



25 YEARS OF EXPERIENCE
Always High Quality Production



PRODUCT CATALOG COPPER TUBE & FITTINGS

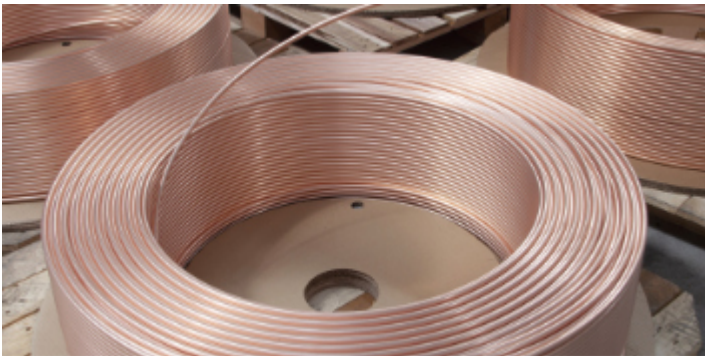
**High-quality
products
Perfectionist
approaches**





PRODUCT CATALOG

COPPER TUBE & FITTINGS



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25 years

We serve the ventilation,
heating and cooling
sectors with more than
25 years of experience.



With its high quality products and its perfectionist approaches to the customers need, Anadolu Bakır A.Ş. is the leading company in the HVAC sector and is also the most followed company.

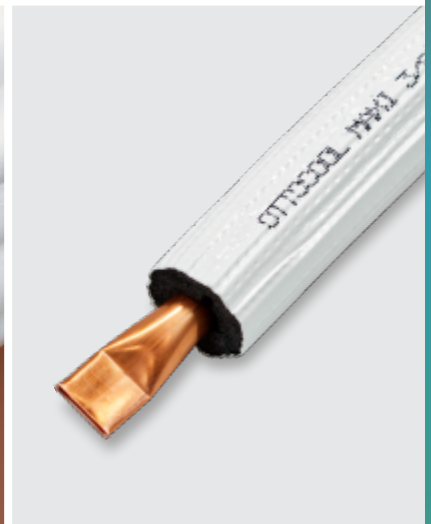
Anadolu Bakır A.Ş. meets its customers demands by offering them a wide range of products with Ottocool brand.

Ottocool Brand is the most preferred brand in the HVAC sector with its products such as RUBBER FOAM INSULATED COPPER TUBE, PE INSULATED COPPER TUBES, A/C INSTALLATION KITS, STRAIGHT COPPER TUBE, MEDICAL COPPER TUBE, LWC COPPER TUBE, PANCAKE COPPER COIL, CAPILLARY COPPER TUBE, COPPER FITTINGS and GAS TUBE.





PE-INSULATED COPPER TUBE



WHITE PE INSULATED COPPER TUBE

Suitable for air conditioning, refrigeration and industrial systems. Cu-Dhp 99,9% copper pipe insulated with an expanded polyethylene tube, closed cell and an external LDPE foil. Maximum Fire Safety with self-extinguishing DIN 4102-B1, SBI BL S1D0. Nontoxic gases and resistant to external chemical agents and ultra-violet rays.



Sustainability

Fully recyclable

Specificities

Unique aesthetical appearance

Excellent mechanical strength

Fire

Excellent flame extinguishing properties

SBI BL S1 D0

Health

Produced without (H) CFC

Complies to REACH

Complies to VOC (Volatile organic componental)

Complies to RoHS (Restriction of Hazardous Substances)

Certificates

Complies to the German EnEV

CE system 3 certified

Service temperatures

Wide service temperature range

Minimum -80 °C

Maksimum 95 °C (EN 14707)

Additional information

Standart Thickness: 6,9,13,19

Water

Closed cell structure for good water vapor barrier

Water vapor resistance $\mu \geq 5000$
(EN13469)

Water absorption WS05 (EN 13472)

Insulation

Semi-flexible thermoplastic foam

Excellent insulation properties

Lambda 0.040 W/mK at 40 °C
(EN ISO 8497)

Lambda 0.036 W/mK at 0 °C
(EN ISO 8497)

Pipe Diameter (inch)	1/4	3/8	1/2	1/2	5/8	3/4	7/8
Pipe Thickness (mm)	0,8	0,8	0,8	0,9	1	1	1,12
Insulation Thickness (mm)	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19
Operation Pressure (bar)	134	89	72	84	62	52	42
Coil Length (meter)	15/50	15/50	15/50	15/50	15/50	15/50	15/50

TECHNICAL SPECS OF COPPER PIPE

Chemical Composition	99,9% Cu-Dhp
Conformity	EN 12735 – 1
Unit Breaking Load	Min. R=220n/mm2
Elongation A%	A% min=45%
Physical Condition	Annealed
Internal Surface	Glossy, perfectly clean conforming ASTM B-280 and EN12735-1 legislation
Heat Conduction at 20°C	364W/mK
Condition	Sealed ends, dehumidified



WHITE TWIN PE INSULATED COPPER TUBE



Pipe Diameter (inch)	1/4 + 3/8	1/4 + 1/2	1/4 + 5/8	3/8 + 5/8	3/8 + 3/4	1/2 + 3/4
Pipe Thickness (mm)	0,8 +0,8	0,8+ 0,9	0,8 + 1	0,8 + 1	0,8 + 1	0,8 + 1
Insulation Thickness (mm)	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19
Operation Pressure (bar)	134-89	134-84	134-62	90-62	90-52	72-52
Coil Length (meter)	15-50	15-50	15-50	15-50	15-50	15-50

BLACK PE INSULATED COPPER TUBE

Suitable for air conditioning, refrigeration and industrial systems. Cu-Dhp 99,9% copper pipe insulated with an expanded polyethylene tube, closed cell and an external LDPE foil. Maximum Fire Safety with self-extinguishing DIN 4102-B1, SBI BL S1D0. Nontoxic gases and resistant to external chemical agents and ultra-violet rays.



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Additional information

Standart Thickness: 6,9,13,19

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Closed cell structure for good water vapor barrier

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Insulation

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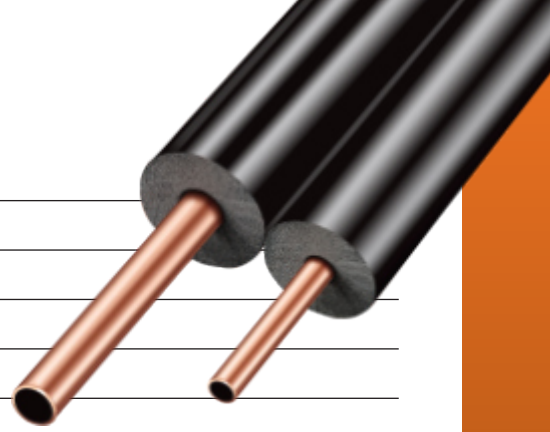
Lambda 0.040 W/mK at 40 °C (EN ISO 8497)

Lambda 0.036 W/mK at 0 °C (EN ISO 8497)

Pipe Diameter (inch)	1/4	3/8	1/2	1/2	5/8	3/4	7/8
Pipe Thickness (mm)	0,8	0,8	0,8	0,9	1	1	1,12
Insulation Thickness (mm)	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19
Operation Pressure (bar)	134	89	72	84	62	52	42
Coil Length (meter)	15/50	15/50	15/50	15/50	15/50	15/50	15/50

TECHNICAL SPECS OF COPPER PIPE

Chemical Composition	99,9% Cu-Dhp
Conformity	EN 12735 – 1
Unit Breaking Load	Min. R=220n/mm2
Elongation A%	A% min=45%
Physical Condition	Annealed
Internal Surface	Glossy, perfectly clean conforming ASTM B-280 and EN12735-1 legislation
Heat Conduction at 20°C	364W/mK
Condition	Sealed ends, dehumified



BLACK TWIN PE INSULATED COPPER TUBE



Pipe Diameter (inch)	1/4 + 3/8	1/4 + 1/2	1/4 + 5/8	3/8 + 5/8	3/8 + 3/4	1/2 + 3/4
Pipe Thickness (mm)	0,8 +0,8	0,8+ 0,9	0,8 + 1	0,8 + 1	0,8 + 1	0,8 + 1
Insulation Thickness (mm)	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19
Operation Pressure (bar)	134-89	134-84	134-62	90-62	90-52	72-52
Coil Length (meter)	15-50	15-50	15-50	15-50	15-50	15-50

PLATINA PE INSULATED COPPER TUBE

Suitable for air conditioning, refrigeration and industrial systems. Cu-Dhp 99,9% copper pipe insulated with an expanded polyethylene tube, closed cell and an external LDPE foil. Maximum Fire Safety with self-extinguishing DIN 4102-B1, SBI BL S1D0. Nontoxic gases and resistant to external chemical agents and ultra-violet rays.



