



YORKSHIRE
COPPER TUBE

Ask for it by name

KUTERLEX & KUTERLEX PLUS PLASTIC COATED COPPER TUBE



KUTERLEX

PLASTIC COATED COPPER TUBE TO BS EN 13349 / BS EN 1057



01

02



BS EN 1057



FM 00450

Kuterlex is copper tube coated with a seamless plastics cover which protects the copper tube against aggressive materials. The Kuterlex cover eliminates time-consuming wrapping operations. It is also colour coded to identify the services carried in accordance with UK local authority specifications and BS 1710: 1984, "Specification for identification of pipelines and services".

STANDARD FEATURES

- Cu-DHP grade copper`
- Manufactured in accordance with BS EN 13349 (specification for covered copper tube)
- Copper tube to BS EN 1057
- BSi Kitemark licensed (copper tube)
- 25 year guarantee against product failure directly attributable to a manufacturing defect
- Straight lengths available in 5.8m lengths for container loads to export markets

BENEFITS

- Reduces installation time
- Protects the copper tube against aggressive materials
- Protects the copper tube against accidental damage and abrasion
- Plastic covering withstands water service temperatures up to 95°C
- Covering remains flexible down to -60°C
- Colour coded for service identification:
 - Cold water services, green or blue ■ ■
 - Gas services, yellow ■
 - General purpose, white □

TYPICAL APPLICATIONS

- Cold water services
- Underground pipework, including contaminated ground
- Pipework behind plaster

DESIGN, INSTALLATION AND USE

All products should be designed, installed and used in accordance with appropriate specifications or codes of practice (e.g. BS 6700) and/or Yorkshire Copper Tube technical recommendations.

Kuterlex - Straight tube range

BS EN 13349 / BS EN 1057 15-28mm Half-hard (R250), 35-76.1mm Hard (R290)

Size OD x Wall	Covering Thickness	Available colours and lengths			Nominal Tube Weight	Nominal Covering Weight	Maximum Working Pressure up to 65°C	Bore Capacity	Tubes per inner bundle	Tubes per master bundle
		3m	5.8m	6m						
(mm)	(mm)				(Kg/m)	(Kg/m)	(bar) #	(l/m)		5.8m/6m
15 x 0.7	1.0	■	□ ■	■	0.280	0.05	58	0.145	10	100/240
22 x 0.9	1.0	■	□ ■	■	0.531	0.07	51	0.321	10	100/150
22 x 1.2	1.0		■		0.698	0.07	69	0.302	10	100
28 x 0.9	1.0	■	□ ■	■	0.682	0.08	40	0.539	5	50/90
28 x 1.2	1.0		■		0.899	0.08	55	0.515	5	100/150
35 x 1.2	1.5		□ ■		1.134	0.16	51	0.835	5	50
35 x 1.5	1.5		■		1.405	0.16	65	0.804	5	50/100
42 x 1.2	1.5		□ ■		1.369	0.19	42	1.232	5	50
42 x 1.5	1.5		■		1.699	0.19	54	1.195	5	50/75
54 x 1.2	1.5		□ ■		1.772	0.24	33	2.091	3	30
54 x 2.0	1.5		■		2.908	0.24	56	1.964	3	30/45
66.7 x 1.2	2.0		■		2.198	0.40	26	3.248	1	10
76.1 x 1.5	2.0		■		3.129	0.45	29	4.197	1	10

Kuterlex - Coil range

BS EN 13349 / BS EN 1057 Annealed (R220)

Size OD x Wall	Covering Thickness	Available colours and lengths				Nominal Tube Weight	Nominal Covering Weight	Maximum Working Pressure up to 65°C	Bore Capacity	Coils per pallet
		10m	20m	25m	50m					
(mm)	(mm)					(Kg/m)	(Kg/m)	(bar) #	(l/m)	
8 x 0.6	1.0++			□		0.124	0.04	66	0.036	40 30
10 x 0.7	1.0++	□				0.182	0.07	62	0.058	50 40 20
15 x 1.0	1.0		■ ■			0.391	0.05	67	0.133	35
22 x 1.2	1.0		■ ■			0.698	0.07	57	0.302	25

Based on tube in the supplied hardness

All coverings made from LDPE except products marked ++, which are PVC

KUTERLEX PLUS

PLASTIC COATED COPPER TUBE

TO BS EN 13349 / BS EN 1057



Kuterlex Plus copper tube is sheathed in a continuous cover that has air channels on the internal surface. Kuterlex Plus is primarily designed to give the tube enhanced protection from external attack. In addition, the cover creates a thermal barrier which reduces heat loss from buried tube and condensation on exposed cold pipework. It has an insulation factor of 0.29 W/m/K.



