

# Non-metallic systems

## Quick Selection Guide

### Quick Selection Guide - Non-metallic systems

| Type                                   | TYPE PA<br>LIGHTWEIGHT CONDUIT | TYPE PA <b>NEW</b><br>LIGHTWEIGHT SLIT CONDUIT | TYPE PA<br>STANDARD WEIGHT CONDUIT | TYPE PA<br>HEAVYWEIGHT CONDUIT | TYPE PI <b>NEW</b><br>LIGHTWEIGHT CONDUIT | TYPE PI<br>STANDARD WEIGHT CONDUIT | TYPE PI<br>HEAVYWEIGHT CONDUIT | TYPE PR<br>STANDARD WEIGHT CONDUIT | TYPE PADL <b>NEW</b><br>STANDARD WEIGHT CONDUIT | TYPE CP <b>NEW</b><br>MEDIUM WEIGHT CONDUIT | TYPE KF <b>NEW</b><br>MEDIUM WEIGHT DRAW-WIRED CONDUIT | TYPE KF<br>LIGHTWEIGHT CONDUIT | TYPE KF<br>STANDARD WEIGHT CONDUIT | TYPE KF<br>HEAVYWEIGHT CONDUIT | TYPE PP<br>MEDIUM WEIGHT CONDUIT | TYPE XF<br>STANDARD WEIGHT CONDUIT | TYPE RF <b>NEW</b><br>STANDARD WEIGHT CONDUIT | TYPE PK<br>LIGHTWEIGHT CONDUIT | TYPE PKTC<br>LIGHTWEIGHT CONDUIT | TYPE PKSS<br>LIGHTWEIGHT CONDUIT | TYPE PRTC<br>STANDARD WEIGHT CONDUIT | TYPE PRSS<br>STANDARD WEIGHT CONDUIT |
|----------------------------------------|--------------------------------|------------------------------------------------|------------------------------------|--------------------------------|-------------------------------------------|------------------------------------|--------------------------------|------------------------------------|-------------------------------------------------|---------------------------------------------|--------------------------------------------------------|--------------------------------|------------------------------------|--------------------------------|----------------------------------|------------------------------------|-----------------------------------------------|--------------------------------|----------------------------------|----------------------------------|--------------------------------------|--------------------------------------|
| Example                                |                                |                                                |                                    |                                |                                           |                                    |                                |                                    |                                                 |                                             |                                                        |                                |                                    |                                |                                  |                                    |                                               |                                |                                  |                                  |                                      |                                      |
| Conduit Material                       | PA6                            | PA6                                            | PA6                                | PA6                            | Pe                                        | PA11                               | PA11                           | PA6                                | PA6                                             | CPe                                         | PP                                                     | PVCu                           | PVCu                               | PVCu                           | PP                               | PVCu                               | PVCu                                          | PK                             | PK                               | PK                               | PA6                                  | PA6                                  |
| Covering/Overbraid                     |                                |                                                |                                    |                                |                                           |                                    |                                |                                    |                                                 |                                             |                                                        |                                |                                    |                                |                                  | Plasticised PVC                    | Plasticised PVC                               |                                | Tinned Copper                    | Stainless Steel                  | Tinned Copper                        | Stainless Steel                      |
| IP RATING - (with appropriate fitting) | IP40                           | ●                                              | ●                                  | ●                              | ●                                         | ●                                  | ●                              | ●                                  | ●                                               | ●                                           | ●                                                      | ●                              | ●                                  | ●                              | ●                                |                                    |                                               |                                |                                  |                                  |                                      |                                      |
|                                        | IP54                           |                                                |                                    |                                |                                           |                                    |                                |                                    |                                                 |                                             |                                                        |                                |                                    |                                |                                  |                                    |                                               |                                |                                  |                                  |                                      |                                      |
|                                        | IP65                           |                                                |                                    |                                |                                           |                                    |                                |                                    |                                                 |                                             |                                                        |                                |                                    |                                |                                  | ●                                  |                                               |                                |                                  |                                  |                                      |                                      |
|                                        | IP66                           | ●                                              | ●                                  | ●                              | ●                                         | ●                                  | ●                              | ●                                  | ●                                               | ●                                           |                                                        |                                |                                    |                                | ●                                |                                    |                                               | ●                              | ●                                | ●                                | ●                                    | ●                                    |
|                                        | IP67                           | ●                                              | ●                                  | ●                              | ●                                         | ●                                  | ●                              | ●                                  | ●                                               | ●                                           |                                                        |                                |                                    |                                | ●                                |                                    | ●                                             | ●                              | ●                                | ●                                | ●                                    | ●                                    |
|                                        | IP68                           | ●                                              | ●                                  | ●                              | ●                                         | ●                                  | ●                              | ●                                  | ●                                               | ●                                           |                                                        |                                |                                    |                                | ●                                |                                    |                                               |                                |                                  |                                  |                                      |                                      |
|                                        | IP69K                          |                                                |                                    | ●                              |                                           | ●                                  |                                | ●                                  | ●                                               | ●                                           |                                                        |                                |                                    |                                |                                  |                                    |                                               |                                |                                  |                                  |                                      |                                      |
| Static Temp - Min                      | -40 °C                         | -40 °C                                         | -40 °C                             | -40 °C                         | -40 °C                                    | -50 °C                             | -50 °C                         | -40 °C                             | -40 °C                                          | -45 °C                                      | -5 °C                                                  | -5 °C                          | -5 °C                              | -5 °C                          | -20 °C                           | -5 °C                              | -20 °C                                        | -60 °C                         | -60 °C                           | -60 °C                           | -40 °C                               | -40 °C                               |
| Max                                    | +120 °C                        | +120 °C                                        | +120 °C                            | +120 °C                        | +120 °C                                   | +110 °C                            | +110 °C                        | +120 °C                            | +120 °C                                         | +135 °C                                     | +60 °C                                                 | +60 °C                         | +60 °C                             | +60 °C                         | +90 °C                           | +60 °C                             | +60 °C                                        | +260 °C                        | +260 °C                          | +260 °C                          | +120 °C                              | +120 °C                              |
| UV Resistance                          | Very High                      | Very High                                      | Very High                          | Very High                      | Very High                                 | Very High                          | Very High                      | Very High                          | Very High                                       | Very High                                   | High                                                   | High                           | High                               | High                           | Medium                           | High                               | High                                          | Very High                      | Very High                        | Very High                        | Very High                            | Very High                            |
| Flexibility                            | High                           | High                                           | High                               | Medium                         | High                                      | Very High                          | High                           | High                               | Medium                                          | Very High                                   | Medium                                                 | Pliable                        | Pliable                            | Pliable                        | High                             | Very High                          | Medium                                        | High                           | High                             | High                             | High                                 | High                                 |
| Fatigue Life                           | High                           | High                                           | High                               | Medium                         | High                                      | Very High                          | Very High                      | Medium                             | Medium                                          | Very High                                   | Low                                                    | Low                            | Low                                | Low                            | Medium                           | Medium                             | Medium                                        | High                           | High                             | High                             | Medium                               | Medium                               |
| Low Fire Hazard                        |                                |                                                | Standard                           | Standard                       |                                           |                                    |                                | Enhanced                           | Standard                                        | Standard                                    |                                                        |                                |                                    |                                |                                  |                                    |                                               | Super                          | Super                            | Super                            | Enhanced                             | Enhanced                             |
| Halogen Free                           | ●                              | ●                                              | ●                                  | ●                              | ●                                         | ●                                  | ●                              | ●                                  | ●                                               | ●                                           |                                                        |                                |                                    |                                | ●                                |                                    |                                               | ●                              | ●                                | ●                                | ●                                    | ●                                    |
| Self Extinguishing                     | ●                              | ●                                              | ●                                  | ●                              | ●                                         | ●                                  | ●                              | ●                                  | ●                                               | ●                                           |                                                        | ●                              | ●                                  | ●                              |                                  | ●                                  | ●                                             | ●                              | ●                                | ●                                | ●                                    | ●                                    |
| EMI Screen                             |                                |                                                |                                    |                                |                                           |                                    |                                |                                    |                                                 |                                             |                                                        |                                |                                    |                                |                                  |                                    |                                               |                                | High                             | Standard                         | High                                 | Standard                             |
| High Mechanical Strength               |                                |                                                |                                    |                                |                                           |                                    |                                |                                    |                                                 |                                             |                                                        |                                |                                    |                                |                                  |                                    |                                               |                                | ●                                | ●                                | ●                                    | ●                                    |
| High Abrasion Resistance               |                                |                                                | ●                                  | ●                              |                                           |                                    |                                | ●                                  | ●                                               |                                             |                                                        |                                |                                    |                                |                                  |                                    |                                               | ●                              | ●                                | ●                                | ●                                    | ●                                    |
| Approvals                              |                                |                                                |                                    |                                |                                           |                                    |                                |                                    |                                                 |                                             |                                                        |                                |                                    |                                |                                  |                                    |                                               |                                |                                  |                                  |                                      |                                      |
|                                        |                                |                                                |                                    |                                |                                           |                                    |                                |                                    |                                                 |                                             |                                                        |                                |                                    |                                |                                  |                                    |                                               |                                |                                  |                                  |                                      |                                      |
|                                        |                                |                                                |                                    |                                |                                           |                                    |                                |                                    |                                                 |                                             |                                                        |                                |                                    |                                |                                  |                                    |                                               |                                |                                  |                                  |                                      |                                      |
|                                        |                                |                                                |                                    |                                |                                           |                                    |                                |                                    |                                                 |                                             |                                                        |                                |                                    |                                |                                  |                                    |                                               |                                |                                  |                                  |                                      |                                      |
| Key Application                        |                                |                                                |                                    |                                |                                           |                                    |                                |                                    |                                                 |                                             |                                                        |                                |                                    |                                |                                  |                                    |                                               |                                |                                  |                                  |                                      |                                      |
|                                        |                                |                                                |                                    |                                |                                           |                                    |                                |                                    |                                                 |                                             |                                                        |                                |                                    |                                |                                  |                                    |                                               |                                |                                  |                                  |                                      |                                      |
| Page Number                            | 14                             | 14                                             | 14                                 | 14                             | 15                                        | 15                                 | 15                             | 16                                 | 16                                              | 16                                          | 37                                                     | 37                             | 37                                 | 37                             | 39                               | 40                                 | 40                                            | 46                             | 46                               | 46                               | 47                                   | 47                                   |

KEY:



Commercial Contracting



Machine Tools



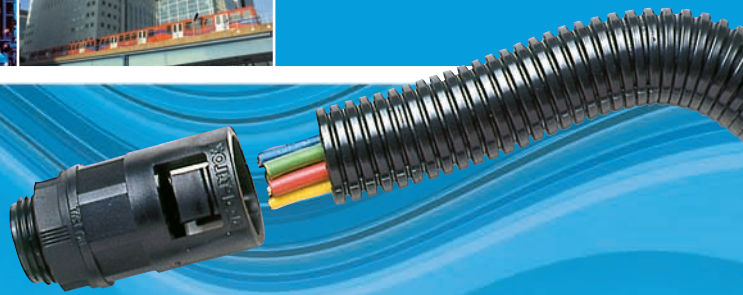
Rail



Marine



Automation



# Non-metallic systems

## Conduit, Fittings & Accessories

### Range Overview

Adaptaflex have more than 20 different types of non metallic conduit systems all providing different technical properties for your cable management applications. Conduit is available in many different materials, ranging from lightweight to heavyweight with nominal conduit sizes from 10mm right up to the Jumbo size of 106mm.

