

Compressed air tubing, Series TU1-S-PAM

- suitable for dynamic laying
- Ø 12 mm
- Polyamide
- Max. working pressure at 20 °C 11-18 bar



Max. working pressure at 20 °C
Ambient temperature min./max.
Weight

See table below
-40 ... 80 °C
0.039 kg

Technical data

Part No.	external	Wall thickness	Color	Length	Bending radius min. At 20 °C
	-Ø			Delivery unit	
R412009924	12 mm	1.1 mm	Blue	25 m	60 mm
R412009983	12 mm	1.1 mm	Silver gray	25 m	60 mm
1820712103	12 mm	1.5 mm	Natural	25 m	60 mm
1820712113	12 mm	1.5 mm	Black	25 m	60 mm
R412009935	12 mm	1.1 mm	Black	50 m	60 mm
R412009941	12 mm	1.1 mm	Natural	50 m	60 mm
R412009925	12 mm	1.1 mm	Blue	50 m	60 mm
R412009926	12 mm	1.1 mm	Blue	100 m	60 mm
R412009947	12 mm	1.1 mm	Silver gray	100 m	60 mm

Part No.	Max. working pressure at 20 °C
R412009924	11 bar
R412009983	11 bar
1820712103	18 bar
1820712113	18 bar
R412009935	11 bar
R412009941	11 bar
R412009925	11 bar
R412009926	11 bar
R412009947	11 bar

price / m

Technical information

- External calibrated
- Halogen-free
- Excellent hydrolysis characteristics
- Suitable for dynamic laying
- Excellent UV resistance
- Resistant to microbes

Technical information

Material

Material

Polyamide

Compressed air tubing, Series TU1-S-PAM

- suitable for dynamic laying
- Ø 14 mm
- Polyamide
- Max. working pressure at 20 °C 11-15 bar



Max. working pressure at 20 °C
 Ambient temperature min./max.
 Weight

See table below
 -40 ... 80 °C
 0.052 kg

Technical data

Part No.	external	Wall thickness	Color	Length	Bending radius min.
	-Ø			Delivery unit	
R412009927	14 mm	1.25 mm	Blue	25 m	90 mm
1820712104	14 mm	1.5 mm	Natural	25 m	90 mm
1820712114	14 mm	1.5 mm	Black	25 m	90 mm
R412009999	14 mm	1.25 mm	Silver gray	25 m	90 mm
R412009936	14 mm	1.25 mm	Black	50 m	90 mm
R412009928	14 mm	1.25 mm	Blue	50 m	90 mm
R412009942	14 mm	1.25 mm	Natural	50 m	90 mm

Part No.	Max. working pressure at 20 °C
R412009927	11 bar
1820712104	15 bar
1820712114	15 bar
R412009999	11 bar
R412009936	11 bar
R412009928	11 bar
R412009942	11 bar

price / m

Technical information

- External calibrated
- Halogen-free
- Excellent hydrolysis characteristics
- Suitable for dynamic laying
- Excellent UV resistance
- Resistant to microbes

Technical information

Material	
Material	Polyamide

Compressed air tubing, Series TU1-S-PAM

- suitable for dynamic laying
- Ø 16 mm
- Polyamide
- Max. working pressure at 20 °C 10 bar



Max. working pressure at 20 °C 10 bar
 Ambient temperature min./max. -40 ... 80 °C
 Weight 0.065 kg

Technical data

Part No.	external	Wall thickness	Color	Length	Bending radius min.
	-Ø			Delivery unit	At 20 °C
R412009929	16 mm	1.35 mm	Blue	25 m	100 mm
R412014468	16 mm	1.35 mm	Silver gray	25 m	100 mm
R412009930	16 mm	1.35 mm	Blue	50 m	100 mm

price / m

Technical information

- External calibrated
- Halogen-free
- Excellent hydrolysis characteristics
- Suitable for dynamic laying
- Excellent UV resistance
- Resistant to microbes

Technical information

Material	
Material	Polyamide

Compressed air tubing, Series TU1-S-PAM

- suitable for dynamic laying
- Ø 22 mm
- Polyamide
- Max. working pressure at 20 °C 9 bar



Max. working pressure at 20 °C 9 bar
 Ambient temperature min./max. -40 ... 80 °C
 Weight 0.13 kg

Technical data

Part No.	external	Wall thickness	Color	Length	Bending radius min.
	-Ø			Delivery unit	At 20 °C
R412009997	22 mm	2 mm	Blue	25 m	125 mm

price / m

Technical information

- External calibrated
- Halogen-free
- Excellent hydrolysis characteristics
- Suitable for dynamic laying
- Excellent UV resistance
- Resistant to microbes