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Minimum -80 °C

Maksimum 95 °C (EN 14707)

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Water vapor resistance $\mu \geq 10000$ (EN13469)

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Insulation

Semi-flexible thermoplastic foam

Excellent insulation properties

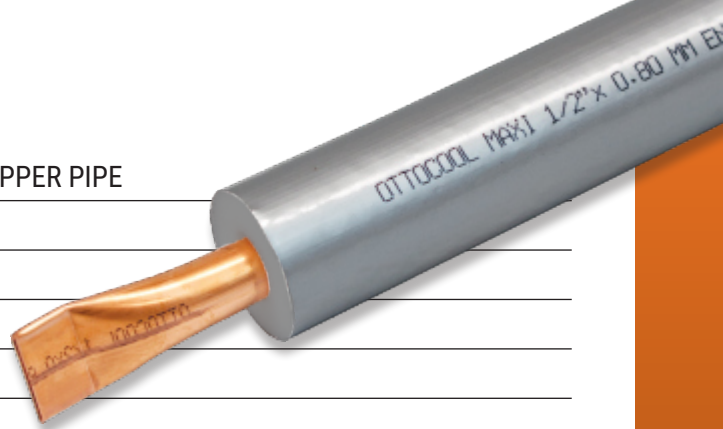
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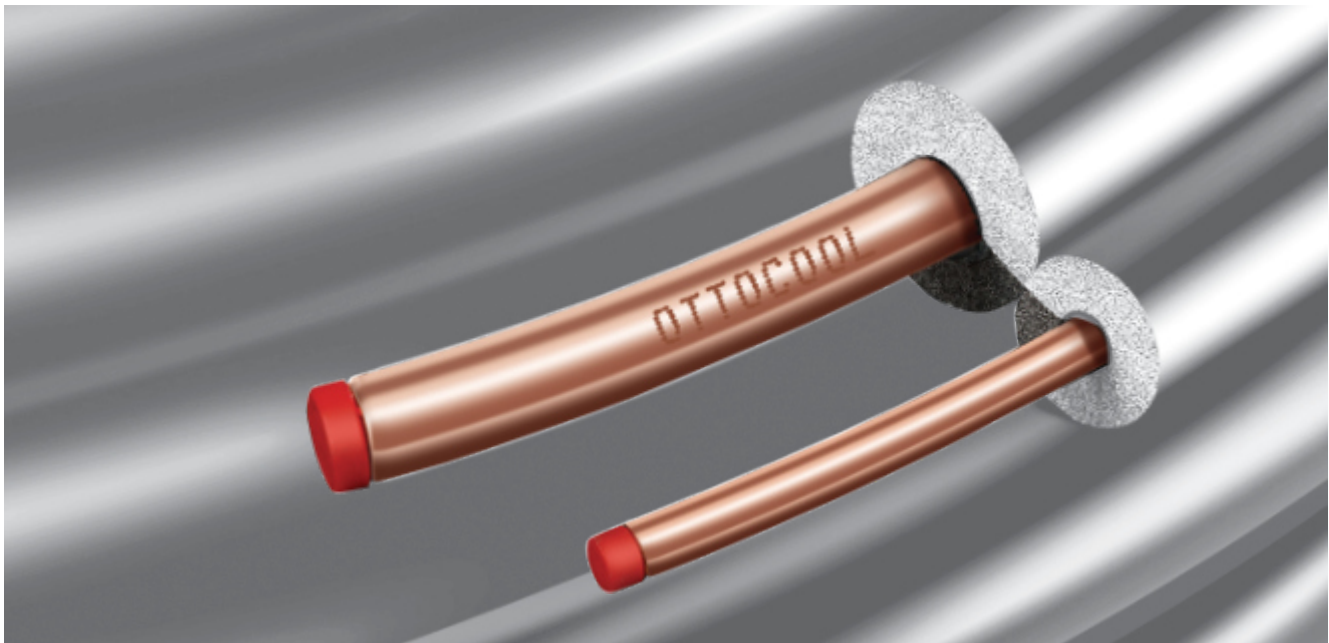
Pipe Diameter (inch)	1/4	3/8	1/2	1/2	5/8	3/4	7/8
Pipe Thickness (mm)	0,8	0,8	0,8	0,9	1	1	1,12
Insulation Thickness (mm)	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19
Operation Pressure (bar)	134	89	72	84	62	52	42
Coil Length (meter)	15/50	15/50	15/50	15/50	15/50	15/50	15/50

TECHNICAL SPECS OF COPPER PIPE

Chemical Composition	99,9% Cu-Dhp
Conformity	EN 12735 – 1
Unit Breaking Load	Min. R=220n/mm2
Elongation A%	A% min=45%
Physical Condition	Annealed
Internal Surface	Glossy, perfectly clean conforming ASTM B-280 and EN12735-1 legislation
Heat Conduction at 20°C	364W/mK
Condition	Sealed ends, dehumified



PLATINA TWIN PE INSULATED COPPER TUBE



Pipe Diameter (inch)	1/4 + 3/8	1/4 + 1/2	1/4 + 5/8	3/8 + 5/8	3/8 + 3/4	1/2 + 3/4
Pipe Thickness (mm)	0,8 +0,8	0,8+ 0,9	0,8 + 1	0,8 + 1	0,8 + 1	0,8 + 1
Insulation Thickness (mm)	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19	6-9-13-19
Operation Pressure (bar)	134-89	134-84	134-62	90-62	90-52	72-52
Coil Length (meter)	15-50	15-50	15-50	15-50	15-50	15-50

PE-INSULATED COPPER TUBE PRODUCT CATEGORIES

Insulation Type: Standart

Pipe Diameter (inch)	1/4	3/8	1/2	5/8	3/4	7/8
OTTOCOOL SPLIT	0.7 mm	0.7 mm	0.7 mm	0.8 mm		
OTTOCOOL POLAR	0.75 mm	0.75	0.75 mm	0.9 mm	0.9 mm	
OTTOCOOL MAXI	0.8 mm	0.8 mm	0.8 mm	1.0 mm	1.0 mm	1.12 mm
OTTOCOOL PLUS	1.0 mm	1.0 mm	1.0mm	1.0 mm	1.0 mm	1.12 mm

Sustainability

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Specificities

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Excellent mechanical strength

Fire

Excellent flame extinguishing properties

SBI BL S1 DO

Health

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Service temperatures

Wide service temperature range

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Maksimum 95 °C (EN 14707)

Additional information

Standart Thickness: 6,9,13,19

Water

Closed cell structure for good water vapor barrier

Water vapor resistance $\mu \geq 5000$
(EN13469)

Water absorption WS05 (EN 13472)

Insulation

Semi-flexible thermoplastic foam

Excellent insulation properties

Lambda 0.040 W/mK at 40 °C
(EN ISO 8497)

Lambda 0.036 W/mK at 0 °C
(EN ISO 8497)



PE-INSULATED COPPER TUBE PRODUCT CATEGORIES

Insulation Type: Platina

Pipe Diameter (inch)	1/4	3/8	1/2	5/8	3/4	7/8
OTTOCOOL PLATINA SPLIT	0.7mm	0.7mm	0.7mm	0.8mm		
OTTOCOOL PLATINA POLAR	0.75mm	0.75	0.75mm	0.9mm	0.9mm	
OTTOCOOL PLATINA MAXI	0.8mm	0.8mm	0.8mm	1.0mm	1.0mm	1.12mm
OTTOCOOL PLATINA PLUS	1.0mm	1.0mm	1.0mm	1.0mm	1.0mm	1.12mm

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Standart Thickness: 6,9,13,19

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Closed cell structure for good water vapor barrier

Water vapor resistance $\mu \geq 10000$ (EN13469)

Water absorption WS05 (EN 13472)

Insulation

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Excellent insulation properties

Lambda 0.040 W/mK at 40 °C (EN ISO 8497)

Lambda 0.036 W/mK at 0 °C (EN ISO 8497)



RUBBER FOAM INSULATED COPPER TUBE

Effective solutions for cooling, air conditioning and industrial systems. Gets a maximum saving with low coefficient of thermal conductivity (0,034W/mK). Maximum Fire Safety with EN 13501-1 B-s2 d0. Nontoxic gases and smokes during the fire. Rubber Insulated Copper Tube is suitable also for food industry, subways and submarines. Environmentally friendly, not contain HCFC- GFC.



TECHNICAL SPECS OF RUBBER INSULATION

Heat Transfer Coefficient EN 12667	0,039 W/mK (25 C)
	0,040 W/mK (50 C)
	0,041 W/mK (+75 C)
Water Vapor Diffusion Resistance	> 7.000
Coefficient EN 13469 (u)	
Fire Classification EN 13501-1	BL-s2-d0
Fire Classification BS 476	Class 0
Corrosion Risk	DIN 1988/7 Certified
Temperature Resistance °C	-45 / + 116 (Pipe)

TECHNICAL SPECS OF COPPER PIPE

Chemical Composition	99,9% Cu-Dhp
Conformity	EN 12735 – 1
Unit Breaking Load	Min. R=220n/mm ²
Elongation A%	A% min=45%
Physical Condition	Annealed
Internal Surface	Glossy, perfectly clean conforming ASTM B-280 and EN12735-1 legislation
Heat Conduction at 20°C	364W/mK
Condition	Sealed ends, dehumidified



Pipe Diameter (inch)	1/4	3/8	1/2	1/2	5/8	3/4	7/8
Pipe Thickness (mm)	0,8	0,8	0,81	0,9	1	1	1,2
Insulation Thickness (mm)	6/9/13	6/9/13	6/9/13	6/9/13	6/9/13	6/9/13	6/9/13
Operation Pressure (bar)	134	95	72	84	70	58	52
Coil Length (meter)	15-50	15-50	15-50	15-50	15-50	15-50	15-50