STANDARD FEATURES

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- Copper tube to BS EN 1057
- BSi Kitemark licensed (copper tube)
- 25 year guarantee against product failure directly attributable to a manufacturing defect
- Straight lengths available in 5.8m lengths for container loads to export markets

BENEFITS

- Reduces installation time
- Protects the copper tube against aggressive materials
- Protects the copper tube against accidental damage and abrasion
- Plastic covering withstands water service temperatures up to 95°C
- Covering remains flexible down to -60°C
- Reduces condensation on exposed pipework (see graph 1)
- Reduces surface temperature of the tube (see graph 2), thereby minimising the risk of burns or scalding
- Reduces noise level in exposed pipework
- Removes the need to paint exposed pipework

TYPICAL APPLICATIONS

- Hot water systems
- Underground pipework, including contaminated ground
- Pipework installed in concrete
- Humid atmospheres

DESIGN, INSTALLATION AND USE

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Kuterlex Plus - Straight tube range

BS EN 13349 / BS EN 1057 15-28mm Half-hard (R250), 35-54mm Hard (R290)

Size OD x Wall	Covering Thickness	Available colours and lengths	Nominal Tube Weight	Nominal Covering Weight	Maximum Working Pressure up to 65°C	Bore Capacity	Tubes per inner bundle	Tubes per master bundle
(mm)	(mm)	5.8m	(Kg/m)	(Kg/m)	(bar) #	(l/m)		5.8m
15 x 0.7	2.0	□	0.280	0.07	58	0.145	10	100
22 x 0.9	2.0	□	0.531	0.13	51	0.321	10	100

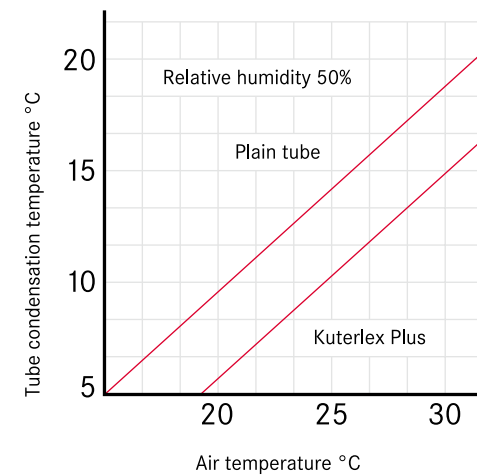
Kuterlex Plus - Coil range

BS EN 13349 / BS EN 1057 Annealed (R220)

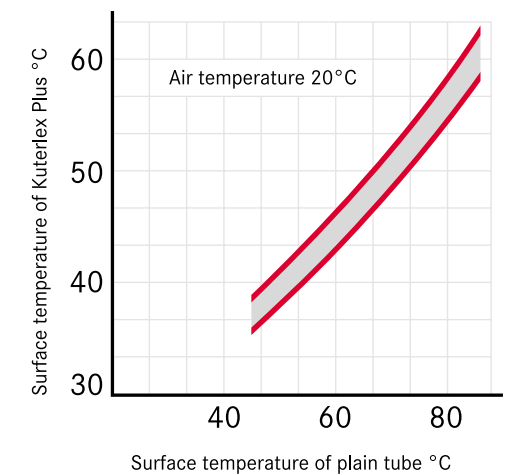
Size OD x Wall	Covering Thickness	Available colours and lengths	Nominal Tube Weight	Nominal Covering Weight	Maximum Working Pressure up to 65°C	Bore Capacity	Coils per pallet
(mm)	(mm)	25m	(Kg/m)	(Kg/m)	(bar) #	(l/m)	
8 x 0.6	1.6++	□	0.124	0.06	66	0.036	40
10 x 0.7	1.6++	□	0.182	0.07	62	0.058	40
12 x 0.8	2.0	□	0.251	0.05	67	0.085	35
15 x 1.0	2.0	□	0.391	0.07	67	0.133	30
22 x 1.2	2.0	□	0.698	0.11	57	0.302	20