For more demanding applications there is a wide-ranging high specification series of conduit with enhanced low fire hazard properties, EMI screening and incorporating high fatigue life. Overbraided options are available for use in abrasive environments.

Standard product is manufactured in a wide range of materials. The corrugated construction provides good flexibility and low weight. In addition a range of fittings are specifically designed to maintain system

integrity including the popular and easy to fit Adaptalok system. Fitting types are available in straight, 90°, 45°, with metric, PG, PF, & NPT threads.

Many of our conduit systems have industry recognised approvals including British Kitemark, CE Approval, UL 1696, NF, LUL, DB, Lloyds Register amongst others.

### Advantages

- Non metallic conduits do not corrode (rust)
- Lighter in weight
- Quicker to install (cut & assemble fittings)
- Wider variety of fittings - much larger solutions choice
- Better fatigue life
- Return to shape

### System approvals available:



### Adaptalok ATS™

The ultimate & unique fitting  
from Adaptaflex - See page 24



### Ranges include:

**ADAPTALOK**  
SYSTEM

**HI-SPEC**  
SYSTEMS

**ADAPTARING**  
SYSTEM

**KORIFIT**  
SYSTEM

**ADAPTASEAL**  
SYSTEM

**XTRAFLEX**  
SYSTEM

# Non-metallic systems

## TYPE PA, & PI Non-metallic conduit



### PRODUCT CHARACTERISTICS

To order quote part no, colour & reel length - e.g. PAF13/BL/50M

Type

Description

Materials

Example

### TYPE PA

#### LIGHTWEIGHT CONDUIT

Polyamide (Nylon) 6  
Colour Black (BL) & Grey (GR).



### TYPE PA NEW

#### LIGHTWEIGHT SLIT CONDUIT

Polyamide (Nylon) 6  
Colour Black (BL) only.



### TYPE PA

#### STANDARD WEIGHT CONDUIT

Polyamide (Nylon) 6  
Colour Black (BL) & Grey (GR).



### TYPE PA

#### HEAVYWEIGHT CONDUIT

Polyamide (Nylon) 6  
Colour Black (BL) & Grey (GR).



| NOMINAL CONDUIT SIZE (mm) | OUTSIDE DIAMETER (mm) | NW CONDUIT SIZE (mm) | CONDUIT PITCH |
|---------------------------|-----------------------|----------------------|---------------|
| 10                        | 10.0                  | 8.5                  | F             |
| 13                        | 13.0                  | 10.0                 | F             |
| 16                        | 15.8                  | 13.0                 | F             |
| 21                        | 21.2                  | 17.0                 | F             |
| 21                        | 21.2                  | 17.0                 | C             |
| 28                        | 28.5                  | 23.0                 | F             |
| 28                        | 28.5                  | 23.0                 | C             |
| 34                        | 34.5                  | 29.0                 | F             |
| 34                        | 34.5                  | 29.0                 | C             |
| 42                        | 42.5                  | 36.0                 | C             |
| 54                        | 54.5                  | 48.0                 | C             |
| 80                        | 79.3                  | 70.0                 | C             |
| 106                       | 106.0                 | 95.0                 | C             |

F = FINE C = COARSE

| PART NUMBER | INSIDE DIAMETER (mm) | MINIMUM BEND RADIUS (mm) | REEL LENGTH (m) |
|-------------|----------------------|--------------------------|-----------------|
| -           | -                    | -                        | -               |
| PAFL13      | 10.0                 | 25                       | 50              |
| PAFL16      | 11.9                 | 35                       | 50              |
| PAFL21      | 16.8                 | 45                       | 50              |
| -           | -                    | -                        | -               |
| -           | -                    | -                        | -               |
| PACL28      | 22.2                 | 50                       | 50              |
| -           | -                    | -                        | -               |
| PACL34      | 27.9                 | 60                       | 50              |
| PACL42      | 35.2                 | 65                       | 25              |
| PACL54      | 46.9                 | 75                       | 25              |
| -           | -                    | -                        | -               |
| -           | -                    | -                        | -               |

| PART NUMBER | INSIDE DIAMETER (mm) | MINIMUM BEND RADIUS (mm) | REEL LENGTH (m) |
|-------------|----------------------|--------------------------|-----------------|
| -           | -                    | -                        | -               |
| PAFL13-S    | 10.0                 | 25                       | 50              |
| PAFL16-S    | 11.9                 | 35                       | 50              |
| PAFL21-S    | 16.8                 | 45                       | 50              |
| -           | -                    | -                        | -               |
| -           | -                    | -                        | -               |
| PACL28-S    | 22.2                 | 50                       | 50              |
| -           | -                    | -                        | -               |
| PACL34-S    | 27.9                 | 60                       | 50              |
| PACL42-S    | 35.2                 | 65                       | 25              |
| PACL54-S    | 46.9                 | 75                       | 25              |
| -           | -                    | -                        | -               |
| -           | -                    | -                        | -               |

| PART NUMBER | INSIDE DIAMETER (mm) | MINIMUM BEND RADIUS (mm) | REEL LENGTH (m) | REEL LENGTH (m) |
|-------------|----------------------|--------------------------|-----------------|-----------------|
| -           | -                    | -                        | -               | -               |
| PAFS10      | 6.5                  | 15                       | 50              | 50              |
| PAFS13      | 9.6                  | 25                       | 50              | 50              |
| PAFS16      | 11.8                 | 35                       | 10, 25, 50      | 50              |
| PAFS21      | 16.5                 | 45                       | 10, 25, 50      | 50              |
| -           | -                    | -                        | -               | -               |
| PAFS28      | 22.6                 | 50                       | 10, 25, 50      | 50              |
| PACS28      | 21.7                 | 50                       | 10, 25, 50      | 50              |
| PAFS34      | 28.8                 | 60                       | 10, 25, 50      | 50              |
| PACS34      | 27.7                 | 60                       | 10, 25, 50      | 50              |
| PACS42      | 35.2                 | 65                       | 10, 25          | 25              |
| PACS54      | 46.5                 | 75                       | 10, 25          | 25              |
| PACS80      | 67.0                 | 160                      | 10              | 10              |
| PACS106     | 91.5                 | 210                      | 10              | 10              |

| PART NUMBER | INSIDE DIAMETER (mm) | MINIMUM BEND RADIUS (mm) | REEL LENGTH (m) |
|-------------|----------------------|--------------------------|-----------------|
| -           | -                    | -                        | -               |
| PAFH13      | 9.0                  | 35                       | 50              |
| PAFH16      | 11.3                 | 45                       | 50              |
| -           | -                    | -                        | -               |
| PACH21      | 14.5                 | 60                       | 50              |
| -           | -                    | -                        | -               |
| PACH28      | 21.3                 | 70                       | 50              |
| -           | -                    | -                        | -               |
| PACH34      | 26.8                 | 75                       | 50              |
| PACH42      | 34.6                 | 90                       | 25              |
| PACH54      | 46.0                 | 95                       | 25              |
| -           | -                    | -                        | -               |
| -           | -                    | -                        | -               |

IP Rating with appropriate fitting

IP40

IP65

IP66

IP67

IP68

NEW IP69k

Temperature Range

UV Resistance

Flexibility & Fatigue Life

Fire Performance & EMI Screen

Approvals

System Applications

For use with following fittings;  
Adaptalok, ATS, Adapting & Adaptaseal

Adapting Fittings

n/a

Adaptalok, ATS or Adaptaseal Fittings

Adaptalok + ALS Seal or ATS, Adaptaseal Fittings

Adaptalok + ALS Seal or ATS, Adaptaseal Fittings

n/a

Static Applications: -40 °C to +120 °C  
Moving Applications: -5 °C to +120 °C

Very High

High Flexibility - High Fatigue Life

Self Extinguishing  
Halogen Free



For use with following fittings;  
Adapting

n/a

n/a

n/a

n/a

n/a

n/a

Static Applications: -40 °C to +120 °C  
Moving Applications: -5 °C to +120 °C

Very High

High Flexibility - High Fatigue Life

Self Extinguishing  
Halogen Free



For use with following fittings;  
Adaptalok, ATS, Adapting, Adaptaseal & Jumbo

Adapting & Jumbo Fittings

Jumbo Fittings + SK Seal

Adaptalok, ATSor Adaptaseal Fittings

Adaptalok + ALS Seal or ATS, Adaptaseal Fittings

Adaptalok + ALS Seal or ATS, Adaptaseal Fittings

Adaptalok Fittings + ALS Seal or ATS

Static Applications: -40 °C to +120 °C  
Moving Applications: -5 °C to +120 °C

Very High

High Flexibility - High Fatigue Life



NF  
Public Buildings  
Rail

For use with following fittings;  
Adaptalok, ATS, Adapting & Adaptaseal

Adapting Fittings

n/a

Adaptalok, ATS or Adaptaseal Fittings

Adaptalok + ALS Seal or ATS, Adaptaseal Fittings

Adaptalok + ALS Seal or ATS, Adaptaseal Fittings

n/a

Static Applications: -40 °C to +120 °C  
Moving Applications: -5 °C to +120 °C

Very High

Medium Flexibility - Medium Fatigue Life



NF  
Rail  
Underground  
Heavy Industrial



## PRODUCT CHARACTERISTICS

Type

Description

Materials

Example

### TYPE PI NEW LIGHTWEIGHT CONDUIT

Polyester  
Colour Black (BL) only.



### TYPE PI STANDARD WEIGHT CONDUIT

Modified Polyamide 11  
Colour Black (BL) & Grey (GR).