Pallet Composition For Container

Vehicle type	40'DC	20'DC
Number of Loadable Pallets	45	21

Insulated Copper Tube

50 m			
Dimension	6mm	9mm	13 mm
1/4"	18	16	15
3/8"	17	15	14
1/2"	14	13	13
5/8"	*	12	11
3/4"	*	12	10
7/8"	*	*	*

30 m			
Dimension	6mm	9mm	13 mm
1/4"	22	19	14
3/8"	21	18	13
1/2"	15	15	12
5/8"	*	14	10
3/4"	*	11	10
7/8"	*	11	10

25 m			
Dimension	6mm	9mm	13 mm
1/4"	24	22	17
3/8"	23	21	16
1/2"	18	17	13
5/8"	*	16	12
3/4"	*	13	11
7/8"	*	10	11

20 m			
Dimension	6mm	9mm	13 mm
1/4"	25	23	17
3/8"	24	22	16
1/2"	19	18	13
5/8"	*	16	12
3/4"	*	14	11
7/8"	*	11	11

Twin Insulated Copper Tube

50 m			
Dimension	6mm	9mm	13 mm
1/4" + 3/8"	12	11	10
1/4" + 1/2"	11	10	9
1/4" + 5/8"	*	10	8
3/8" + 1/2"	11	10	9
3/8" + 5/8"	*	9	7
3/8" + 3/4"	*	9	6
1/2" + 3/4"	*	9	6

30 m			
Dimension	6mm	9mm	13 mm
1/4" + 3/8"	14	13	11
1/4" + 1/2"	13	12	10
1/4" + 5/8"	*	11	9
3/8" + 1/2"	*	10	10
3/8" + 5/8"	*	11	7
3/8" + 3/4"	*	10	6
1/2" + 3/4"	*	10	6

25 m			
Dimension	6mm	9mm	13 mm
1/4" + 3/8"	15	14	12
1/4" + 1/2"	14	13	11
1/4" + 5/8"	*	11	10
3/8" + 1/2"	13	12	9
3/8" + 5/8"	*	12	8
3/8" + 3/4"	*	11	7
1/2" + 3/4"	*	10	6

20 m			
Dimension	6mm	9mm	13 mm
1/4" + 3/8"	15	14	12
1/4" + 1/2"	14	13	11
1/4" + 5/8"	*	11	10
3/8" + 1/2"	13	12	9
3/8" + 5/8"	*	12	8
3/8" + 3/4"	*	11	7
1/2" + 3/4"	*	10	6

Pallet Composition For Truck

Vehicle type	10 WHEEL TRUCK	40 FOOT TRUCK	TRUCK	40' HC
Number of Loadable Pallets	24	30	51	45

Insulated Copper Tube

50 m			
Dimension	6mm	9mm	13 mm
1/4"	20	19	16
3/8"	19	18	15
1/2"	17	15	13
5/8"	*	13	11
3/4"	*	12	10
7/8"	*	*	*

30 m			
Dimension	6mm	9mm	13 mm
1/4"	26	24	17
3/8"	25	22	16
1/2"	18	17	14
5/8"	*	16	12
3/4"	*	13	11
7/8"	*	12	10

25 m			
Dimension	6mm	9mm	13 mm
1/4"	27	25	18
3/8"	26	23	17
1/2"	19	18	15
5/8"	*	17	13
3/4"	*	14	12
7/8"	*	13	11

20 m			
Dimension	6mm	9mm	13 mm
1/4"	26	26	20
3/8"	25	25	19
1/2"	21	19	17
5/8"	*	17	15
3/4"	*	14	14
7/8"	*	13	13

Twin Insulated Copper Tube

50 m			
Dimension	6mm	9mm	13 mm
1/4" + 3/8"	15	12	10
1/4" + 1/2"	14	11	10
1/4" + 5/8"	*	10	8
3/8" + 1/2"	14	10	9
3/8" + 5/8"	*	9	7
3/8" + 3/4"	*	9	7
1/2" + 3/4"	*	9	7

30 m			
Dimension	6mm	9mm	13 mm
1/4" + 3/8"	16	14	12
1/4" + 1/2"	15	13	11
1/4" + 5/8"	*	12	10
3/8" + 1/2"	*	12	10
3/8" + 5/8"	*	12	10
3/8" + 3/4"	*	11	9
1/2" + 3/4"	*	10	8

25 m			
Dimension	6mm	9mm	13 mm
1/4" + 3/8"	17	15	13
1/4" + 1/2"	16	14	12
1/4" + 5/8"	*	13	11
3/8" + 1/2"	14	13	11
3/8" + 5/8"	*	13	11
3/8" + 3/4"	*	12	10
1/2" + 3/4"	*	11	9

20 m			
Dimension	6mm	9mm	13 mm
1/4" + 3/8"	19	19	15
1/4" + 1/2"	18	16	14
1/4" + 5/8"	*	15	13
3/8" + 1/2"	*	15	13
3/8" + 5/8"	*	15	13
3/8" + 3/4"	*	13	12
1/2" + 3/4"	*	13	11



A/C INSTALLATION KITS



A/C INSTALLATION KITS

Ideal solution for air conditioning and refrigeration systems: Ottocool "Ready to Use" Montage Kit. Closed-cell expanded Polyethylene. Gets a Maximum saving with low coefficient of thermal conductivity (0,036W/mK). Maximum Fire Safety with self-extinguishing CL. 1- DIN4102 B2. White external extruded PE-Layer, nontoxic gases and resistant to external chemical agents and ultra-violet rays.



TECHNICAL SPECS OF PE INSULATION

Heat Conductivity Coefficient DIN 52613 and 52612	0,036 W/mK (0 °C)
Water Vapor Diffusion Resistance Coefficient (u)	> 5.000
Fire Classification DIN 4102-B2	Class 1
Insulation density	35 kg/m3
Operating Temperature Range	-80 °C/ + 95 °C

TECHNICAL SPECS OF PE COPPER PIPE

Chemical Composition	99,9% Cu-Dhp
Conformity	EN 12735 - 1
Unit Breaking Load	Min. R=220N/mm ²
Elongation A%	A% min=45%
Physical Condition	Annealed
Internal Surface	Glossy, perfectly clean conforming ASTM B-280 and EN12735-1 legislation
Heat Conduction at 20°C	364W/mK
Condition	Sealed ends, dehumidified

INSULATED COPPER TUBE- MONTAGE KIT VRF SYSTEM

Pipe Diameter (inch)	1/4 + 3/8	1/4 + 1/2	1/4 + 1/2	1/4 + 5/8	3/8 + 5/8	3/8 +3/4	1/2 + 3/4
Pipe Thickness (mm)	0,8 +0,8	0,8 + 0,8	0,8+ 1,0	0,8 + 1	0,8 + 1,0	0,8 + 1,0	0,8 + 1,0
Insulation Thickness (mm)	6+6	6+6	6-9-13-19	6+6	6+6	6+6	6+6
Operation Pressure (bar)	94-89	94-72	94-62	94-62	89-62	89-52	72-52
Coil Length (meter)	3-4-5-7-10-15	3-4-5-7-10-15	3-4-5-7-10-15	3-4-5-7-10-15	3-4-5-7-10-15	3-4-5-7-10-15	3-4-5-7-10-15

INSULATED COPPER TUBE- MONTAGE KIT SPLIT SYSTEM

Pipe Diameter (inch)	1/4 + 3/8	1/4 + 1/2	1/4 +1/2	1/4 + 5/8	3/8 + 5/8	3/8 +3/4	1/2 + 3/4
Pipe Thickness (mm)	0,7 +0,7	0,7 + 0,7	0,7+ 0,8	0,8 + 1	0,7 + 0,8	0,7 + 0,9	0,7 + 0,9
Insulation Thickness (mm)	6+6	6+6	6+6	6+6	6+6	6+6	6+6
Operation Pressure (bar)	94-61	94-58	94-52	61-52	61-52	61-47	58-47
Coil Length (meter)	3-4-5-7-10-15	3-4-5-7-10-15	3-4-5-7-10-15	3-4-5-7-10-15	3-4-5-7-10-15	3-4-5-7-10-15	3-4-5-7-10-15



STRAIGHT COPPER TUBE



STRAIGHT COPPER TUBE



The straight copper tubes are used for air conditioning & refrigeration industries, electrical industries and sanitary purposes. Cu-Dhp 99,9% copper pipe (EN 12735-1) sealed ends and dehumidified, R290 non-annealed and R220 annealed in straight form, high resistance to pitting corrosion.