Technical information

Material	
Material	Polyamide

Compressed air tubing, Series TU1-S-TEF

- Ø 4-14 mm
- Polytetrafluorethylene
- suitable for use in food processing
- Max. working pressure at 20 °C 5.8-16 bar



Max. working pressure at 20 °C
Ambient temperature min./max.
Weight

See table below
-40 ... 200 °C
See table below

Technical data

Part No.	external	Wall thickness	Color	Length	Bending radius min.	Weight per meter
	-Ø			Delivery unit	At 20 °C	
R412004956	4 mm	0.75 mm	Transparent	25 m	18 mm	0.017 kg
R412004965	4 mm	0.75 mm	Red	100 m	18 mm	0.017 kg
R412004966	4 mm	0.75 mm	Blue	100 m	18 mm	0.017 kg
R412004967	4 mm	0.75 mm	Green	100 m	18 mm	0.017 kg
R412004152	4 mm	0.75 mm	Transparent	100 m	18 mm	0.017 kg
R412004957	6 mm	1 mm	Transparent	25 m	35 mm	0.037 kg
R412004076	6 mm	1 mm	Transparent	100 m	35 mm	0.037 kg
R412004958	8 mm	1 mm	Transparent	25 m	65 mm	0.048 kg
R412004153	8 mm	1 mm	Transparent	100 m	65 mm	0.048 kg
R412004959	10 mm	1 mm	Transparent	25 m	100 mm	0.072 kg
R412004154	10 mm	1 mm	Transparent	100 m	100 mm	0.072 kg
R412004960	12 mm	1 mm	Transparent	25 m	145 mm	0.102 kg
R412004155	12 mm	1 mm	Transparent	100 m	145 mm	0.102 kg
R412007517	14 mm	1.5 mm	Transparent	25 m	130 mm	0.172 kg

Part No.	Max. working pressure at 20 °C
R412004956	16 bar
R412004965	16 bar
R412004966	16 bar
R412004967	16 bar
R412004152	16 bar
R412004957	12 bar
R412004076	12 bar
R412004958	8.5 bar

Part No.	Max. working pressure at 20 °C
R412004153	8.5 bar
R412004959	7 bar
R412004154	7 bar
R412004960	5.8 bar
R412004155	5.8 bar
R412007517	7 bar

price / m

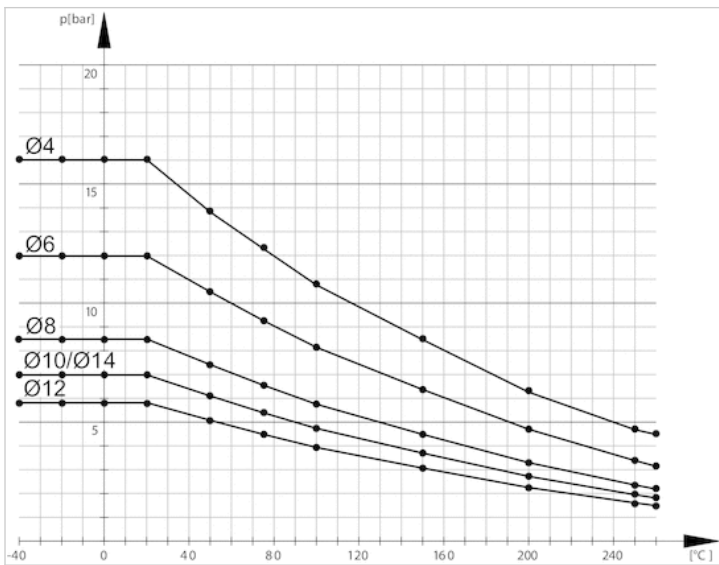
Technical information

Material

Material	Polytetrafluorethylene
----------	------------------------

Diagrams

Pressure-Temperature-Diagram



Compressed air tubing, Series TU1-S-PET

- suitable for dynamic laying
- Ø 4-16 mm
- Polyethylene
- suitable for use in food processing
- Max. working pressure at 20 °C 10-14 bar



Max. working pressure at 20 °C
Ambient temperature min./max.
Weight

See table below
-40 ... 60 °C
See table below

Technical data

Part No.	external	Wall thickness	Color	Length	Bending radius min.	Weight per meter
	-Ø			Delivery unit	At 20 °C	
R412014494	4 mm	0.75 mm	Natural	25 m	15 mm	0.008 kg
R412014501	4 mm	0.75 mm	Black	25 m	15 mm	0.008 kg
R412014495	6 mm	1 mm	Natural	25 m	30 mm	0.015 kg
R412014502	6 mm	1 mm	Black	25 m	30 mm	0.014 kg
R412014496	8 mm	1 mm	Natural	25 m	50 mm	0.021 kg
R412014503	8 mm	1 mm	Black	25 m	50 mm	0.022 kg
R412014497	10 mm	1.25 mm	Natural	25 m	40 mm	0.032 kg
R412014504	10 mm	1.25 mm	Black	25 m	40 mm	0.032 kg
R412014498	12 mm	1.5 mm	Natural	25 m	50 mm	0.046 kg
R412014505	12 mm	1.5 mm	Black	25 m	50 mm	0.046 kg
R412014499	14 mm	1.5 mm	Natural	25 m	75 mm	0.099 kg
R412014506	14 mm	1.5 mm	Black	25 m	75 mm	0.099 kg
R412014500	16 mm	2 mm	Natural	25 m	80 mm	0.099 kg
R412014507	16 mm	2 mm	Black	25 m	80 mm	0.099 kg