### TYPE PI HEAVYWEIGHT CONDUIT

Modified Polyamide 11  
Colour Black (BL) only.



| NOMINAL CONDUIT<br>SIZE (mm) | OUTSIDE DIAMETER (mm) | NW CONDUIT SIZE (mm) | CONDUIT PITCH<br>F = FINE C = COARSE |
|------------------------------|-----------------------|----------------------|--------------------------------------|
| 10                           | 10.0                  | 8.5                  | F                                    |
| 13                           | 13.0                  | 10.0                 | F                                    |
| 16                           | 15.8                  | 13.0                 | F                                    |
| 21                           | 21.2                  | 17.0                 | F                                    |
| 21                           | 21.2                  | 17.0                 | C                                    |
| 28                           | 28.5                  | 23.0                 | C                                    |
| 34                           | 34.5                  | 29.0                 | C                                    |
| 42                           | 42.5                  | 36.0                 | C                                    |
| 54                           | 54.5                  | 48.0                 | C                                    |
| 80                           | 79.3                  | 70.0                 | C                                    |
| 106                          | 106.0                 | 95.0                 | C                                    |

| PART NUMBER | INSIDE<br>DIAMETER (mm) | MINIMUM BEND<br>RADIUS (mm) | REEL LENGTH (m) |
|-------------|-------------------------|-----------------------------|-----------------|
| -           | -                       | -                           | -               |
| PIFL13      | 10.0                    | 25                          | 50              |
| PIFL16      | 11.9                    | 30                          | 50              |
| PIFL21      | 16.8                    | 35                          | 50              |
| -           | -                       | -                           | -               |
| PICL28      | 22.2                    | 45                          | 50              |
| PICL34      | 27.9                    | 55                          | 25              |
| PICL42      | 35.7                    | 60                          | 25              |
| PICL54      | 46.9                    | 70                          | 25              |
| -           | -                       | -                           | -               |
| -           | -                       | -                           | -               |

| PART NUMBER | INSIDE<br>DIAMETER (mm) | MINIMUM BEND<br>RADIUS (mm) | REEL LENGTH (m) |
|-------------|-------------------------|-----------------------------|-----------------|
| PIFS10      | 6.2                     | 15                          | 50              |
| PIFS13      | 9.9                     | 25                          | 50              |
| PIFS16      | 11.7                    | 30                          | 50              |
| PIFS21      | 16.6                    | 35                          | 50              |
| -           | -                       | -                           | -               |
| PICS28      | 21.7                    | 45                          | 50              |
| PICS34      | 27.7                    | 55                          | 25              |
| PICS42      | 35.5                    | 60                          | 25              |
| PICS54      | 46.6                    | 70                          | 25              |
| PICS80      | 67.0                    | 160                         | 10              |
| PICS106     | 91.0                    | 210                         | 10              |

| PART NUMBER | INSIDE<br>DIAMETER (mm) | MINIMUM BEND<br>RADIUS (mm) | REEL LENGTH (m) |
|-------------|-------------------------|-----------------------------|-----------------|
| -           | -                       | -                           | -               |
| PIFH13      | 9.7                     | 30                          | 50              |
| PIFH16      | 11.5                    | 35                          | 50              |
| -           | -                       | -                           | -               |
| PICH21      | 15.3                    | 40                          | 50              |
| PICH28      | 21.5                    | 50                          | 50              |
| PICH34      | 27.5                    | 60                          | 25              |
| PICH42      | 35.3                    | 65                          | 25              |
| PICH54      | 46.4                    | 75                          | 25              |
| -           | -                       | -                           | -               |
| -           | -                       | -                           | -               |

IP Rating with  
appropriate fitting

IP40

IP65

IP66

IP67

IP68

NEW IP69k

Temperature Range

UV Resistance

Flexibility & Fatigue Life

Fire Performance  
& EMI Screen

Approvals

System Applications

For use with following fittings;  
Adaptalok, ATS, Adaptaring & Adaptaseal

Adaptaring Fittings

n/a

Adaptalok, ATS or Adaptaseal Fittings

Adaptalok + ALS Seal or ATS, Adaptaseal Fittings

Adaptalok + ALS Seal or ATS, Adaptaseal Fittings

n/a

Static Applications: -25 °C to +120 °C  
Moving Applications: -5 °C to +105 °C

Very High

High Flexibility - High Fatigue Life

Self Extinguishing  
Halogen Free



Robots  
Continual Flexing Applications

For use with following fittings;  
Adaptalok, ATS, Adaptaring, Adaptaseal & Jumbo

Adaptaring & Jumbo Fittings

Jumbo Fittings + SK Seal

Adaptalok, ATS or Adaptaseal Fittings

Adaptalok + ALS Seal or ATS, Adaptaseal Fittings

Adaptalok + ALS Seal or ATS, Adaptaseal Fittings

Adaptalok Fittings + ALS Seal or ATS

Static Applications: -50 °C to +110 °C  
Moving Applications: -45 °C to +120 °C

Very High

Very High Flexibility - Very High Fatigue Life

Self Extinguishing  
Halogen Free



NF

Rail  
Robots  
Low Temperature Flexing

For use with following fittings;  
Adaptalok, ATS, Adaptaring & Adaptaseal

Adaptaring Fittings

n/a

Adaptalok, ATS or Adaptaseal Fittings

Adaptalok + ALS Seal or ATS, Adaptaseal Fittings

Adaptalok + ALS Seal or ATS, Adaptaseal Fittings

n/a

Static Applications: -50 °C to +110 °C  
Moving Applications: -45 °C to +120 °C

Very High

High Flexibility - Very High Fatigue Life

Self Extinguishing  
Halogen Free



NF

Rail  
High Impact Resistance  
Low Temperature Flexing

# Non-metallic systems

## TYPE PR, PADL & CP Non-metallic conduit



### PRODUCT CHARACTERISTICS

To order quote part no, colour & reel length - e.g. PRFS13/BL/25M

Type

Description

Materials

Example

#### TYPE PR

##### STANDARD WEIGHT CONDUIT

Modified Polyamide (Nylon) 6  
Colour Black (BL) only.



#### TYPE CP NEW

##### MEDIUM WEIGHT CONDUIT

Polyester  
Colour Black (BL) only.



#### TYPE PADL NEW

##### STANDARD WEIGHT CONDUIT

Modified Polyamide (Nylon) 6  
Colour Black (BL) only.

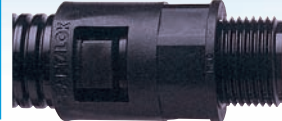


#### TYPE A - ADAPTALOK NEW

##### STRAIGHT FITTING - FIXED EXTERNAL THREAD

For insertion into threaded entries & knockouts.

Polyamide (Nylon) 66  
Colour Black (BL) & Grey (GR).



| NOMINAL CONDUIT SIZE (mm) | OUTSIDE DIAMETER (mm) | NW CONDUIT SIZE (mm) | CONDUIT PITCH | F = FINE C = COARSE |
|---------------------------|-----------------------|----------------------|---------------|---------------------|
| 13                        | 13.0                  | 10.0                 | F             |                     |
| 16                        | 15.8                  | 13.0                 | F             |                     |
| 17                        | 17.8                  | 17.0                 | C             |                     |
| 21                        | 21.2                  | 17.0                 | F             |                     |
| 21                        | 21.2                  | 17.0                 | C             |                     |
| 22                        | 21.8                  | 20.0                 | C             |                     |
| 28                        | 28.5                  | 23.0                 | C             |                     |
| 34                        | 34.5                  | 29.0                 | C             |                     |
| 42                        | 42.5                  | 36.0                 | C             |                     |
| 54                        | 54.5                  | 48.0                 | C             |                     |
| 80                        | 79.3                  | 70.0                 | C             |                     |
| 106                       | 106.0                 | 95.0                 | C             |                     |

| PART NUMBER | INSIDE DIAMETER (mm) | MINIMUM BEND RADIUS (mm) | REEL LENGTH (m) |
|-------------|----------------------|--------------------------|-----------------|
| PRFS13      | 9.4                  | 35                       | 50              |
| PRFS16      | 11.7                 | 45                       | 50              |
| PRFS21      | 16.6                 | 60                       | 50              |
| PRCS21      | 14.7                 | 60                       | 50              |
| -           | -                    | -                        | -               |
| PRCS28      | 21.7                 | 70                       | 50              |
| PRCS34      | 27.7                 | 75                       | 50              |
| PRCS42      | 35.1                 | 90                       | 25              |
| PRCS54      | 46.6                 | 95                       | 25              |
| PRCS80      | 67.3                 | 180                      | 10              |
| PRCS106     | 106.0                | 240                      | 10              |

| PART NUMBER | INSIDE DIAMETER (mm) | MINIMUM BEND RADIUS (mm) | REEL LENGTH (m) |
|-------------|----------------------|--------------------------|-----------------|
| CPFM13      | 9.5                  | 25                       | 50              |
| CPFM16      | 11.3                 | 30                       | 50              |
| -           | -                    | -                        | -               |
| CPFM21      | 16.0                 | 35                       | 50              |
| -           | -                    | -                        | -               |
| CPCM28      | 21.3                 | 45                       | 50              |
| CPCM34      | 27.2                 | 55                       | 50              |
| CPCM42      | 34.2                 | 60                       | 25              |
| CPCM54      | 46.0                 | 70                       | 25              |
| -           | -                    | -                        | -               |
| -           | -                    | -                        | -               |

| PART NUMBER | INSIDE DIAMETER (mm) | MINIMUM BEND RADIUS (mm) | REEL LENGTH (m) |
|-------------|----------------------|--------------------------|-----------------|
| -           | -                    | -                        | -               |
| -           | -                    | -                        | -               |
| PADL17      | 13.5                 | 45                       | 50              |
| -           | -                    | -                        | -               |
| -           | -                    | -                        | -               |
| PADL22      | 16.6                 | 60                       | 50              |
| PADL28      | 22.6                 | 70                       | 25, 50          |
| PADL34      | 27.7                 | 75                       | 25, 50          |
| PADL42      | 35.2                 | 80                       | 10, 25          |
| -           | -                    | -                        | -               |
| -           | -                    | -                        | -               |
| -           | -                    | -                        | -               |

| NOMINAL CONDUIT SIZE (mm) | NPT THREAD | PART NUMBER |
|---------------------------|------------|-------------|
| 17                        | 1/2        | ALD17/050/A |
| 22                        | 1/2        | ALD22/050/A |
| 28                        | 3/4        | ALD28/075/A |
| 34                        | 1          | ALD34/100/A |
| 42                        | 1 1/4      | ALD42/125/A |

For use only with PADL conduit, to maintain the UL 1696 approval

#### TYPE C90 - ADAPTALOK NEW

##### 90° ELBOW FITTING - FIXED EXTERNAL THREAD

For insertion into knockouts using a locknut.