Soft Straight Copper Tubes

Mechanical properties according to EN 12735-1 for soft copper tubes

Temper	Temper designation	Tensile strength (N/mm ²)	Elongation (%) A5	Hardness HV5 (approximately)
Soft	R220	Min.220	40	40 -70

Delivery conditions and packaging for soft copper tubes

Temper designation	Outer Diameter (mm)	Wall thickness (mm)	Delivery Condition	Packaging
R220	5 – 108	0,5 –2,5	up to 6 m straight length	Wooden Box

Hard Straight Copper Tubes

Mechanical properties according to EN 12735-1 for hard copper tubes

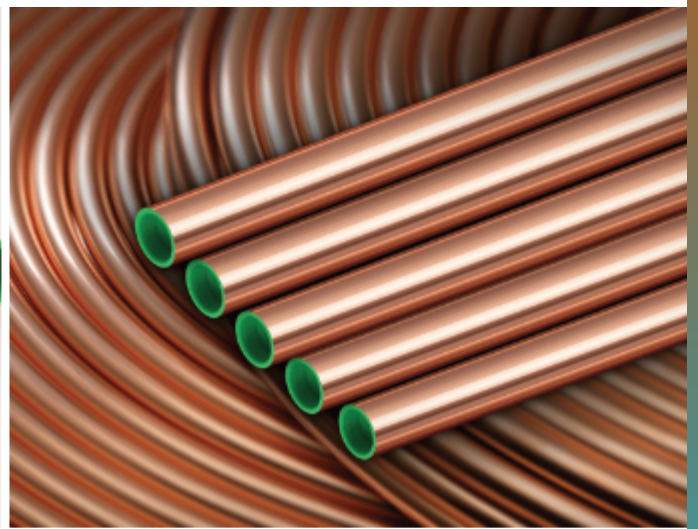
Temper	Temper designation	Tensile strength (N/mm ²)	Elongation (%) A5	Hardness HV5 (approximately)
Hard	R220	Min.220	40	40 -70

Delivery conditions and packaging for soft copper tubes

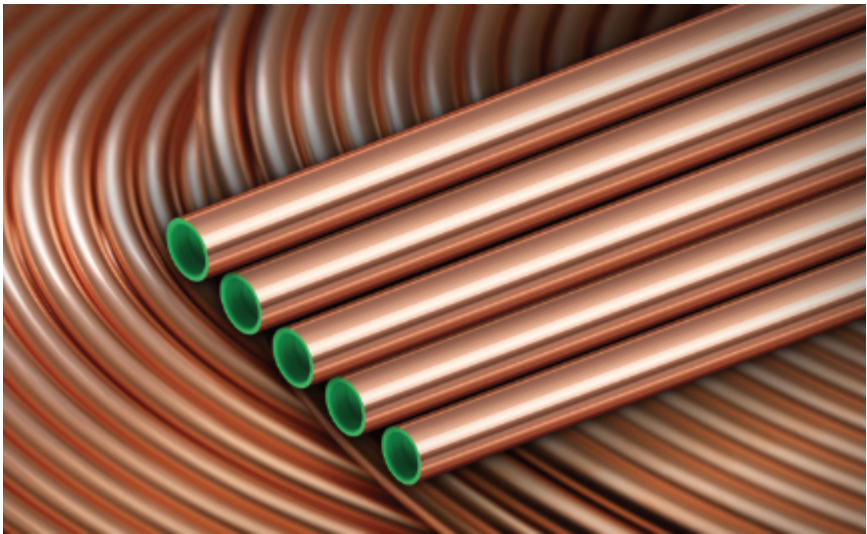
Temper designation	Outer Diameter (mm)	Wall thickness (mm)	Delivery Condition	Packaging
R220	5 – 108	0,5 –2,5	up to 6 m straight length	In Bundles, Wrapped in Plastic foil



MEDICAL COPPER TUBE



MEDICAL COPPER TUBE



The Medical Copper Tube (Cu-Dhp 99,9%) is suitable for medical gas system, gas mixture, air system and vacuum systems as well as anesthetic evacuation gases in accordance with the corresponding standards. Medical Copper Tube is subjected to a rigorous internal cleaning process according to the technical specifications provided by the EN 13348.

Diameter (mm)	Wall Thickness (mm)	Packing
8	1	
10	0,6	
10	1	
12	0,6	5 meter
12	1	Straight Copper Tube
15	0,7	
15	1	
22	1	
22	1,5	
28	1	

Diameter (mm)	Wall Thickness (mm)	Packing
28	1,5	
35	1	
35	1,5	
42	1	5 meter
42	1	Straight Copper Tube
54	1,5	
54	2	
76	1,5	
76	2	
108	2,5	

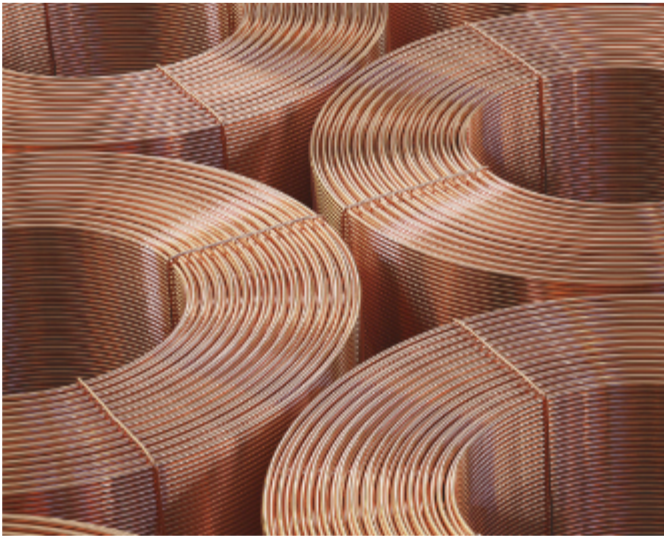




LWC (LEVEL WOUND COIL) COPPER TUBE



LWC COPPER TUBE EN12735-1



The LWC Copper Tube (Cu-Dhp 99,9%) is mostly applied to air conditioning, refrigeration and general engineering applications. LWC Copper Tube is produced according to the EN 12735-1 standard and it also complies with the ASTM B280 specifications.

General Specifications

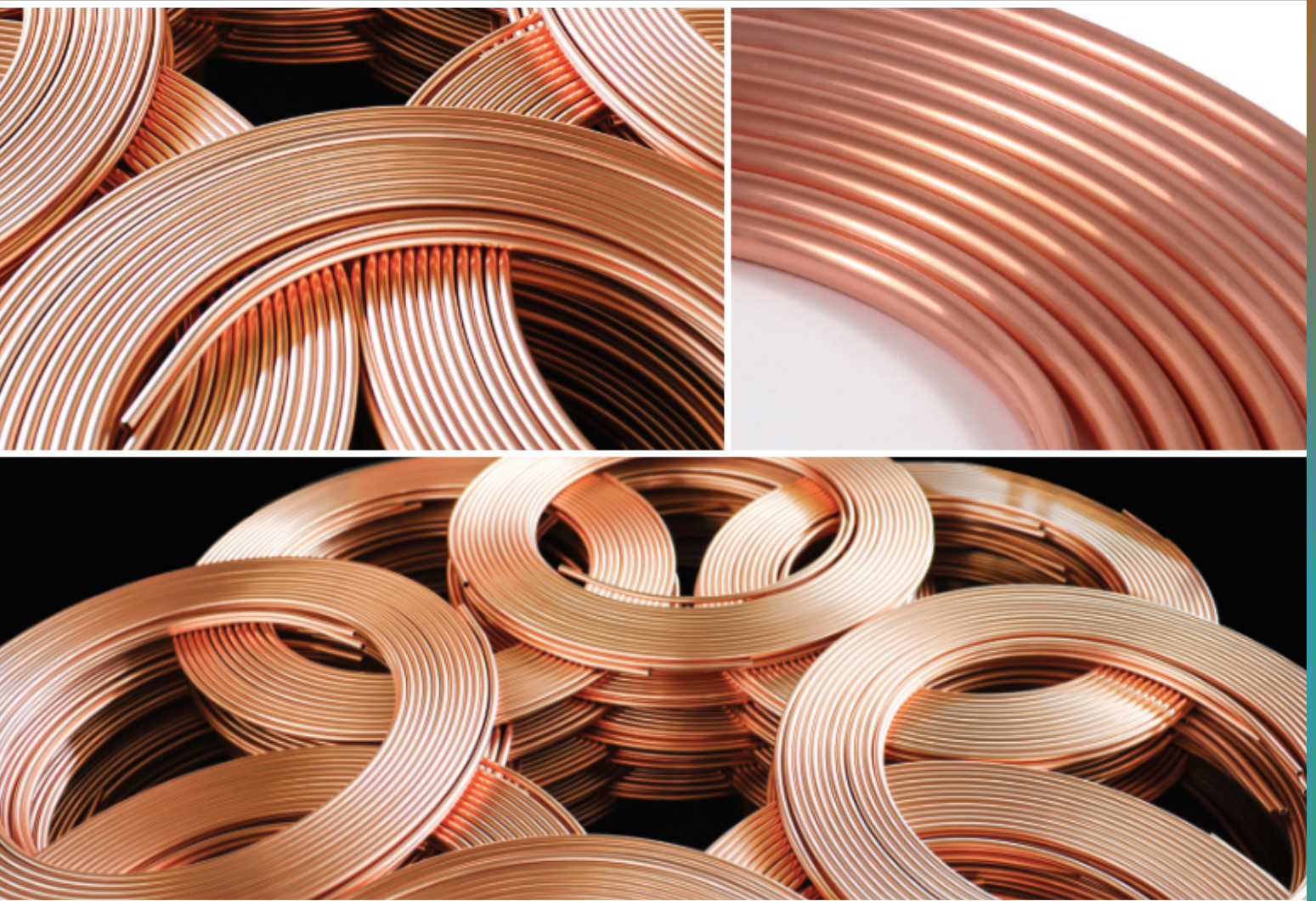
Sizes		Material	Temper		Coil Weight	Form of packing	
Outside Diameter (mm) 4-19,05	Wall Thickness (mm) 0,28 - 1,10	Cu: 99,90% Phosphorous: 0,015- 0,040%	Light Annealed (050)	Soft Annealed (060)	80-250 kg	With Bobbin	Bobbinless
		C12200 DHP (ASTM B68, B75, B88)	can also be produced as hard drawn temper			Cardboard & Wooden Reels	Cardboard
		Cu – DHP (EN 12735. EN 12449)				Stacked on pallets and shrink wrapped	