Part No.	Max. working pressure at 20 °C
R412014494	14 bar
R412014501	14 bar
R412014495	10 bar
R412014502	10 bar
R412014496	10 bar
R412014503	10 bar
R412014497	10 bar

Part No.	Max. working pressure at 20 °C
R412014504	10 bar
R412014498	10 bar
R412014505	10 bar
R412014499	10 bar
R412014506	10 bar
R412014500	10 bar
R412014507	10 bar

price / m

Technical information

Resistant to microbes
 Halogen-free
 Excellent hydrolysis characteristics
 Suitable for dynamic laying

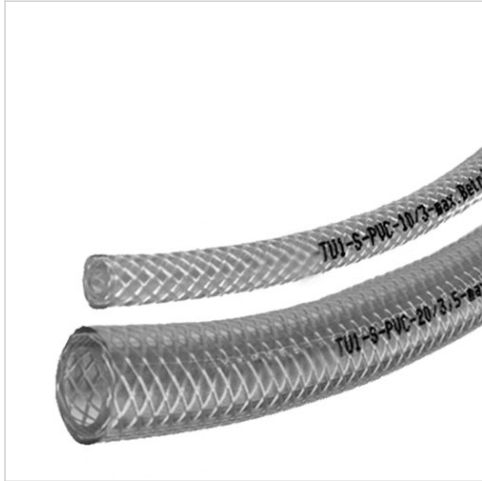
Technical information

Material

Material	Polyethylene
----------	--------------

Compressed air tubing, Series TU1-S-PVC

- Ø 10-26.8 mm
- Polyvinyl chloride
- Fabric-reinforced
- Max. working pressure at 20 °C 10-23 bar



Max. working pressure at 20 °C
Ambient temperature min./max.

See table below
0 ... 60 °C

Technical data

Part No.	external	Wall thickness	Color	Length	Bending radius min.
	-Ø			Delivery unit	At 20 °C
1820712300	10 mm	3 mm	Transparent	50 m	15 mm
1820712301	12 mm	3 mm	Transparent	50 m	25 mm
1820712302	14 mm	3 mm	Transparent	50 m	30 mm
1820712303	16 mm	3 mm	Transparent	50 m	40 mm
1820712304	19.8 mm	3.3 mm	Transparent	50 m	70 mm
1820712305	26.8 mm	3.7 mm	Transparent	50 m	130 mm

Part No.	Max. working pressure at 20 °C
1820712300	23 bar
1820712301	20 bar
1820712302	18 bar
1820712303	14 bar
1820712304	12 bar
1820712305	10 bar

price / m

Technical information

The fabric tubing is fastened with commercially available clamps. Ensure a torsion-free and torque-free connection.

Technical information

Material

Material

Polyvinyl chloride

Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



Visit us: [Emerson.com/Aventics](https://www.emerson.com/aventics)

Your local contact: [Emerson.com/contactus](https://www.emerson.com/contactus)



Emerson.com



[Facebook.com/EmersonAutomationSolutions](https://www.facebook.com/EmersonAutomationSolutions)



[LinkedIn.com/company/Emerson-Automation-Solutions](https://www.linkedin.com/company/Emerson-Automation-Solutions)



[Twitter.com/EMR_Automation](https://twitter.com/EMR_Automation)

An example configuration is depicted on the title page. The delivered product may thus vary from that in the illustration. Subject to change. This Document, as well as the data, specifications and other information set forth in it, are the exclusive property of AVENTICS GmbH. It may not be reproduced or given to third parties without its consent. Only use the AVENTICS products shown in industrial applications. Read the product documentation completely and carefully before using the product. Observe the applicable regulations and laws of the respective country. When integrating the product into applications, note the system manufacturer's specifications for safe use of the product. The data specified only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that the products are subject to a natural process of wear and aging.

The Emerson logo is a trademark and service mark of Emerson Electric Co. Brand logotype are registered trademarks of one of the Emerson family of companies. All other marks are the property of their respective owners. © 2017 Emerson Electric Co. All rights reserved. 2019-03



CONSIDER IT SOLVED™