Polyamide (Nylon) 66  
Colour Black (BL) & Grey (GR).



| NOMINAL CONDUIT SIZE (mm) | NPT THREAD | PART NUMBER   |
|---------------------------|------------|---------------|
| 17                        | 1/2        | ALD17/050/C90 |
| 22                        | 1/2        | ALD22/050/C90 |
| 28                        | 3/4        | ALD28/075/C90 |
| 34                        | 1          | ALD34/100/C90 |
| 42                        | 1 1/4      | ALD42/125/C90 |

For use only with PADL conduit, to maintain the UL 1696 approval

Note.  
Other fittings available. Contact our Sales Office for further details.

IP Rating with appropriate fitting

IP40

IP65

IP66

IP67

IP68

NEW IP69k

Temperature Range

UV Resistance

Flexibility & Fatigue Life

Fire Performance & EMI Screen

Approvals

System Applications

For use with following fittings;  
Adaptalok, ATS, Adapting, Adaptaseal & Jumbo

Adapting & Jumbo Fittings

Jumbo Fittings + SK Seal

Adaptalok or Adaptaseal Fittings

Adaptalok + ALS Seal or Adaptaseal Fittings

Adaptalok + ALS Seal or Adaptaseal Fittings

Adaptalok Fittings + ALS Seal

Static Applications: -40 °C to +120 °C  
Moving Applications: -5 °C to +120 °C

Very High

High Flexibility - Medium Fatigue Life



DB NF

Railways  
Underground  
Public Buildings

For use with following fittings;  
Adaptalok, ATS & Adaptaseal

n/a

n/a

Adaptalok or Adaptaseal Fittings

Adaptalok Fittings + ALS Seal & Adaptaseal Fittings

Adaptalok Fittings + ALS Seal & Adaptaseal

Adaptalok Fittings + ALS Seal

Static Applications: -50 °C to +135 °C  
Moving Applications: -25 °C to +150 °C

Very High

Very High Flexibility - Very High Fatigue Life



Railways  
Underground  
Public Buildings

For use with following fittings;  
Adaptalok Type ALD & ATS

n/a

n/a

Type ALD or ATS Fittings

Type ALD + ALS Seal ATS Fittings

Type ALD + ALS Seal ATS Fittings

Type ALD + ALS Seal ATS Fittings

Static Applications: -40 °C to +120 °C  
Moving Applications: -18 °C to +120 °C

Very High

Medium Flexibility - Medium Fatigue Life



Machinery  
Public Buildings

# Adaptalok non-metallic system

## ONE-PIECE PUSH-ON LIQUID TIGHT IP66 FITTINGS

### PRODUCT CHARACTERISTICS

Type

#### TYPE A - ADAPTALOK

Description

STRAIGHT FITTING - FIXED EXTERNAL THREAD

For insertion into threaded entries & knockouts. Locknut supplied with METRIC THREAD ONLY

Materials

Polyamide (Nylon) 66

Colour Black (BL) & Grey (GR).

Example



NOMINAL CONDUIT  
SIZE (mm)

|    | METRIC THREAD | PART NUMBER | PG THREAD | PART NUMBER | PF THREAD | PART NUMBER  | NPT THREAD | PART NUMBER |
|----|---------------|-------------|-----------|-------------|-----------|--------------|------------|-------------|
| 10 | M12           | AL10/M12/A  | PG7       | AL10/PG7/A  | 1/4       | AL10/PF025/A | -          | -           |
| 10 | -             | -           | PG9       | AL10/PG9/A  | -         | -            | -          | -           |
| 13 | M16           | AL13/M16/A  | PG9       | AL13/PG9/A  | 3/8       | AL13/PF038/A | 3/8        | AL13/038/A  |
| 13 | M20           | AL13/M20/A  | PG11      | AL13/PG11/A | -         | -            | -          | -           |
| 13 | -             | -           | PG13.5    | AL13/PG13/A | -         | -            | -          | -           |
| 16 | M16           | AL16/M16/A  | PG9       | AL16/PG9/A  | 3/8       | AL16/PF038/A | 3/8        | AL16/038/A  |
| 16 | M20           | AL16/M20/A  | PG11      | AL16/PG11/A | 1/2       | AL16/PF050/A | 1/2        | AL16/050/A  |
| 16 | -             | -           | PG13.5    | AL16/PG13/A | -         | -            | -          | -           |
| 16 | -             | -           | PG16      | AL16/PG16/A | -         | -            | -          | -           |
| 21 | M20           | AL21/M20/A  | PG11      | AL21/PG11/A | 1/2       | AL21/PF050/A | 1/2        | AL21/050/A  |
| 21 | -             | -           | PG13.5    | AL21/PG13/A | -         | -            | -          | -           |
| 21 | M25           | AL21/M25/A  | PG16      | AL21/PG16/A | -         | -            | -          | -           |
| 28 | M25           | AL28/M25/A  | PG21      | AL28/PG21/A | 3/4       | AL28/PF075/A | 3/4        | AL28/075/A  |
| 28 | M32           | AL28/M32/A  | -         | -           | -         | -            | -          | -           |
| 34 | M32           | AL34/M32/A  | PG29      | AL34/PG29/A | 1         | AL34/PF100/A | 1          | AL34/100/A  |
| 34 | M40           | AL34/M40/A  | -         | -           | -         | -            | -          | -           |
| 42 | M40           | AL42/M40/A  | PG36      | AL42/PG36/A | 1 1/4     | AL42/PF125/A | 1 1/4      | AL42/125/A  |
| 42 | M50           | AL42/M50/A  | -         | -           | -         | -            | -          | -           |
| 54 | M50           | AL54/M50/A  | PG48      | AL54/PG48/A | 1 1/2     | AL54/PF150/A | 1 1/2      | AL54/150/A  |
| 54 | M63           | AL54/M63/A  | -         | -           | 2         | AL54/PF200/A | -          | -           |

IP Rating with  
appropriate fitting

IP40

IP65

IP66

IP67

IP68

NEW IP69k

For use with following conduit;

Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Temperature Range

Static Applications: -50 °C to +120 °C

Moving Applications: -45 °C to +120 °C

Fitting Characteristics



Approvals



To order quote part no & colour - e.g. AL10/M12/A/BL

#### TYPE C90 - ADAPTALOK

90° ELBOW FITTING - FIXED EXTERNAL THREAD

For insertion into knockouts using a locknut. Locknut supplied with METRIC THREAD ONLY

Polyamide (Nylon) 66

Colour Black (BL) & Grey (GR) .



|     | METRIC THREAD | PART NUMBER | PG THREAD     | PART NUMBER | PF THREAD      | PART NUMBER | NPT THREAD   | PART NUMBER |
|-----|---------------|-------------|---------------|-------------|----------------|-------------|--------------|-------------|
| M12 | AL10/M12/C90  | PG7         | AL10/PG7/C90  | -           | -              | -           | -            | -           |
| M16 | AL13/M16/C90  | PG9         | AL13/PG9/C90  | 3/8         | AL13/PF038/C90 | 3/8         | AL13/038/C90 | -           |
| -   | -             | -           | -             | -           | -              | -           | -            | -           |
| M16 | AL16/M16/C90  | PG9         | AL16/PG9/C90  | 3/8         | AL16/PF038/C90 | 3/8         | AL16/038/C90 | -           |
| M20 | AL16/M20/C90  | PG11        | AL16/PG11/C90 | 1/2         | AL16/PF050/C90 | 1/2         | AL16/050/C90 | -           |
| -   | -             | PG13.5      | AL16/PG13/C90 | -           | -              | -           | -            | -           |
| -   | -             | -           | -             | -           | -              | -           | -            | -           |
| M20 | AL21/M20/C90  | PG13.5      | AL21/PG13/C90 | 1/2         | AL21/PF050/C90 | 1/2         | AL21/050/C90 | -           |
| -   | -             | PG16        | AL21/PG16/C90 | -           | -              | -           | -            | -           |
| -   | -             | -           | -             | -           | -              | -           | -            | -           |
| M25 | AL28/M25/C90  | PG21        | AL28/PG21/C90 | 3/4         | AL28/PF075/C90 | 3/4         | AL28/075/C90 | -           |
| -   | -             | -           | -             | -           | -              | -           | -            | -           |
| M32 | AL34/M32/C90  | PG29        | AL34/PG29/C90 | 1           | AL34/PF100/C90 | 1           | AL34/100/C90 | -           |
| -   | -             | -           | -             | -           | -              | -           | -            | -           |
| M40 | AL42/M40/C90  | PG36        | AL42/PG36/C90 | 1 1/4       | AL42/PF125/C90 | 1 1/4       | AL42/125/C90 | -           |
| -   | -             | -           | -             | -           | -              | -           | -            | -           |
| M50 | AL54/M50/C90  | PG48        | AL54/PG48/C90 | 1 1/2       | AL54/PF150/C90 | 1 1/2       | AL54/150/C90 | -           |
| M63 | AL54/M63/C90  | -           | -             | 2           | AL54/PF200/C90 | 2           | AL54/200/C90 | -           |

For use with following conduit;

Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Static Applications: -50 °C to +120 °C

Moving Applications: -45 °C to +120 °C



# Adaptalok non-metallic system

## ONE-PIECE PUSH-ON LIQUID TIGHT IP66 FITTINGS

### PRODUCT CHARACTERISTICS

To order quote part no & colour - e.g. AL13/M16/45/GR

Type  
Description  
Materials  
Example

#### TYPE 45 - ADAPTALOK

**45° ELBOW FITTING - FIXED EXTERNAL THREAD**  
For insertion into knockouts using a locknut.  
Locknut supplied with METRIC THREAD ONLY

Polyamide (Nylon) 66  
Colour Black (BL) & Grey (GR) .