PRODUCT RANGE

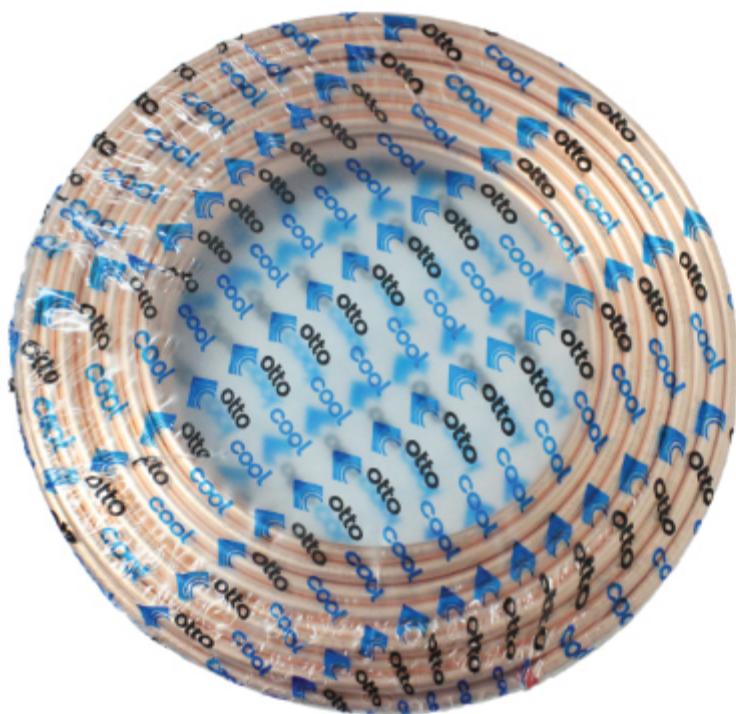
W.T	O.D.	mm	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.63	0.7	0.76	0.8	0.9	1	1.2
	mm	Inch	0.012	0.014	0.016	0.018	0.020	0.022	0.024	0.025	0.028	0.030	0.031	0.035	0.039	0.047
4	...				✓	✓	✓	✓	✓	✓	✓	✓	✓			
4.76	3.16				✓	✓	✓	✓	✓	✓	✓					
6.35	1/4			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
7.93	5/16		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
9.52	3/8		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
12	...			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
12.7	1.2			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
15.87	5.8				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16	...						✓	✓	✓	✓	✓	✓	✓	✓	✓	
18	...								✓	✓	✓	✓	✓	✓	✓	
19.05	3/4								✓	✓	✓	✓	✓	✓	✓	✓



PANCAKE COPPER COIL



PANCAKE COPPER COIL



The Pancake Copper Tube (Cu-Dhp 99,9% copper pipe (EN 12735-1) end- capped, R220 annealed in coil form, high resistance to pitting corrosion) is mainly applied to air conditioning and refrigeration industry and installation. According the EN standard the Pancake tube has good bending properties for usage in utility supplies such as plumbing installations, gas transport networks, air conditioning systems and refrigerant piping. These products are supplied in the annealed form. All coils are cleaned and capped to keep contaminants from entering the tube. Then they are individually labeled, shrink wrapped and boxed in cardboard cartons for ease of handling and distribution

Pancake Copper Tubes

Technical specs according to EN12735-1

Temper	Temper designation	Tensile strength (N/mm ²)	Elongation (%) A5	Hardness HV5 (approximately)
Soft	R220	Min.220	40	40 -70

Delivery conditions and packaging for soft copper tubes

Temper designation	Outer Diameter (mm)	Wall thickness (mm)	Delivery Condition	Packaging
R220	5 - 22	0,5 -2,0	15-50 m coil	Carton box



CAPILLARY TUBE



CAPILLARY TUBE

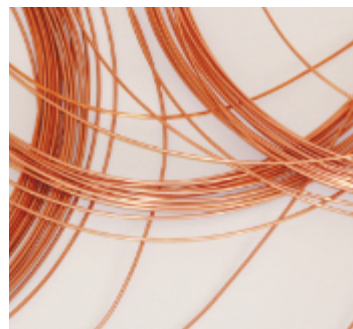


Ottocool capillary copper tube can be produced in both naked and PE or PVC insulated.

Can be produced up to 300 kg as coil, hard temper, half hard or annealed.

Ottocool capillary copper tube complies to the EN12449 and EN12450. And can also be produced according to another standard if requested.

Ideal to be used in industrial coolers, hot and cold air regulators, thermocouples, thermometers and pressure gauges.



COPPER FITTINGS



COPPER FITTINGS



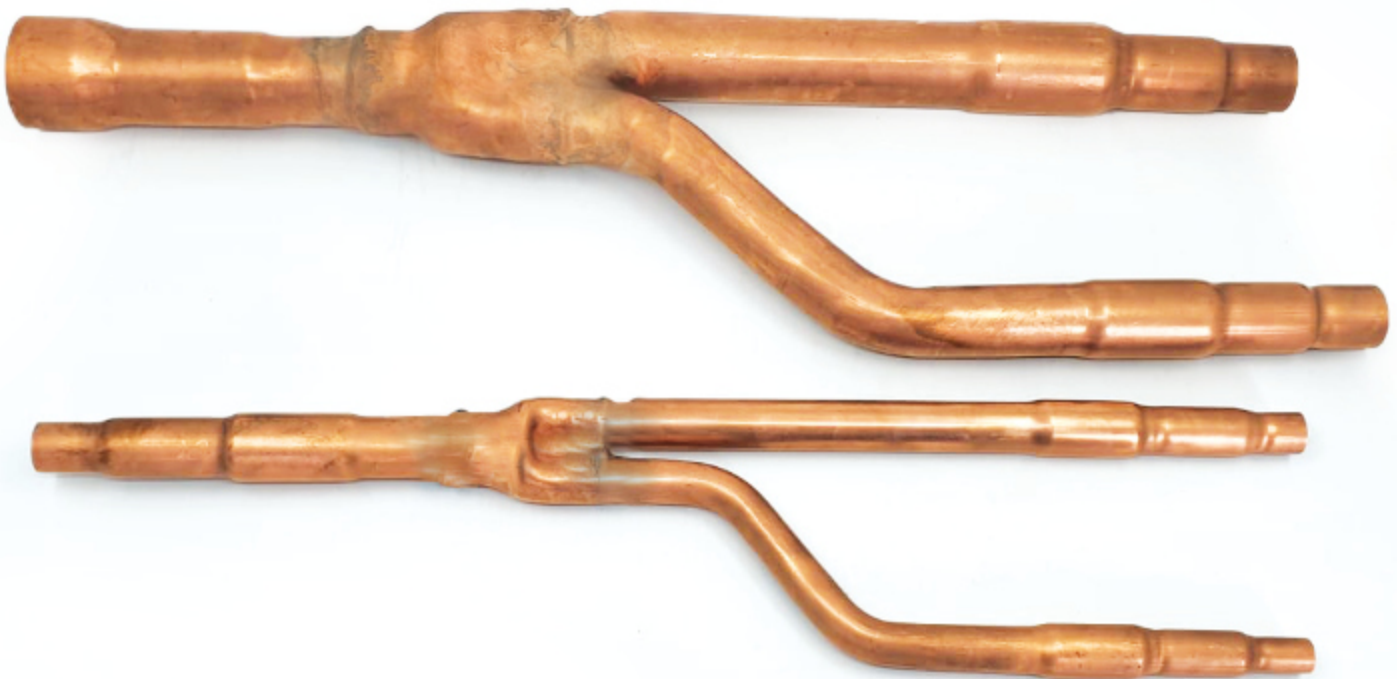
Copper Fittings provide ideal solutions for Health Care Facilities Gas and Vacuum Systems and the Compressed Gas Association, Pamphlet with the Standards ANSI/ASME B16.22 and EN 12541.

