How to use this guide

Select the page
Using the colour referenced index opposite choose the Adaptalox conduit system you are to install. Turn to the appropriate section in this guide. On each page in the guide you will find an illustration of the conduit type and a typical fitting.

Tools required
Tools required to cut the conduit and assemble the fitting will be illustrated. The full range of tools is illustrated below. N.B. not all tools are applicable to all conduit.

Cutting the conduit
Illustrations show you how to cut the conduit cleanly and accurately.

Fitting Assembly
How to assemble and securely fix the fitting to the conduit.

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Metallic Systems

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Tools required

Standard Hand Tools

- Utility knife.
- Tin snips.
- Junior hacksaw.
- Fine tooth hacksaw - minimum 32TPI
- Groove joint plier or adjustable spanner.

Note: do not use to cut conduit for use with Adaptalok & ATS fitting as IP integrity cannot be maintained.

Specialist Tools - Required to maintain IP integrity. Designed to speed up installation and available from Adaptaflex

- Kwickcut. (Up to 32mm / 1” conduit)
- Swingcut. (Up to 10 - 32mm / ¼ - 1” conduit)
- Rotocut. (20 & 25mm / ⅜ & ⅜” conduit)
- Cut-vice. (Between 10 - 32mm / ¼ - 1” conduit)
- Adaptalok removal tool. all sizes

Note: when cutting braided conduit use insulating tape.
Non-metallic Systems - Adaptalok & Adaptalok ATS with type PA, PR, PI, CP & PADL

Tools required
• Kwikcut cutting tool, fine-tooth hacksaw, or utility knife.
• Adaptalok removal tool to assist fitting removal.

Cutting the conduit
Use the Kwikcut cutting tool.
Note do not use a utility knife to cut conduit for use with Adaptalok & ATS fitting as IP integrity cannot be maintained.
Or use a fine-tooth hacksaw. De-burr as necessary.

Adaptalok IP67 & IP68* Seal
1) Angle seal approx. 30° and push one half to engage 2 ribs.
2) Push down on the ribs and feed the second half of the seal into the conduit.
3) Push conduit into Adaptalok as normal - see below.

* IP rated to IP68 - 1.1 bar for 35 mins. Without the seal IP66 is achieved.
**Fitting Assembly**

Offer up the fitting.

Push and twist to ensure a firm fit and seal.

Pull back the fitting to ensure fittings lugs have properly located in conduit groove.

**Fitting Removal**

Apply the tool over the conduit.

Align with fitting lugs and push tool into fitting.

Holding the removal tool, pull the fitting from the conduit.

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**Hints & Tips**

Ensure the cutting of the conduit is square and the cut remains in the ‘valley’ of the corrugation. Adaptalok & ATS fittings can also be removed by lifting the locking tabs with a small screwdriver and easing the fitting off the conduit, but we recommend you use the removal tool. Seal accessory is only required if you want to upgrade Adaptalok performance from IP66 to IP67/8.

Use the Kwikcut cutting tool or use a fine-tooth hacksaw. **Note** do not use a utility knife to cut conduit for use with Adaptalok & Adaptalok ATS fitting as IP integrity cannot be maintained.
Locate the flat sealing washer in the first conduit corrugation and proceed as below.

Securely clamp the conduit and cut using a fine tooth hacksaw or utility knife, in the valley of the corrugation.

Locate the flat sealing washer in the first conduit corrugation and proceed as below.

Fit the ‘O’ ring into the corresponding groove in the flange face.

Tools required
- Fine-tooth hacksaw

Non-metallic Systems - Adaptalok with type PA, PI & PR Jumbo

OPTIONAL SEALING KIT
Apply one half of clamp ring, ensuring ribs in clamp ring align.

The straight flange fitting is assembled in a similar manner.

Clamping ring 'halves' are aligned and clipped together.

The clamping ring can be removed with a screwdriver if required.

Offer up the conduit into the fitting as far as the shoulder.

Apply one half of clamp ring, ensuring ribs in clamp ring align.

Align the second half of the clamp ring and push click together.

Fitting Assembly 90° flange

Fitting Assembly straight flange

Hints & Tips

Ensure the cutting of the conduit is square and the cut remains in the ‘valley’ of the corrugation.

Remove any excess burr from the cut conduit.
Non-metallic Systems - Adaptaring & Adaptaseal with type PA, PR, PI & CP

Tools required
• Kwikcut cutting tool, fine-tooth hacksaw, or utility knife.

Cutting the conduit
Use the Kwikcut cutting tool, or
Use a fine-tooth hacksaw, or utility knife. De-burr as necessary.
Fitting Assembly ADAPTASEAL

- Apply the capnut over the end of the conduit.
- Fit sealing ring over conduit, ensuring the ribs seat in valley of the conduit, chamfered end of ring towards capnut.
- Offer fitting body up to sealing ring and fully tighten capnut by hand.

Fitting Assembly ADAPTARING

- Apply capnut over end of the conduit.
- Fit ‘C-ring’ onto the conduit, chamfered end towards the capnut.
- Apply the fitting body up to the ‘C-ring’ and fully tighten by hand.

Hints & Tips

Before the body of the fitting is positioned, there should be three rings of the conduit visible after the seal or ‘C-ring’ is fitted.

Fitting of on anti-vibration washer (type AWB), between capnut and body, will prevent accidental disassembly and ensure integrity of assembled fitting.
Cutting the conduit

Tools required
- Fine-tooth hacksaw.
- Kwikcut cutting tool.