NOMINAL CONDUIT  
SIZE (mm)

| METRIC THREAD | PART NUMBER     | PG THREAD | PART NUMBER  |
|---------------|-----------------|-----------|--------------|
| 13            | M16 AL13/M16/45 | PG9       | AL13/PG9/45  |
| 16            | M16 AL16/M16/45 | PG11      | AL16/PG11/45 |
| 16            | M20 AL16/M20/45 | PG13.5    | AL16/PG13/45 |
| 17            | -               | -         | -            |
| 21            | M20 AL21/M20/45 | PG13.5    | AL21/PG13/45 |
| 21            | -               | PG16      | AL21/PG16/45 |
| 22            | -               | -         | -            |
| 28            | M25 AL28/M25/45 | PG21      | AL28/PG21/45 |
| 34            | M32 AL34/M32/45 | PG29      | AL34/PG29/45 |
| 42            | M40 AL42/M40/45 | PG36      | AL42/PG36/45 |
| 54            | M50 AL54/M50/45 | PG48      | AL54/PG48/45 |
| 54            | M63 AL54/M63/45 | -         | -            |

#### PUSH-IN - ADAPTALOK

**STRAIGHT - ONE PIECE COUPLER**  
Inserts into a 20mm knock-out, panel  
thickness up to 4mm, no locknut required

Polyamide (Nylon) 66  
Colour Black (BL) & Grey (GR) .



| PART NUMBER |
|-------------|
| -           |
| -           |
| AL16/KM20/A |
| -           |
| AL21/KM20/A |
| -           |
| -           |
| -           |
| -           |
| -           |
| -           |
| -           |

#### 3-WAY COUPLER

**3-WAY PA66 FITTING**  
For coupling to corrugated flexible conduit

Polyamide (Nylon) 66  
Colour Black (BL) & Grey (GR) .



NOMINAL CONDUIT  
SIZE COMBINATION

| PART NUMBER         |
|---------------------|
| 13X10X10 AL131010/Y |
| -                   |
| 16X13X13 AL161313/Y |
| -                   |
| 21X16X16 AL211616/Y |
| -                   |
| -                   |
| 28X21X21 AL282121/Y |
| -                   |
| -                   |
| -                   |
| -                   |
| -                   |

#### INSERT SEAL - NEW

**IP67/68/69k INSERT SEAL**  
Suitable for standard weight PA/PI/PR  
conduit Black or Grey.

Thermoplastic Elastomer  
Colour Yellow (Y) only.



CONDUIT PITCH  
F = FINE C = COARSE

| PART NUMBER |
|-------------|
| F ALS13/F   |
| F ALS16/F   |
| F ALS16/F   |
| C ALS17/C   |
| F ALS21/F   |
| F ALS21/F   |
| C ALS22/C   |
| C ALS28/C   |
| C ALS34/C   |
| C ALS42/C   |
| C ALS54/C   |
| C ALS54/C   |

#### Note.

Seal needs to be inserted into the  
appropriate conduit to upgrade  
fitting system

IP Rating with  
appropriate fitting

IP40

IP65

IP66

IP67

IP68

NEW IP69k

Temperature Range

Fitting Characteristics

Approvals

For use with following conduit;  
Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C



For use with following conduit;  
Type PA, PI, CP & PR

n/a

n/a

n/a

n/a

n/a

n/a

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C



For use with following conduit;  
Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C



For use with following fittings;  
Adaptalok

n/a

n/a

n/a

Adaptalok Fittings

Adaptalok Fittings (1.1 bar 35mins)

Adaptalok Fittings (DIN 40050)

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C





## PRODUCT CHARACTERISTICS

| Type                         | TYPE FL/A - ADAPTALOK                                                             | TYPE FL/C90 - ADAPTALOK                                                                                                                                                                                                    | TYPE FL/45 - ADAPTALOK                                                             | SWIVEL COUPLER                                                                      |
|------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Description                  | STRAIGHT PANEL MOUNTING SWIVEL FLANGE<br>with integral face seal.                 | 90° ELBOW BODY - PANEL MOUNT FLANGE<br>For panel mounting via 2 hole fixing & integral face seal.                                                                                                                          | 45° PANEL MOUNTING SWIVEL FLANGE<br>with integral face seal.                       | STRAIGHT PA66 BODY - SWIVEL COUPLER<br>For coupling to corrugated flexible conduit. |
| Materials                    | Polyamide (Nylon) 66<br>Colour Black (BL) & Grey (GR) .                           | Polyamide (Nylon) 66<br>Colour Black (BL) & Grey (GR) .                                                                                                                                                                    | Polyamide (Nylon) 66<br>Colour Black (BL) & Grey (GR) .                            | Polyamide (Nylon) 66 + Aluminium<br>Colour Black (BL) only.                         |
| Example                      |  |                                                                                                                                           |  |  |
| NOMINAL CONDUIT<br>SIZE (mm) | PART NUMBER                                                                       | PART NUMBER                                                                                                                                                                                                                | PART NUMBER                                                                        | PART NUMBER                                                                         |
| 13                           | -                                                                                 | AL13/FL/C90                                                                                                                                                                                                                | -                                                                                  | AL13-AL13/A/000040                                                                  |
| 16                           | AL16/FL/A                                                                         | AL16/FL/C90                                                                                                                                                                                                                | AL16/FL/45                                                                         | AL16-AL16/A/000040                                                                  |
| 21                           | AL21/FL/A                                                                         | AL21/FL/C90                                                                                                                                                                                                                | AL21/FL/45                                                                         | AL21-AL21/A/000040                                                                  |
| 28                           | AL28/FL/A                                                                         | AL28/FL/C90                                                                                                                                                                                                                | AL28/FL/45                                                                         | AL28-AL28/A/000040                                                                  |
| 34                           | -                                                                                 | AL34/FL/90*                                                                                                                                                                                                                | -                                                                                  | AL34-AL34/A/000040                                                                  |
| 42                           | -                                                                                 | AL42/FL/90*                                                                                                                                                                                                                | -                                                                                  | AL42-AL42/A/000040                                                                  |
| 54                           | AL54/FL/A                                                                         | AL54/FL/90*                                                                                                                                                                                                                | AL54/FL/45                                                                         | AL54-AL54/A/006540                                                                  |
|                              |                                                                                   | <b>*TYPE FL/90 - ADAPTALOK</b><br>90° ELBOW FITTING - PANEL MOUNT FLANGE<br>For panel mounting via 4 hole fixing & integral face seal.  |                                                                                    |                                                                                     |

### IP Rating with appropriate fitting

IP40

IP65

IP66

IP67

IP68

NEW IP69k

### Temperature Range

### Fitting Characteristics

### Approvals

For use with following conduit;  
Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C



For use with following conduit;  
Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C



For use with following conduit;  
Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C



For use with following conduit;  
Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

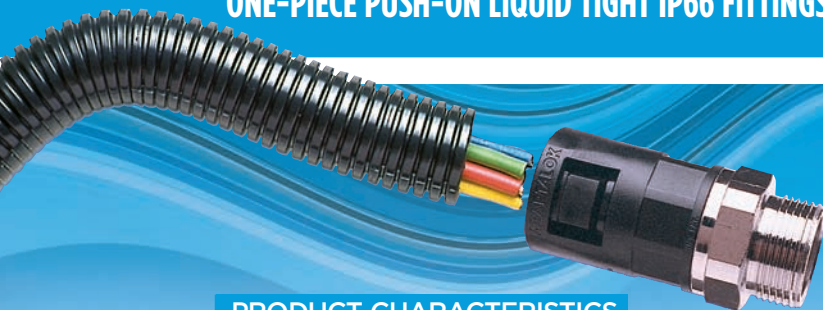
Type PA, PI, CP & PR conduit + ALS Seal

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C



# Adaptalok non-metallic system

## ONE-PIECE PUSH-ON LIQUID TIGHT IP66 FITTINGS WITH SWIVEL BRASS THREADS



### PRODUCT CHARACTERISTICS

#### Type

#### TYPE SA - ADAPTALOK

#### Description

**STRAIGHT FITTING - SWIVEL EXTERNAL MALE THREAD**  
For insertion into threaded entries & knockouts.

#### Materials

Polyamide (Nylon) 66. Nickel plated brass thread.  
Colour Black (BL) & Grey (GR) .

#### Example



#### NOMINAL CONDUIT SIZE (mm)

|    | METRIC THREAD | PART NUMBER  | PG THREAD | PART NUMBER   |
|----|---------------|--------------|-----------|---------------|
| 13 | M16           | AL13/M16/SA/ | PG9       | AL13/PG9/SA/  |
| 16 | M16           | AL16/M16/SA/ | PG11      | AL16/PG11/SA/ |
| 21 | M20           | AL21/M20/SA/ | PG13.5    | AL21/PG13/SA/ |
| 21 | -             | -            | PG16      | AL21/PG16/SA/ |
| 28 | M25           | AL28/M25/SA/ | PG21      | AL28/PG21/SA/ |
| 34 | M32           | AL34/M32/SA/ | PG29      | AL34/PG29/SA/ |
| 42 | M40           | AL42/M40/SA/ | PG36      | AL42/PG36/SA/ |
| 54 | M50           | AL54/M50/SA/ | PG48      | AL54/PG48/SA/ |
| 54 | M63           | AL54/M63/SA/ | -         | -             |

#### TYPE CS90 - ADAPTALOK

**90° ELBOW FITTING - SWIVEL EXTERNAL MALE THREAD**  
For insertion into threaded entries & knockouts.

Polyamide (Nylon) 66. Nickel plated brass thread.  
Colour Black (BL) & Grey (GR) .



| METRIC THREAD | PART NUMBER    | PG THREAD | PART NUMBER     |
|---------------|----------------|-----------|-----------------|
| M16           | AL13/M16/CS90/ | PG9       | AL13/PG9/CS90/  |
| M16           | AL16/M16/CS90/ | PG11      | AL16/PG11/CS90/ |
| M20           | AL21/M20/CS90/ | PG13.5    | AL21/PG13/CS90/ |
| -             | -              | PG16      | AL21/PG16/CS90/ |
| M25           | AL28/M25/CS90/ | PG21      | AL28/PG21/CS90/ |
| M32           | AL34/M32/CS90/ | PG29      | AL34/PG29/CS90/ |
| M40           | AL42/M40/CS90/ | PG36      | AL42/PG36/CS90/ |
| M50           | AL54/M50/CS90/ | PG48      | AL54/PG48/CS90/ |
| M63           | AL54/M63/CS90/ | -         | -               |

#### TYPE S45 - ADAPTALOK

**45° ELBOW BODY - SWIVEL EXTERNAL MALE THREAD**  
For insertion into threaded entries & knockouts.

Polyamide (Nylon) 66. Nickel plated brass thread.  
Colour Black (BL) & Grey (GR) .



| METRIC THREAD | PART NUMBER   | PG THREAD | PART NUMBER    |
|---------------|---------------|-----------|----------------|
| M16           | AL13/M16/S45/ | PG9       | AL13/PG9/S45/  |
| M16           | AL16/M16/S45/ | PG11      | AL16/PG11/S45/ |
| M20           | AL21/M20/S45/ | PG13.5    | AL21/PG13/S45/ |
| -             | -             | PG16      | AL21/PG16/S45/ |
| M25           | AL28/M25/S45/ | PG21      | AL28/PG21/S45/ |
| M32           | AL34/M32/S45/ | PG29      | AL34/PG29/S45/ |
| M40           | AL42/M40/S45/ | PG36      | AL42/PG36/S45/ |
| M50           | AL54/M50/S45/ | PG48      | AL54/PG48/S45/ |
| M63           | AL54/M63/S45/ | -         | -              |

#### IP Rating with appropriate fitting

IP40

IP65

IP66

IP67

IP68

NEW IP69k

For use with following conduit;  
Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

#### Temperature Range

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C

#### Fitting Characteristics



#### Approvals



For use with following conduit;  
Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C



For use with following conduit;  
Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C





## PRODUCT CHARACTERISTICS

### Type

### Description

### Materials

### Example

## TYPE SFA - ADAPTALOK

**STRAIGHT BODY - SWIVEL INTERNAL FEMALE THREAD**  
For attachment to external threads & other fittings.

Polyamide (Nylon) 66. Nickel plated brass thread.  
Colour Black (BL) & Grey (GR).