Based on tube in the supplied hardness

All coverings made from LDPE except products marked ++, which are PVC

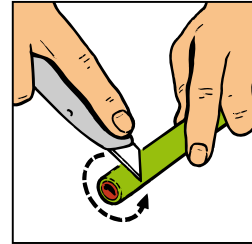


Graph 1: Temperature at which condensation occurs on plain and Kuterlex Plus tubes

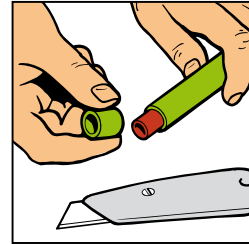


Graph 2: Surface temperature of plain and Kuterlex Plus tubes in air

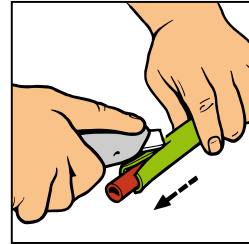
INSTALLATION GUIDE KUTERLEX AND KUTERLEX PLUS



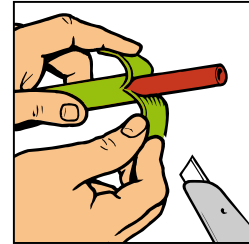
1. Make circular incision in plastic cover.



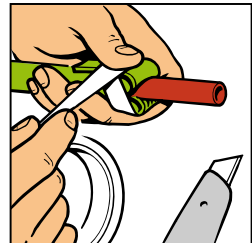
2. Remove the cut plastic from the end of the tube.



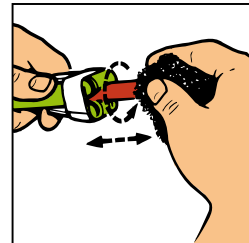
3. Make the incision in plastic along tube.



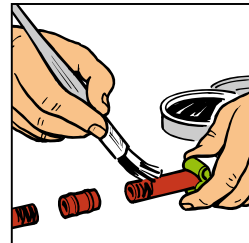
4. Peel back the plastic cover carefully.



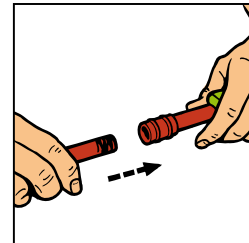
5. Secure the spliced plastic cover with tape.



6. Clean tube and fitting with a suitable abrasive pad.



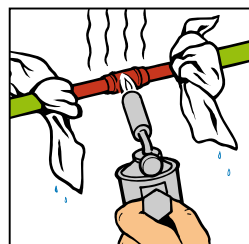
7. Apply Flux.



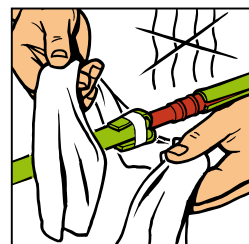
8. Connect tube and fitting.



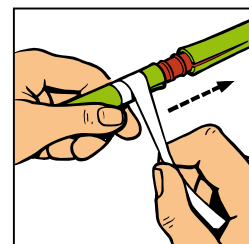
9. Wrap exposed plastic with a damp cloth.



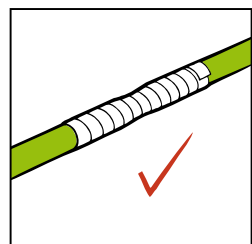
10. Heat with blow lamp.



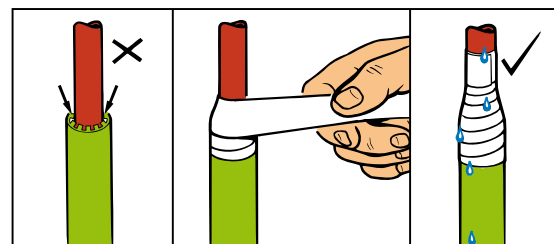
11. When cooled remove damp cloth and re-position plastic.



12. Secure with tape.



13. The finished joint.



14. Exposed ends should be sealed with tape.



KME YORKSHIRE LTD

East Lancashire Road
Kirkby
Liverpool L33 7TU
United Kingdom
www.yct.com

Sales

Tel. +44 (0)151 545 5079
Fax. +44 (0)151 549 2139
sales@yct.com

Technical Services

Tel. +44 (0)151 545 5107
Fax. +44 (0)151 545 5018
technical@yct.com