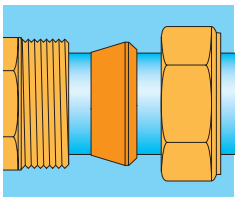
Installation instructions Kuterlite 700/1700

POLYETHELENE

Polythene and polyethylene are one and the same material, the latter being the preferred term of the British Standards Institution.

K700 FITTINGS



K700 fittings in sizes 50mm and 63mm have a distinct wedge shape.

Making Kuterlite 700 and Kuterlite 1700 joints

The same jointing procedure applies for both Kuterlite 700 and 1700 fittings.

Preliminaries

Select the correct size, type and class of polyethylene pipe, and ensure it is appropriate to the application. Pipe support liners should also be of the correct size and class.

Preparation

1. Cut the pipe to length using a hacksaw with a fine-toothed blade or pipe shears, ensuring the end is cut square.

2. Remove any burr from the inside and outside of the pipe ends with a sharp trimming knife.

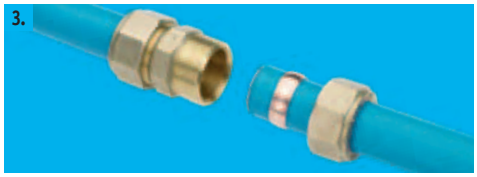
3. Ensure the threads of the fitting body and nut are free of dirt and grit.

Jointing

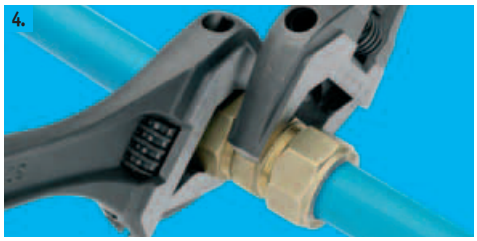
1. Remove the compression nut and compression ring from the fitting, then put the nut and then the ring on the pipe. Put the compression ring in approximately the correct position on the pipe. The compression rings of K700 fittings in 50mm and 63mm have a distinct wedge shape. It is important they are correctly positioned on the pipe during assembly, with the longest side being inserted into the fitting socket.

2. Insert the pipe support liner into the bore of the pipe and push home until the flange is in contact with the end of the pipe. Where the pipe is at or near the minimum bore size, it may be difficult to fully insert the liner due to interference from the tapered portion of the liner (K700) or raised bead on the liner (K1700). In this case, we recommend a small chamfer is produced in the pipe bore using a sharp knife.

3. Push the prepared end of the pipe firmly into the fitting socket until it contacts the stop within the body of the fitting.



4. Tighten the compression nut by hand, then with spanners for approximately 1 to 1½ turns beyond the point at which the compression ring begins to grip the pipe. The identification marks on the coupling nut will aid this.



Pipe support liners

The liner, which is inserted into the bore of the pipe, supports the pipe wall during the tightening of the joint. Liners are colour coded according to class for easy identification.

Kuterlite 700 liners are for MDPE pipe only and are slightly tapered with a small flange.

Kuterlite 1700 liners have a more prominent flange. A raised bead on the barrel of the liner compensates for variations in bore sizes and prevents the liner from becoming dislodged during assembly.

Kuterlite 1700 fittings can be converted to older polyethylene pipe specifications BS 1972 and BS 3284 via the use of the appropriate copper liner. Liners are marked with colour codes to enable easy identification.

Liners compatible with Kuterlite 1700 fittings to convert BS 1972 and BS 3284 pipe specifications

Pipe Spec/class	Pipe size(s)	Liner(s) and size	Liner marking
BS 1972:61 normal gauge	¾" to 1½"	K1766A ¾" to 1½"	None
BS 1972:61 normal gauge	½"	K1766C ⅜"	Blue – flange
BS 1972 Class B	¾"	K1766B ¾"	Red – flange
		K1784C ¾"	Blue – barrel
BS 1972 Class B	1"	K1766B 1"	Red – flange
		K1784C 1"	Blue – barrel
BS 1972 Class C	⅜" to 1½"	K1788D ⅜" to 1½"	Blue – flange
BS 3284 Class C	½" to 1"	K1784C ½" to 1"	Blue – barrel
BS 1972 Class C	1¼"	K1784C 1¼"	Blue – barrel
BS 1972 Class D	⅜" to ¾"	K1766D ⅜" to ¾"	Green – flange
BS 1972 Class D	1"	K1784C ¾"	Blue – barrel
BS 1972 Class D	1¼"	K1784C 1"	Blue – barrel
BS 1972 Class D	1½"	K1784C 1¼"	Blue – barrel
BS 3284 Class D	⅜" to 1"	K1784D ⅜" to 1"	Green – barrel