Metrical diameter: Sizes varies between 6mm and 133mm

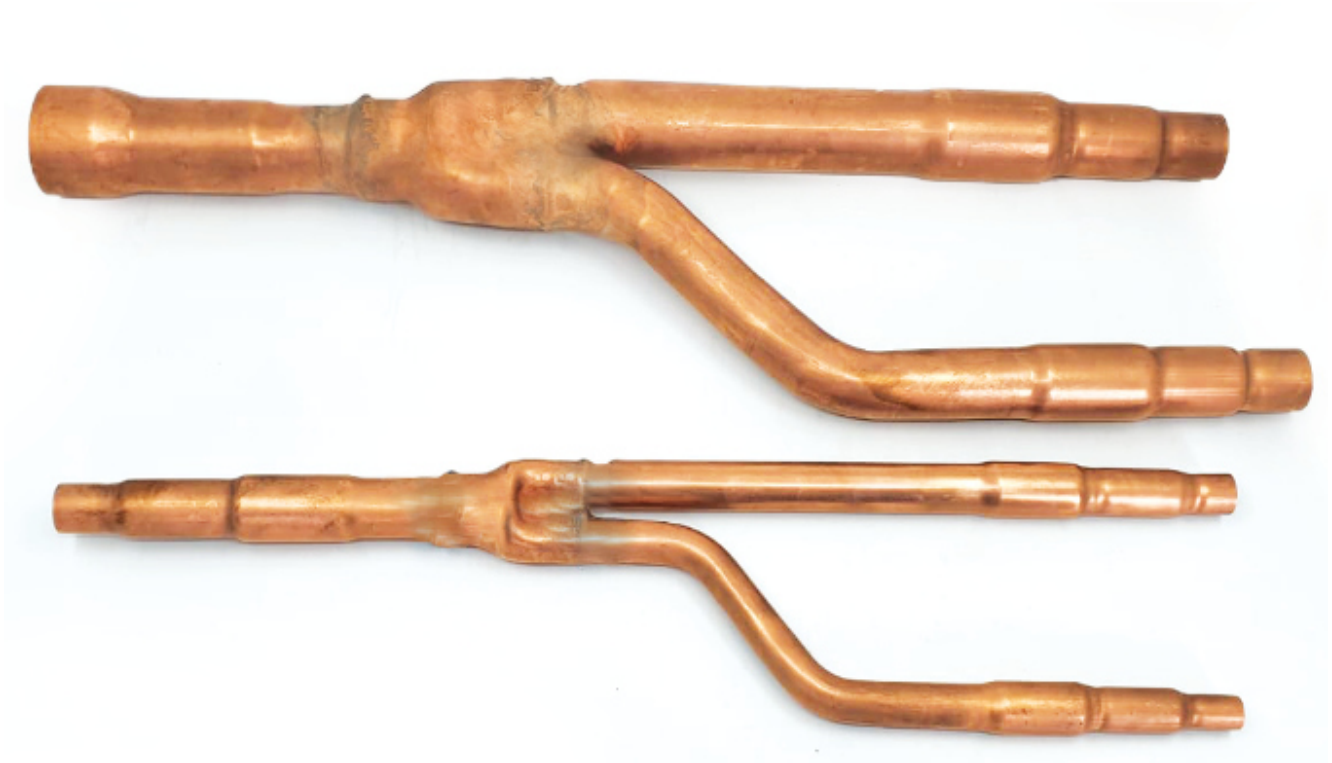
Inch diameter: Sizes varies between 1/4" and 4.1/8"



A/C COPPER JOINTS



A/C COPPER JOINTS



Typical centre for air conditioning systems, consist of one or more outdoor units and multiple indoor units.

The refrigerant Tube going from the outdoor units to the indoor devices are separated with Ottocool Joints.

Ottocool Joints are produced by us and are suitable for all air conditioners units. List and technical specs are as follow;

A/C COPPER JOINTS

OTTOCOOL A/C JOINTS

MODEL

DIMENSIONS

DAIKIN

KHRQ22M20T	FOR GAS A= 7/8-3/4-5/8 B= 3/4-5/8-1/2 C= 3/4-5/8-1/2	FOR LIQUID D= 1/2-3/8 E= 3/8-1/4 F= 3/8-1/4
KHRQ22M29-T9	FOR GAS A= 3/4 -7/8- 1 B= 3/4-5/8-1/2 C= 5/8-1/2-3/8	FOR LIQUID D= 1/2-3/8 E= 3/8-1/4 F= 3/8-1/4
KHRQ22M64T	FOR GAS A= 1 -1 1/8 B= 1 - 7/8 - 3/4 C= 3/4-5/8-1/2	FOR LIQUID D= 1/2 - 5/8 E= 5/8-1/2-3/8 F= 1/2-3/8-1/4
KHRQ22M75T	FOR GAS A= 1 3/8 - 1 5/8 B= 1 3/8 - 1 1/8 - 1 C= 1 1/8- 1 - 7/8 - 3/4	FOR LIQUID D= 5/8-3/4-7/8 E= 3/4-5/8-1/2 F= 5/8-1/2-3/8
BHFQ22M1007	FOR GAS A= 1 3/8 - 1 5/8 B= 1 3/8 - 1 1/8 - 1 C= 1 1/8- 1 - 7/8 - 3/4	FOR LIQUID D= 5/8-3/4-7/8 E= 3/4-5/8-1/2 F= 5/8-1/2-3/8
BHFQ22M1517	FOR GAS A= 1 3/8-1 1/8 B= 1 3/8 - 1 1/8 - 1 C= 1 1/8- 1 - 7/8 - 3/4	FOR LIQUID D= 5/8- 3/4 E= 3/4-5/8-1/2 F= 5/8-1/2-3/8

FUJITSU

UTR-BP090X	FOR GAS A= 7/8-3/4-5/8 B= 7/8-3/4-5/8-1/2 C= 5/8-1/2-3/8	FOR LIQUID D= 3/8 - 1/2 E= 1/2-3/8-1/4 F= 1/2-3/8-1/4
UTR-BP180X	FOR GAS A= 1 1/8 - 7/8 B= 1 1/8- 7/8 - 3/4 C= 7/8-3/4-5/8-1/2	FOR LIQUID D= 5/8-1/2-3/8 E= 5/8-1/2-3/8 F= 1/2-3/8-1/4
UTR-CP567X	FOR GAS A= 7/8-1 3/8 - 1 5/8 B= 1 3/8- 1 1/8 - 1 C= 1 1/8- 1 - 7/8 - 3/4	FOR LIQUID D= 3/4-5/8 E= 5/8-1/2-3/8 F= 5/8-1/2-3/8
UTR-BP567X	FOR GAS A= 1 3/8 - 1 5/8 B= 1 1/8 - 1 - 7/8 C= 1 1/8 - 1 - 7/8	FOR LIQUID D= 3/4-5/8 E= 3/4-5/8-1/2 F= 5/8-1/2-3/8

GREE AND YORK

FQ-01A/A	FOR GAS A= 3/4-5/8-1/2 B= 5/8-1/2 C= 5/8-1/2-3/8	FOR LIQUID D= 1/2-3/8 E= 3/8-1/4 F= 3/8-1/4
FQ-01B/A	FOR GAS A= 7/8-3/4-5/8 B= 7/8-3/4-5/8-1/2 C= 5/8-1/2-3/8	FOR LIQUID D= 3/8 - 1/2 E= 1/2-3/8-1/4 F= 1/2-3/8-1/4
FQ-02A	FOR GAS A= 1 1/8 - 1 3/8 B= 1 1/8 - 1 - 7/8 - 3/4 C= 7/8-3/4-5/8-1/2	FOR LIQUID D= 3/4-5/8 E= 5/8-1/2-3/8 F= 1/2-3/8-1/4
FQ-03A	FOR GAS A= 1 3/8 - 1 5/8 B= 1 3/8 - 1 1/8 - 1 C= 1 1/8- 1 - 7/8 - 3/4	FOR LIQUID D= 3/4-5/8 E= 3/4-5/8-1/2 F= 5/8-1/2-3/8
ML01A	FOR GAS A= 1 3/8 - 1 5/8 B= 1 3/8 - 1 1/8 - 1 C= 1 1/8- 1 - 7/8 - 3/4	FOR LIQUID D= 3/4-5/8 E= 3/4-5/8-1/2 F= 5/8-1/2-3/8
FQ-04A	FOR GAS A= 1 3/8 - 1 5/8 B= 1 3/8 - 1 1/8 - 1 C= 1 3/8 - 1 1/8 - 1	FOR LIQUID D= 7/8-3/4-5/8 E= 7/8-3/4-5/8-1/2 F= 3/4-5/8-1/2

HAIER

FQG-B335A	FOR GAS A= 7/8-3/4-5/8 B= 7/8-3/4-5/8-1/2 C= 5/8-1/2-3/8	FOR LIQUID D= 1/2-3/8 E= 3/8-1/4 F= 3/8-1/4
FQG-B506A	FOR GAS A= 1 1/8 - 1 - 7/8 B= 1 1/8- 1 - 7/8-3/4 C= 7/8-3/4-5/8-1/2	FOR LIQUID D= 3/8 - 1/2 E= 1/2-3/8-1/4 F= 1/2-3/8-1/4
FQG-B730A	FOR GAS A= 1 1/8 - 1 - 7/8 B= 1 1/8- 1 - 7/8-3/4 C= 7/8-3/4-5/8-1/2	FOR LIQUID D= 5/8-3/4 E= 5/8-1/2-3/8 F= 1/2-3/8-1/4
FQG-B1350A	FOR GAS A= 1 3/8 - 1 5/8 B= 1 3/8 - 1 1/8 - 1 C= 1 1/8- 1 - 7/8 - 3/4	FOR LIQUID D= 5/8-3/4 E= 3/4-5/8-1/2 F= 5/8-1/2-3/8
HZG-20A	FOR GAS A= 1 3/8 - 1 5/8 B= 1 3/8 - 1 1/8 - 1 C= 1 1/8- 1 - 7/8 - 3/4	FOR LIQUID D= 5/8-3/4 E= 3/4-5/8-1/2 F= 5/8-1/2-3/8
FQG-B2040A	FOR GAS A= 1 5/8 - 1 3/8 B= 1 3/8 - 1 1/8 - 1 C= 1 3/8 - 1 1/8 - 1	FOR LIQUID D= 7/8-3/4-5/8 E= 7/8-3/4-5/8-1/2 F= 5/8-1/2-3/8
HZG-30A	FOR GAS A= 1 3/8 - 1 1/8 B= 1 3/8 - 1 1/8 - 1 C= 1 1/8- 1 - 7/8 - 3/4	FOR LIQUID D= 5/8-3/4 E= 3/4-5/8-1/2 F= 5/8-1/2-3/8