### NOMINAL CONDUIT SIZE (mm)

|    | METRIC THREAD | PART NUMBER   | PG THREAD | PART NUMBER    |
|----|---------------|---------------|-----------|----------------|
| 13 | M16           | AL13/M16/SFA/ | PG9       | AL13/PG9/SFA/  |
| 16 | M16           | AL16/M16/SFA/ | PG11      | AL16/PG11/SFA/ |
| 21 | M20           | AL21/M20/SFA/ | PG13.5    | AL21/PG13/SFA/ |
| 21 | -             | -             | PG16      | AL21/PG16/SFA/ |
| 28 | M25           | AL28/M25/SFA/ | PG21      | AL28/PG21/SFA/ |
| 34 | M32           | AL34/M32/SFA/ | PG29      | AL34/PG29/SFA/ |
| 42 | M40           | AL42/M40/SFA/ | PG36      | AL42/PG36/SFA/ |
| 54 | M50           | AL54/M50/SFA/ | PG48      | AL54/PG48/SFA/ |
| 54 | M63           | AL54/M63/SFA/ | -         | -              |

### IP Rating with appropriate fitting

IP40

IP65

IP66

IP67

IP68

NEW IP69K

For use with following conduit;  
Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

### Temperature Range

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C

### Fitting Characteristics



### Approvals



## TYPE CSF90 - ADAPTALOK

**90° ELBOW FITTING - SWIVEL INTERNAL FEMALE THREAD**  
For attachment to external threads & other fittings.

Polyamide (Nylon) 66. Nickel plated brass thread.  
Colour Black (BL) & Grey (GR).



| METRIC THREAD | PART NUMBER     | PG THREAD | PART NUMBER      |
|---------------|-----------------|-----------|------------------|
| M16           | AL13/M16/CSF90/ | PG9       | AL13/PG9/CSF90/  |
| M16           | AL16/M16/CSF90/ | PG11      | AL16/PG11/CSF90/ |
| M20           | AL21/M20/CSF90/ | PG13.5    | AL21/PG13/CSF90/ |
| -             | -               | PG16      | AL21/PG16/CSF90/ |
| M25           | AL28/M25/CSF90/ | PG21      | AL28/PG21/CSF90/ |
| M32           | AL34/M32/CSF90/ | PG29      | AL34/PG29/CSF90/ |
| M40           | AL42/M40/CSF90/ | PG36      | AL42/PG36/CSF90/ |
| M50           | AL54/M50/CSF90/ | PG48      | AL54/PG48/CSF90/ |

For use with following conduit;  
Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal



## TYPE SF45 - ADAPTALOK

**45° ELBOW BODY - SWIVEL INTERNAL FEMALE THREAD**  
For attachment to external threads & other fittings.

Polyamide (Nylon) 66. Nickel plated brass thread.  
Colour Black (BL) & Grey (GR).



| METRIC THREAD | PART NUMBER    | PG THREAD | PART NUMBER     |
|---------------|----------------|-----------|-----------------|
| M16           | AL13/M16/SF45/ | PG9       | AL13/PG9/SF45/  |
| M16           | AL16/M16/SF45/ | PG11      | AL16/PG11/SF45/ |
| M20           | AL21/M20/SF45/ | PG13.5    | AL21/PG13/SF45/ |
| -             | -              | PG16      | AL21/PG16/SF45/ |
| M25           | AL28/M25/SF45/ | PG21      | AL28/PG21/SF45/ |
| M32           | AL34/M32/SF45/ | PG29      | AL34/PG29/SF45/ |
| M40           | AL42/M40/SF45/ | PG36      | AL42/PG36/SF45/ |
| M50           | AL54/M50/SF45/ | PG48      | AL54/PG48/SF45/ |
| -             | -              | -         | -               |

For use with following conduit;  
Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal



# Adaptalok non-metallic system

## UNEF CIRCULAR CONNECTOR FITTINGS (MIL C 5015)

### PRODUCT CHARACTERISTICS

#### Type

#### Description

#### Materials

#### Example

### TYPE A - ADAPTALOK

**STRAIGHT BODY - SWIVEL INTERNAL THREAD**  
For coupling to UNEF circular connectors.

Polyamide (Nylon) 66 & Aluminium  
Colour Black (BL) only.



### TYPE C90 - ADAPTALOK

**90° ELBOW BODY - SWIVEL INTERNAL THREAD**  
For coupling to UNEF circular connectors.

Polyamide (Nylon) 66 & Aluminium  
Colour Black (BL) only.



### TYPE 45 - ADAPTALOK

**45° ELBOW BODY - SWIVEL INTERNAL THREAD**  
For coupling to UNEF circular connectors.

Polyamide (Nylon) 66 & Aluminium  
Colour Black (BL) only.



| NOMINAL CONDUIT SIZE (mm) | CONNECTOR UNEF THREAD | PART NUMBER  | NOMINAL CONDUIT SIZE (mm) | CONNECTOR UNEF THREAD | PART NUMBER  |
|---------------------------|-----------------------|--------------|---------------------------|-----------------------|--------------|
| 13 5/8" - 24              |                       | AL13/U063/A/ | 21 1 1/8" - 18            |                       | AL21/U144/A/ |
| 13 3/4" - 20              |                       | AL13/U075/A/ | 21 1 1/4" - 18            |                       | AL21/U175/A/ |
| 13 1/2" - 20              |                       | AL13/U088/A/ | 28 1 1/8" - 20            |                       | AL28/U088/A/ |
| 16 5/8" - 24              |                       | AL16/U063/A/ | 28 5/8" - 20              |                       | AL28/U094/A/ |
| 16 3/4" - 20              |                       | AL16/U075/A/ | 28 1" - 20                |                       | AL28/U100/A/ |
| 16 3/4" - 20              |                       | AL16/U081/A/ | 28 1 1/8" - 18            |                       | AL28/U119/A/ |
| 16 5/8" - 20              |                       | AL16/U088/A/ | 28 1 1/8" - 18            |                       | AL28/U138/A/ |
| 16 5/8" - 20              |                       | AL16/U094/A/ | 28 1 1/8" - 18            |                       | AL28/U144/A/ |
| 16 1" - 20                |                       | AL16/U100/A/ | 28 1 1/4" - 18            |                       | AL28/U175/A/ |
| 16 1 1/8" - 18            |                       | AL16/U119/A/ | 28 2" - 18                |                       | AL28/U200/A/ |
| 16 1 1/8" - 18            |                       | AL16/U131/A/ | 28 2 1/4" - 18            |                       | AL28/U225/A/ |
| 21 5/8" - 20              |                       | AL21/U075/A/ | 34 1" - 20                |                       | AL34/U100/A/ |
| 21 1/2" - 20              |                       | AL21/U088/A/ | 34 1 1/8" - 18            |                       | AL34/U119/A/ |
| 21 5/8" - 20              |                       | AL21/U094/A/ | 34 1 1/8" - 18            |                       | AL34/U144/A/ |
| 21 1" - 20                |                       | AL21/U100/A/ | 34 1 1/4" - 18            |                       | AL34/U175/A/ |
| 21 1 1/8" - 18            |                       | AL21/U113/A/ | 34 2" - 18                |                       | AL34/U200/A/ |
| 21 1 1/8" - 18            |                       | AL21/U119/A/ | 42 1 1/4" - 18            |                       | AL42/U175/A/ |
| 21 1 1/8" - 18            |                       | AL21/U131/A/ | 42 2" - 18                |                       | AL42/U200/A/ |
| 21 1 1/4" - 18            |                       | AL21/U138/A/ |                           |                       |              |

| NOMINAL CONDUIT SIZE (mm) | CONNECTOR UNEF THREAD | PART NUMBER    | NOMINAL CONDUIT SIZE (mm) | CONNECTOR UNEF THREAD | PART NUMBER    |
|---------------------------|-----------------------|----------------|---------------------------|-----------------------|----------------|
| 13 5/8" - 24              |                       | AL13/U063/C90/ | 21 1 1/8" - 18            |                       | AL21/U144/C90/ |
| 13 3/4" - 20              |                       | AL13/U075/C90/ | 21 1 1/4" - 18            |                       | AL21/U175/C90/ |
| 13 1/2" - 20              |                       | AL13/U088/C90/ | 28 1 1/8" - 20            |                       | AL28/U088/C90/ |
| 16 5/8" - 24              |                       | AL16/U063/C90/ | 28 5/8" - 20              |                       | AL28/U094/C90/ |
| 16 3/4" - 20              |                       | AL16/U075/C90/ | 28 1" - 20                |                       | AL28/U100/C90/ |
| 16 5/8" - 20              |                       | AL16/U081/C90/ | 28 1 1/8" - 18            |                       | AL28/U119/C90/ |
| 16 5/8" - 20              |                       | AL16/U088/C90/ | 28 1 1/8" - 18            |                       | AL28/U138/C90/ |
| 16 5/8" - 20              |                       | AL16/U094/C90/ | 28 1 1/8" - 18            |                       | AL28/U144/C90/ |
| 16 1" - 20                |                       | AL16/U100/C90/ | 28 1 1/4" - 18            |                       | AL28/U175/C90/ |
| 16 1 1/8" - 18            |                       | AL16/U119/C90/ | 28 2" - 18                |                       | AL28/U200/C90/ |
| 16 1 1/8" - 18            |                       | AL16/U131/C90/ | 28 2 1/4" - 18            |                       | AL28/U225/C90/ |
| 21 5/8" - 20              |                       | AL21/U075/C90/ | 34 1" - 20                |                       | AL34/U100/C90/ |
| 21 1/2" - 20              |                       | AL21/U088/C90/ | 34 1 1/8" - 18            |                       | AL34/U119/C90/ |
| 21 5/8" - 20              |                       | AL21/U094/C90/ | 34 1 1/8" - 18            |                       | AL34/U144/C90/ |
| 21 1" - 20                |                       | AL21/U100/C90/ | 34 1 1/4" - 18            |                       | AL34/U175/C90/ |
| 21 1 1/8" - 18            |                       | AL21/U113/C90/ | 34 2" - 18                |                       | AL34/U200/C90/ |
| 21 1 1/8" - 18            |                       | AL21/U119/C90/ | 42 1 1/4" - 18            |                       | AL42/U175/C90/ |
| 21 1 1/8" - 18            |                       | AL21/U131/C90/ | 42 2" - 18                |                       | AL42/U200/C90/ |
| 21 1 1/4" - 18            |                       | AL21/U138/C90/ |                           |                       |                |