Use the Kwikcut cutting tool, or

Use a fine-tooth hacksaw, or utility knife. De-burr as necessary.
Fitting Assembly KORIFIT - 3 part fitting (push on fitting assembly is as for Adaptalok fittings – see page 5-6)

Hints & Tips
When using push-on fittings with Korifit, use a push and twist action to ensure a good seal.

Fitting Assembly XF fittings (13-32mm)

Apply capnut over conduit.

Apply capnut over end of the conduit.

Fit ‘C-ring’ onto the conduit, chamfered end towards the capnut, and in the fourth corrugation groove.

Insert conduit into fitting between ‘barbs’ and inner shoulder.

Apply the fitting body up to the ‘C-ring’ and fully tighten by hand.

Fully tighten the capnut by hand.
Securely clamp the conduit - preferably with a Cut-vice. Cut through the centre line of the tape.

Apply insulating tape at the cutting point - 2 revolutions recommended.

Cutting the conduit

Tools required
- Fine-tooth hacksaw.
- Cut vice.
- Tin snips.
- Adjustable grips or spanners.
- Insulating tape.

Non-metallic Systems - Hi-Spec with ype PKTC, PKSS, PRTC & PRSS
Fitting Assembly

Apply the outer capnut over the braiding before removing tape.

Remove tape and pull back braided sheath. Apply inner capnut.

Apply sealing ring - chamfered edge towards capnut, 3 corrugations in from end of conduit.

Apply body over conduit

Hand tighten body of fitting onto inner capnut.

Position braiding over steps of inner locknut and secure with outer capnut. (Ensure braid is trapped between capnuts).

Tighten components as shown.

Hints & Tips

Use tin snips as required to trim the braiding after cutting with hacksaw.

Other types of tape such as parcel tape, masking tape etc, can be used to facilitate cutting.
Securely clamp the conduit - preferably with a Cut-vice - and use a fine tooth hacksaw, or

Use a Rotocut. (Sizes 20 & 25mm) Position and clamp conduit at position of required cut.

As handle is turned, gently squeeze onto conduit to cut through spiral, then remove and twist to separate.

**Tools required**

- Fine-tooth hacksaw and Cut-vice
- Rotocut.
- Adjustable grips or spanners.
- Utility knife.

**Metallic Systems - Adaptasteel with type S, SS, SP, SN & LFH-SP**
If using Rotocut with covered conduit, use a utility knife to cut through the PVC sheath. A clean, square cut will ease subsequent fitting assembly.

**Hints & Tips**

If using Rotocut with covered conduit, use a utility knife to cut through the PVC sheath. A clean, square cut will ease subsequent fitting assembly.

**Fitting Assembly types A, B, C & F**

1. Fit ferrule over end of conduit.
2. Screw fitting through ferrule into conduit.
3. Tighten with grips.

**Fitting Assembly type M**

1. Apply capnut then sealing ring - chamfered end towards capnut.
2. Screw insert into end of conduit.
3. Offer up body and tighten capnut.
4. Install and position fittings into desired threaded entry, then fully tighten the fitting. System IP is achieved when blue seal is visible between capnut & conduit.
Use a Swingcut. Securely clamp the conduit - preferably with a Cut-vice - and use a fine tooth hacksaw, or.

Tools required
- Fine-tooth hacksaw.
- Cut-vice conduit vice.
- Swingcut conduit cutter.
- Adjustable grips or spanners.

Metallic Systems - Liquid Tight with type SPL, SPLHC & SPUL
**Fitting Assembly** type M fittings

- Push capnut then seal over conduit, chamfered end towards capnut. Screw in end fitting.

- Offer up body of fitting and handtighten capnut.

- Install and position fittings into desired threaded entry, then fully tighten the fitting. System IP is achieved when blue seal is visible between capnut & conduit.

**Fitting Assembly** types A & B

- Apply capnut and sealing ring over conduit, ensuring chamfered edge of seal is towards fitting body.

- Fully screw the fitting into the conduit.

- Screw the capnut onto the fitting and tighten with grips or spanners as above.

**Hints & Tips**

For M type fitting, ensure liquid tight seal is applied as shown, with tapered side towards capnut.

For fitting types A & B, seal is applied with chamfered side to fitting body.
Securely clamp the conduit - preferably with a Cut-vice. Cut through centre line of tape. Apply insulating tape at the cutting point - 2 revolutions recommended.

**Fitting Assembly conduit types SB, STC, SPB, & SPTC**

**Tools required**
- Fine tooth hacksaw.
- Cut-vice.
- Tin snips.
- Adjustable grips or spanners.
- Insulating tape.

**Cutting the conduit**

Apply insulating tape at the cutting point - 2 revolutions recommended.

Securely clamp the conduit - preferably with a Cut-vice. Cut through centre line of tape.
Screw fitting body into conduit.

Apply sealing ring with chamfer towards cut end of conduit.

Screw body of fitting into conduit.

Remove tape, pinch braiding against inner conduit and apply ferrule.

Tighten with grips or spanners.

Apply inner nut onto fitting.

Fitting Assembly for conduit type SPLHCB

Before removing tape, place outer capnut onto conduit.

Remove tape and pull back braiding to expose approx 50mm (2in) of conduit.

Apply inner nut to seat under braiding.

Hints & Tips

Use tin snips as required to trim the braiding after cutting with hacksaw. Take care when pulling back the outer braiding.

Due to the specialist nature of this conduit we offer a cutting and assembly service. Please ask for details.

Apply sealing ring with chamfer towards cut end of conduit.

Screw outer nut onto inner nut ensuring braid is trapped securely and tighten with grips or spanners.
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