HITACHI

E-525SN	FOR GAS A= 3/4-5/8 B= 5/8-1/2-3/8 C= 5/8-1/2-3/8	FOR LIQUID D= 1/2-3/8 E= 3/8-1/4 F= 3/8-1/4
E-102SN	FOR GAS A= 7/8-3/4-5/8 B= 7/8-3/4-5/8-1/2 C= 5/8-1/2-3/8	FOR LIQUID D= 1/2-3/8 E= 3/8-1/4 F= 3/8-1/4
E-242SN	FOR GAS A= 1 1/8- 1 B= 1 1/8- 1 - 7/8-3/4 C= 7/8-3/4-5/8-1/2	FOR LIQUID D= 5/8-3/4 E= 5/8-1/2-3/8 F= 1/2-3/8-1/4
M-20SNQ	FOR GAS A= 1 1/8- 1 B= 1 1/8- 1 - 7/8-3/4 C= 7/8-3/4-5/8-1/2	FOR LIQUID D= 5/8-3/4 E= 5/8-1/2-3/8 F= 1/2-3/8-1/4
E-162SN	FOR GAS A= 1 1/8- 1 B= 1 1/8- 1 - 7/8-3/4 C= 7/8-3/4-5/8-1/2	FOR LIQUID D= 3/8 - 1/2 E= 1/2-3/8-1/4 F= 1/2-3/8-1/4
E-302SN	FOR GAS A= 1 3/8 - 1 5/8 B= 1 3/8 - 1 1/8 - 1 C= 1 1/8- 1 - 7/8 - 3/4	FOR LIQUID D= 7/8-3/4-5/8 E= 7/8-3/4-5/8-1/2 F= 5/8-1/2-3/8
M-30SNQ	FOR GAS A= 1 3/8 - 1 5/8 B= 1 3/8 - 1 1/8 - 1 C= 1 1/8- 1 - 7/8 - 3/4	FOR LIQUID D= 7/8-3/4-5/8 E= 7/8-3/4-5/8-1/2 F= 5/8-1/2-3/8

LG AND ARCELIK

ARBLN01621	FOR GAS A= 3/4-5/8-1/2 B= 5/8-1/2-3/8 C= 5/8-1/2-3/8	FOR LIQUID D= 1/2-3/8 E= 3/8-1/4 F= 3/8-1/4
ARBLN03321	FOR GAS A= 3/4 -7/8- 1 B= 3/4-5/8-1/2 C= 5/8-1/2-3/8	FOR LIQUID D= 1/2-3/8 E= 3/8-1/4 F= 3/8-1/4
ARCN0020	FOR GAS A= 1 1/8 - 1 3/8 B= 1 1/8 - 1 - 7/8 - 3/4 C= 7/8-3/4-5/8-1/2	FOR LIQUID D= 3/4-5/8 E= 5/8-1/2-3/8 F= 5/8-1/2-3/8
ARBLN07121	FOR GAS A= 1 1/8 - 1 3/8 B= 1 1/8- 1 - 7/8 - 3/4 C= 7/8-3/4-5/8-1/2	FOR LIQUID D= 3/4-5/8 E= 3/4-5/8-1/2 F= 5/8-1/2-3/8
ARCN0030	FOR GAS A= 1 3/8 - 1 5/8 B= 1 3/8 - 1 1/8 - 1 C= 1 1/8- 1 - 7/8 - 3/4	FOR LIQUID D= 7/8-3/4-5/8 E= 3/4-5/8-1/2 F= 5/8-1/2-3/8
ARBLN014521	FOR GAS A= 1 3/8 - 1 5/8 B= 1 3/8 - 1 1/8 - 1 C= 1 1/8- 1 - 7/8 - 3/4	FOR LIQUID D= 7/8-3/4-5/8 E= 3/4-5/8-1/2 F= 5/8-1/2-3/8

MCQUAY

MDS-MY2	A= 5/8-1/2-3/8 B= 1/2-3/8-1/4 C= 1/2-3/8-1/4
MDS-MY3	A= 5/8-1/2-3/8 B= 5/8-1/2-3/8 C= 1/2-3/8-1/4
MDS-MY4	A= 7/8-3/4-5/8 B= 3/4-5/8-1/2-3/8 C= 3/4-5/8-1/2-3/8
MDS-MY1	A= 1 1/8 - 1 - 7/8 B= 1 1/8- 1 - 7/8 - 3/4 C= 3/4-5/8-1/2
MDS-MY5	A= 1 3/8 - 1 5/8 B= 1 3/8 - 1 1/8 - 1 C= 1 1/8- 1 - 7/8
MDS-MY6	A= 1 3/8 - 1 5/8 B= 1 3/8 - 1 1/8 - 1 C= - 7/8 - 3/4-5/8

MIDEA

FQZHN-01C	FOR GAS A= 3/4-5/8-1/2 B= 3/4-5/8-1/2 C= 5/8-1/2-3/8	FOR LIQUID D= 1/2-3/8 E= 3/8-1/4 F= 3/8-1/4
FQZHN-02C	FOR GAS A= 7/8 --1 B= 7/8-3/4-5/8-1/2 C= 3/4-5/8-1/2	FOR LIQUID D= 3/8 - 1/2 E= 1/2-3/8-1/4 F= 1/2-3/8-1/4
FQZHN-03C	FOR GAS A= 1 1/8 - 1 3/8 B= 1 1/8- 1 - 7/8 - 3/4 C= 7/8-3/4-5/8-1/2	FOR LIQUID D= 3/4-5/8 E= 5/8-1/2-3/8 F= 1/2-3/8-1/4
FQZHN-02N1C	FOR GAS A= 1 3/8 - 1 5/8 B= 1 3/8 - 1 1/8 - 1 C= 1 1/8- 1 - 7/8 - 3/4	FOR LIQUID D= 3/4-5/8 E= 3/4-5/8-1/2 F= 5/8-1/2-3/8
FQZHN-04C	FOR GAS A= 1 3/8 - 1 5/8 B= 1 3/8 - 1 1/8 - 1 C= 1 1/8- 1 - 7/8 - 3/4	FOR LIQUID D= 7/8-3/4-5/8 E= 3/4-5/8-1/2 F= 5/8-1/2-3/8
FQZHN-05C	FOR GAS A= 1 3/8 - 1 5/8 B= 1 3/8 - 1 1/8 - 1 C= 1 3/8 - 1 1/8 - 1	FOR LIQUID D= 7/8-3/4-5/8 E= 7/8-3/4-5/8-1/2 F= 5/8-1/2-3/8
FQZHN-03N1C	FOR GAS A= 1 3/8 - 1 1/8 B= 1 3/8 - 1 1/8 - 1 C= 1 1/8- 1 - 7/8 - 3/4	FOR LIQUID D= 3/4-5/8 E= 3/4-5/8-1/2 F= 5/8-1/2-3/8
FQZHN-04N1C	2 piece * 02N1C + 03N1C	

A/C COPPER JOINTS

MITSUBISHI HEAVY

DIS-22-1	FOR GAS A= 3/4-5/8-1/2 B= 5/8-1/2-3/8 C= 5/8-1/2-3/8	FOR LIQUID D= 1/2-3/8 E= 3/8-1/4 F= 3/8-1/4
DIS-180-1	FOR GAS A= 7/8-3/4-5/8 B= 3/4-5/8-1/2-3/8 C= 3/4-5/8-1/2-3/8	FOR LIQUID D= 5/8-1/2-3/8 E= 1/2-3/8-1/4 F= 1/2-3/8-1/4
DIS-371-1	FOR GAS A= 1 3/8 - 1 1/8 - 1 B= 1 - 7/8-3/4 C= 1 - 7/8-3/4	FOR LIQUID D= 3/4-5/8-1/2 E= 5/8-1/2-3/8 F= 5/8-1/2-3/8
DAS-2A-1	FOR GAS A= 1 3/8 - 1 5/8 B= 1 1/8 - 1 - 7/8 C= 1 1/8 - 1 - 7/8	FOR LIQUID D= 3/4-5/8-1/2 E= 5/8-1/2-3/8 F= 5/8-1/2-3/8
DIS-540-1	FOR GAS A= 1 5/8-1 3/8-1 1/8 B= 1 3/8 - 1 1/8 - 1 C= 1 3/8 - 1 1/8 - 1	FOR LIQUID D= 7/8-3/4-5/8 E= 3/4-5/8-1/2-3/8 F= 3/4-5/8-1/2-3/8