| NOMINAL CONDUIT SIZE (mm) | CONNECTOR UNEF THREAD | PART NUMBER   | NOMINAL CONDUIT SIZE (mm) | CONNECTOR UNEF THREAD | PART NUMBER   |
|---------------------------|-----------------------|---------------|---------------------------|-----------------------|---------------|
| 13 5/8" - 24              |                       | AL13/U063/45/ | 21 1 1/8" - 18            |                       | AL21/U144/45/ |
| 13 3/4" - 20              |                       | AL13/U075/45/ | 21 1 1/4" - 18            |                       | AL21/U175/45/ |
| 13 1/2" - 20              |                       | AL13/U088/45/ | 28 1 1/8" - 20            |                       | AL28/U088/45/ |
| 16 5/8" - 24              |                       | AL16/U063/45/ | 28 5/8" - 20              |                       | AL28/U094/45/ |
| 16 3/4" - 20              |                       | AL16/U075/45/ | 28 1" - 20                |                       | AL28/U100/45/ |
| 16 5/8" - 20              |                       | AL16/U081/45/ | 28 1 1/8" - 18            |                       | AL28/U119/45/ |
| 16 5/8" - 20              |                       | AL16/U088/45/ | 28 1 1/8" - 18            |                       | AL28/U138/45/ |
| 16 5/8" - 20              |                       | AL16/U094/45/ | 28 1 1/8" - 18            |                       | AL28/U144/45/ |
| 16 1" - 20                |                       | AL16/U100/45/ | 28 1 1/4" - 18            |                       | AL28/U175/45/ |
| 16 1 1/8" - 18            |                       | AL16/U119/45/ | 28 2" - 18                |                       | AL28/U200/45/ |
| 16 1 1/8" - 18            |                       | AL16/U131/45/ | 28 2 1/4" - 18            |                       | AL28/U225/45/ |
| 21 5/8" - 20              |                       | AL21/U075/45/ | 34 1" - 20                |                       | AL34/U100/45/ |
| 21 1/2" - 20              |                       | AL21/U088/45/ | 34 1 1/8" - 18            |                       | AL34/U119/45/ |
| 21 5/8" - 20              |                       | AL21/U094/45/ | 34 1 1/8" - 18            |                       | AL34/U144/45/ |
| 21 1" - 20                |                       | AL21/U100/45/ | 34 1 1/4" - 18            |                       | AL34/U175/45/ |
| 21 1 1/8" - 18            |                       | AL21/U113/45/ | 34 2" - 18                |                       | AL34/U200/45/ |
| 21 1 1/8" - 18            |                       | AL21/U119/45/ | 42 1 1/4" - 18            |                       | AL42/U175/45/ |
| 21 1 1/8" - 18            |                       | AL21/U131/45/ | 42 2" - 18                |                       | AL42/U200/45/ |
| 21 1 1/4" - 18            |                       | AL21/U138/45/ |                           |                       |               |

IP Rating with appropriate fitting

IP40

IP65

IP66

IP67

IP68

NEW IP69K

Temperature Range

Fitting Characteristics

Approvals

For use with following conduit;  
Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C



For use with following conduit;  
Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C



For use with following conduit;  
Type PA, PI, CP & PR

n/a

n/a

Type PA, PI, CP & PR conduit

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Type PA, PI, CP & PR conduit + ALS Seal

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C



# Jumbo non-metallic system

## CLIP TOGETHER IP40 FITTINGS

### PRODUCT CHARACTERISTICS

Type  
Description  
Materials  
Example

#### TYPE FL/A - ADAPTALOK

STRAIGHT PANEL MOUNTING SWIVEL FLANGE  
with integral face seal.

Polyamide (Nylon) 66  
Colour Black (BL) & Grey (GR).



NOMINAL CONDUIT  
SIZE (mm)  
80  
106

PART NUMBER  
ADC80/FL/A  
ADC106/FL/A

#### TYPE CP/90 COUPLER

90° COUPLER  
For coupling to corrugated flexible conduit.

Polyamide (Nylon) 66  
Colour Black (BL) & Grey (GR).



PART NUMBER  
ADC80/CP/90  
ADC106/CP/90

#### TYPE FL/90 - ADAPTALOK

90° JUMBO FLANGE  
with integral face seal.

Polyamide (Nylon) 66  
Colour Black (BL) & Grey (GR).



PART NUMBER  
ADC80/FL/90  
ADC106/FL/90

#### TYPE SK

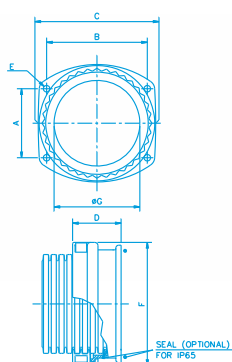
SEALING KIT  
For use with JUMBO Fittings to achieve IP65.  
Consists of 2 sealing washers & 'O' rings per kit.

Rubber  
Colour Black (BL) only.

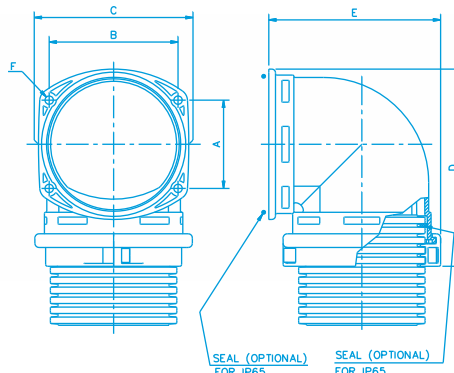


NOMINAL CONDUIT  
SIZE (mm)  
80  
106  
PART NUMBER  
SK80  
SK106

| NOMINAL<br>SIZE (mm) | PART NUMBER<br>ADC80/FL/A | PART NUMBER<br>ADC106/FL/A |
|----------------------|---------------------------|----------------------------|
| A                    | 60.0                      | 74.0                       |
| B                    | 80.0                      | 108.0                      |
| C                    | 98.0                      | 126.0                      |
| D                    | 52.5                      | 52.5                       |
| E Ø                  | 7.0                       | 7.0                        |
| F                    | 106.0                     | 132.0                      |



| NOMINAL<br>SIZE (mm) | PART NUMBER<br>ADC80/FL/A | PART NUMBER<br>ADC106/FL/A |
|----------------------|---------------------------|----------------------------|
| A                    | 60.0                      | 74.0                       |
| B                    | 80.0                      | 108.0                      |
| C                    | 96.0                      | 126.0                      |
| D                    | 128.0                     | 166.0                      |
| E                    | 110.5                     | 144.0                      |
| F Ø                  | 7.0                       | 7.0                        |



IP Rating with  
appropriate fitting

IP40  
IP65  
IP66  
IP67  
IP68  
IP69k

For use with following conduit;  
Type PA, PI & PR JUMBO only  
Type PA, PI & PR JUMBO conduit  
Type PA, PI & PI JUMBO conduit + SK Seal  
n/a  
n/a  
n/a  
n/a

Temperature Range

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C

Fitting Characteristics

Approvals



## What is Adaptalok ATS™? **NEW**



### The Unique and Ultimate new non metallic conduit system... Adaptalok ATS™ from Adaptaflex

Adaptalok ATS™ represents a unique and innovative solution in flexible conduit systems. Until now, manufacturers have produced fittings and seals separately, and assembled them together, or had the customer assemble them. This increases assembly time and introduces the possibility for errors.