SAMSUNG

MXJ-YA1509M	FOR GAS A= 3/4-5/8 B= 3/4-5/8-1/2 C= 5/8-1/2-3/8	FOR LIQUID D= 1/2-3/8 E= 3/8-1/4 F= 3/8-1/4
MXJ-YA2512M	FOR GAS A= 1 - 7/8-3/4 B= 1 - 7/8-3/4-5/8 C= 7/8-3/4-5/8-1/2	FOR LIQUID D= 3/8 - 1/2 E= 1/2-3/8-1/4 F= 1/2-3/8-1/4
MXJ-YA2815M	FOR GAS A= 1 3/8 - 1 1/8 B= 1 3/8 - 1 1/8 - 1 C= 1 1/8 - 1 - 7/8 - 3/4	FOR LIQUID D= 1/2 - 5/8 E= 5/8-1/2-3/8 F= 1/2-3/8-1/4
MXJ-YA3119M	FOR GAS A= 1 3/8 - 1 5/8 B= 1 3/8 - 1 1/8 - 1 C= 1 1/8 - 1 - 7/8 - 3/4	FOR LIQUID D= 3/4-5/8 E= 3/4-5/8-1/2 F= 5/8-1/2-3/8
MXJ-YA3419M	FOR GAS A= 1 3/8 - 1 5/8 B= 1 3/8 - 1 1/8 - 1 C= 1 1/8 - 1 - 7/8 - 3/4	FOR LIQUID D= 7/8-3/4-5/8 E= 7/8-3/4-5/8-1/2 F= 5/8-1/2-3/8
MXJ-TA3419M	FOR GAS A= 1 3/8 - 1 5/8 B= 1 3/8 - 1 1/8 - 1 C= 1 1/8 - 1 - 7/8 - 3/4	FOR LIQUID D= 7/8-3/4-5/8 E= 7/8-3/4-5/8-1/2 F= 5/8-1/2-3/8
MXJ-YA4119M	FOR GAS A= 1 3/8 - 1 5/8 B= 1 3/8 - 1 1/8 - 1 C= 1 3/8 - 1 1/8 - 1	FOR LIQUID D= 7/8-3/4-5/8 E= 7/8-3/4-5/8-1/2 F= 3/4-5/8-1/2

TOSHIBA

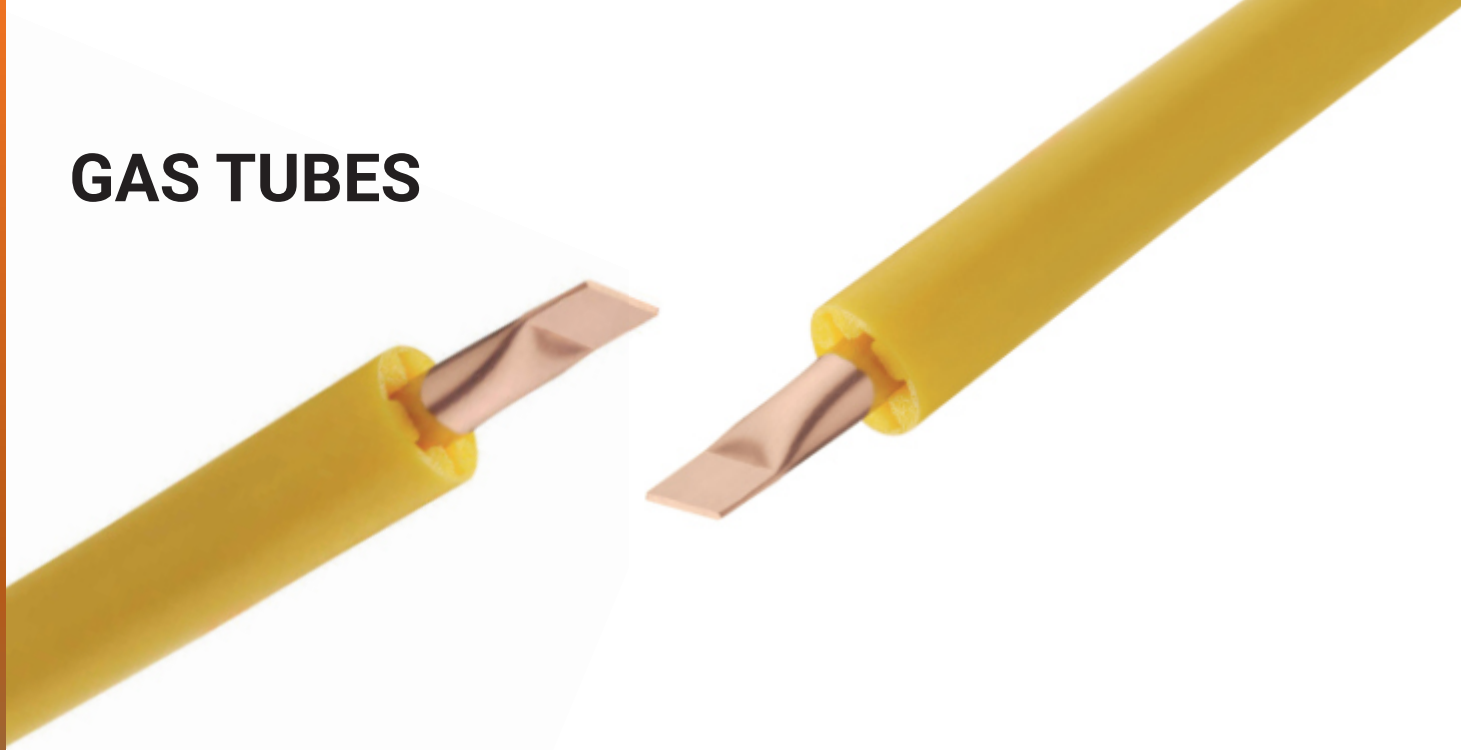
RBM-BY-55E	FOR GAS A= 3/4-5/8 B= 3/4-5/8-1/2 C= 5/8-1/2-3/8	FOR LIQUID D= 1/2-3/8 E= 3/8-1/4 F= 3/8-1/4
RBM-BY-105E	FOR GAS A= 7/8-3/4-5/8 B= 7/8-3/4-5/8-1/2 C= 3/4-5/8-1/2	FOR LIQUID D= 3/8 - 1/2 E= 1/2-3/8-1/4 F= 1/2-3/8-1/4
RBM-BY-205E	FOR GAS A= 1 1/8 - 1 - 7/8 B= 1 1/8 - 1 - 7/8-3/4 C= 7/8-3/4-5/8-1/2	FOR LIQUID D= 5/8-3/4 E= 5/8-1/2-3/8 F= 1/2-3/8-1/4
RBM-BY-305E	FOR GAS A= 1 3/8 - 1 5/8 B= 1 3/8 - 1 1/8 - 1 C= 1 3/8 - 1 1/8 - 1	FOR LIQUID D= 7/8-3/4-5/8 E= 7/8-3/4-5/8-1/2 F= 3/4-5/8-1/2
RBM-BT14	FOR GAS A= 1 3/8 - 1 5/8 B= 1 3/8 - 1 1/8 - 1 C= 1 3/8 - 1 1/8 - 1	FOR LIQUID D= 7/8-3/4-5/8 E= 7/8-3/4-5/8-1/2 F= 3/4-5/8-1/2
RBM-BT24	2 piece * RBM - BT14	



GAS TUBES



GAS TUBES



OTTOCOOL GAS copper tube Cu DHP 99.9% copper - EN 1057, ASTM B280, expanded polyethylene, insulated with sheath in closed cell, is manufactured with state-of-the-art machinery and is expressly made for installing gas distribution facilities in civil residential buildings and according to the following provisions. UNI CIG 7129 standard for chased pipes

OTTOCOOL GAS copper tube is supplied in various coils length as 45m , 50m. Or different length if requested. Marked at intervals by indicating the relative metres.

The copper tube EN 1057 and ASTM B280 is marked **CE** as required by EU 305/2011 EU Construction Products Regulation (CPR).



OTTOCOOL GAS COPPER TUBES DIMENSIONS

Dimensions Without Insulation	Dimensions With Insulation	Thickness Of Insulating Sheath	Bursting Pressure	Operating Pressure	Coil Length	Water Content Per Meter
12 X 1	24	6	37,4	9,35	50	0,0785
14 X 1	26	6	32,06	8,01	50	0,1131
15 X 1	27	6	29,92	7,48	50	0,1327
16 X 1	28	6	28,05	7,01	50	0,1539
18 X 1	30	6	24,93	6,23	50	0,2011
22 X 1,5	34	6	30,6	7,65	25	0,2835

Pallet Composition

Dimensions	Coil Length	Coils Per Pallet	Meters Per Pallet	Approx. Gross Pallet Weight	Dimensions Of Pack
mm	m	n	m	kg	cm
12 X 1	50	17	850	335	h 220 X Ø 80
14 X 1	50	16	800	363	h 220 X Ø 80
15 X 1	50	15	750	383	h 220 X Ø 80
16 X 1	50	15	750	394	h 220 X Ø 80
18 X 1	50	13	650	375	h 220 X Ø 90
22 X 1,5	25	18	450	456	h 220 X Ø 90

We Love Green, We Protect Our Environment

Based on the principle of protecting our environment, it is an integral part of our business to minimize the impact of our products on the environment through energy saving, eco-friendly production and recycling practices.





SMART CLIMA THROUGH THE BEST QUALITY PIPES





Mimarsinan Mah. Eski Silivri Cad. No:20/1 Büyükçekmece / İSTANBUL

Telefon: +90 212 558 05 95

Faks: +90 212 665 38 82 / +90 212 546 3481

info@anadolubakir.com | anadolubakir.com | ottocool.com