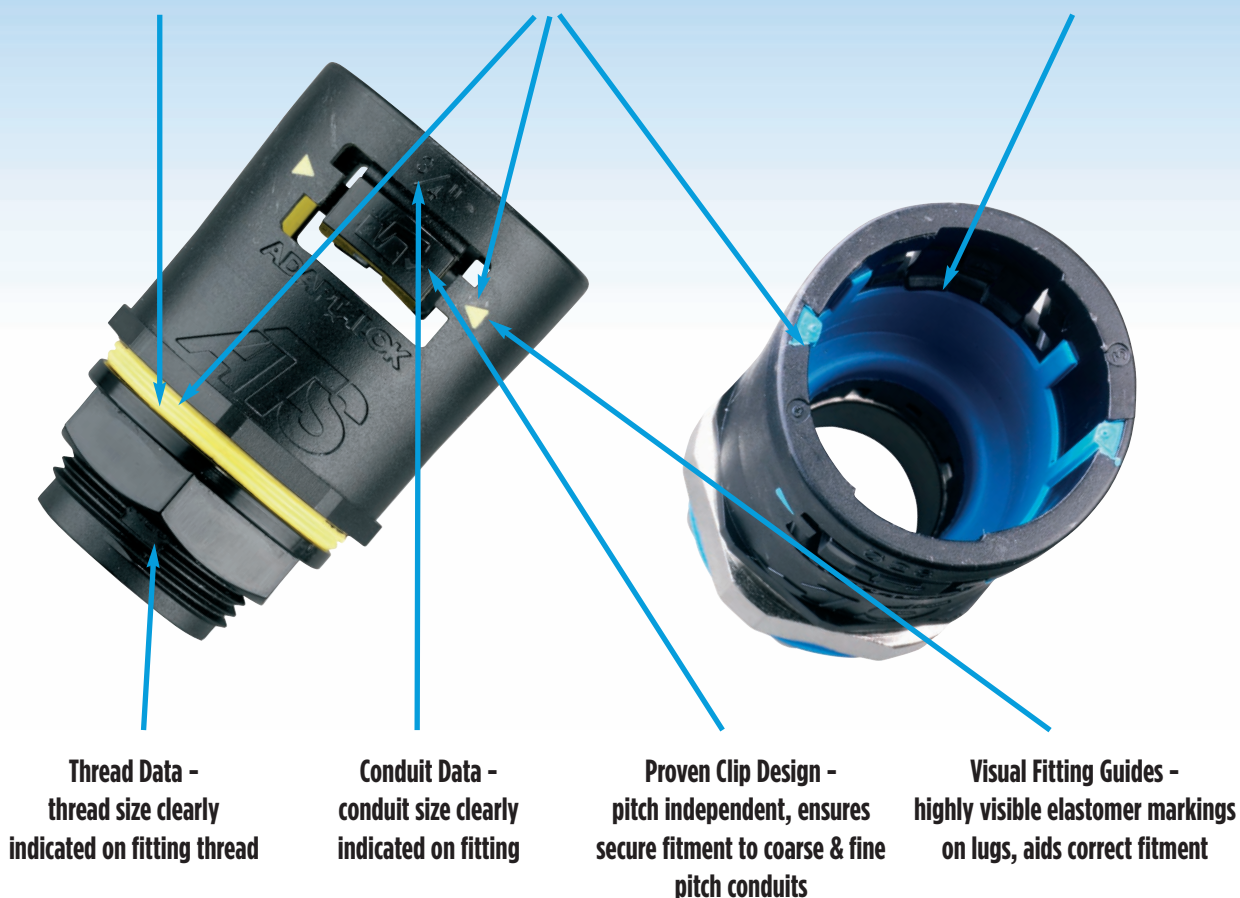
Adaptalok ATS™ uses a sophisticated moulding process to mould an internal conduit seal and a face seal washer. This makes installation times very fast, and extremely reliable, because the seals cannot be left out. The conduit system also benefits from the highest IP rating possible.

#### Key Features

**Integral Face Seal Washer -**  
guaranteed fit, cannot be lost or  
fitted incorrectly. No assembly

**High Visibility Elastomer -**  
3 visible confirmation points

**Internal Elastomer Conduit Seal -**  
guaranteed fit, cannot be lost or  
fitted incorrectly. No Assembly &  
protects cables



#### Additional Key Features

- Nylon 6.6 Body
- IP66, 67, 68 & 69k performance as standard

- One piece fitting, no customer assembly
- UL 1696 version - Light Blue Elastomer

# Adaptalok ATS™ non-metallic system **NEW**

## ONE-PIECE PUSH-ON LIQUID TIGHT IP68/69k FITTINGS

### PRODUCT CHARACTERISTICS

Type  
Description  
Materials  
Example

#### TYPE A - ADAPTALOK ATS™ NEW

##### STRAIGHT FITTING - FIXED EXTERNAL THREAD

For insertion into knockouts using a locknut. Locknut supplied with METRIC & NPT thread

Polyamide (Nylon) 66/TPE

Body Colour Black (BL) & Grey (GR) . Yellow (Y) Elastomer



NOMINAL CONDUIT  
SIZE (mm)

|       | METRIC THREAD | PART NUMBER | PT THREAD | PART NUMBER  | NPT THREAD | PART NUMBER |
|-------|---------------|-------------|-----------|--------------|------------|-------------|
| 13    | M16           | AT13/M16/A  | 3/8       | AT13/PF038/A | 3/8        | AT13/038/A  |
| 13    | M20           | AT13/M20/A  | -         | -            | -          | -           |
| 16    | M16           | AT16/M16/A  | 3/8       | AT16/PF038/A | 3/8        | AT16/038/A  |
| 16    | M20           | AT16/M20/A  | 1/2       | AT16/PF050/A | 1/2        | AT16/050/A  |
| 21/22 | M20           | AT21/M20/A  | 1/2       | AT21/PF050/A | 1/2        | AT21/050/A  |
| 21/22 | M25           | AT21/M25/A  | -         | -            | -          | -           |
| 28    | M25           | AT28/M25/A  | 3/4       | AT28/PF075/A | 3/4        | AT28/075/A  |
| 28    | M32           | AT28/M32/A  | -         | -            | -          | -           |
| 34    | M32           | AT34/M32/A  | 1         | AT34/PF100/A | 1          | AT34/100/A  |
| 34    | M40           | AT34/M40/A  | -         | -            | -          | -           |
| 42    | M40           | AT42/M40/A  | 1 1/4     | AT42/PF125/A | 1 1/4      | AT42/125/A  |
| 42    | M50           | AT42/M50/A  | -         | -            | -          | -           |
| 48    | M50           | AT48/M50/A  | 1 1/2     | AT48/PF150/A | 1 1/2      | AT48/150/A  |
| 54    | M50           | AT54/M50/A  | -         | -            | -          | -           |
| 54    | M63           | AT54/M63/A  | 2         | AT54/PF200/A | 2          | AT54/200/A  |

To order quote part no, body colour & elastomer colour- e.g. AT21/M20/C90/BLY

#### TYPE A - ADAPTALOK ATS™ NEW

##### STRAIGHT FITTING - FIXED EXTERNAL THREAD

For insertion into knockouts using a locknut. Locknut supplied with METRIC & NPT thread

Polyamide (Nylon) 66/TPE

Body Colour Black (BL) & Grey (GR) . Blue (B) Elastomer



| METRIC THREAD | PART NUMBER | NPT THREAD | PART NUMBER |
|---------------|-------------|------------|-------------|
| M16           | AT13/M16/A  | 3/8        | AT13/038/A  |
| M20           | AT13/M20/A  | -          | -           |
| M16           | AT16/M16/A  | 3/8        | AT16/038/A  |
| M20           | AT16/M20/A  | 1/2        | AT16/050/A  |
| M20           | AT21/M20/A  | 1/2        | AT21/050/A  |
| M25           | AT21/M25/A  | -          | -           |
| M25           | AT28/M25/A  | 3/4        | AT28/075/A  |
| M32           | AT28/M32/A  | -          | -           |
| M32           | AT34/M32/A  | 1          | AT34/100/A  |
| M40           | AT34/M40/A  | -          | -           |
| M40           | AT42/M40/A  | 1 1/4      | AT42/125/A  |
| M50           | AT42/M50/A  | -          | -           |
| M50           | AT48/M50/A  | 1 1/2      | AT48/150/A  |
| M50           | AT54/M50/A  | -          | -           |
| M63           | AT54/M63/A  | 2          | AT54/200/A  |

Add body & elastomer colour to part no. /BLY, /BLB, /GRY, or /GRB

IP Rating with  
appropriate fitting

IP66

IP67

IP68

IP69k

Temperature Range

For use with following conduit;  
Type PA, PI, CP, PR & PADL

Yes

Yes

Yes (4 bar 30 mins)

Yes

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C

Fitting Characteristics

Approvals Pending

Approvals  
in Progress



DIN5510 Approval (Deutsch Bahn)  
NF F 16-101/102  
Lloyds Register Type Approval  
London Underground Engineering Standard 2-01001-002  
UL 1696

For use with following conduit;  
Type PA, PI, CP, PR & PADL

Yes

Yes

Yes (4 bar 30 mins)

Yes

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C



DIN5510 Approval (Deutsch Bahn)  
NF F 16-101/102  
Lloyds Register Type Approval  
London Underground Engineering Standard 2-01001-002  
UL 1696

# Adaptalok ATS™ non-metallic system **NEW**

## ONE-PIECE PUSH-ON LIQUID TIGHT IP68/69k FITTINGS

### PRODUCT CHARACTERISTICS

#### Type

### TYPE C90 - ADAPTALOK ATS™ **NEW**

#### Description

#### 90° ELBOW FITTING - FIXED EXTERNAL THREAD

For insertion into knockouts using a locknut.

Locknut supplied with METRIC & NPT thread

#### Materials

Polyamide (Nylon) 66/TPE

Body Colour Black (BL) & Grey (GR) . Yellow (Y) Elastomer

#### Example



#### NOMINAL CONDUIT SIZE (mm)

13  
16  
16  
21/22  
28  
34  
42  
48  
54  
54

#### METRIC THREAD

#### PART NUMBER

#### PF THREAD

#### PART NUMBER

#### NPT THREAD

#### PART NUMBER

|     |              |       |                |
|-----|--------------|-------|----------------|
| M16 | AT13/M16/C90 | 3/8   | AT13/PF038/C90 |
| M16 | AT16/M16/C90 | 3/8   | AT16/PF038/C90 |
| M20 | AT16/M20/C90 | 1/2   | AT16/PF050/C90 |
| M20 | AT21/M20/C90 | 1/2   | AT21/PF050/C90 |
| M25 | AT28/M25/C90 | 3/4   | AT28/PF075/C90 |
| M32 | AT34/M32/C90 | 1     | AT34/PF100/C90 |
| M40 | AT42/M40/C90 | 1 1/4 | AT42/PF125/C90 |
| M50 | AT48/M50/C90 | 1 1/2 | AT48/PF150/C90 |
| M50 | AT54/M50/C90 | 1 1/2 | AT54/PF150/C90 |
| M63 | AT54/M63/C90 | 2     | AT54/PF200/C90 |

To order quote part no, body colour & elastomer colour- e.g. AT21/M20/C90/BLY

### TYPE C90 - ADAPTALOK ATS™ **NEW**

#### 90° ELBOW FITTING - FIXED EXTERNAL THREAD

For insertion into knockouts using a locknut.

Locknut supplied with METRIC & NPT thread

Polyamide (Nylon) 66/TPE

Body Colour Black (BL) & Grey (GR) . Blue (B) Elastomer



#### METRIC THREAD

#### PART NUMBER

#### NPT THREAD

#### PART NUMBER

|     |              |       |              |
|-----|--------------|-------|--------------|
| M16 | AT13/M16/C90 | 3/8   | AT13/038/C90 |
| M16 | AT16/M16/C90 | 3/8   | AT16/038/C90 |
| M20 | AT16/M20/C90 | 1/2   | AT16/050/C90 |
| M20 | AT21/M20/C90 | 1/2   | AT21/050/C90 |
| M25 | AT28/M25/C90 | 3/4   | AT28/075/C90 |
| M32 | AT34/M32/C90 | 1     | AT34/100/C90 |
| M40 | AT42/M40/C90 | 1 1/4 | AT42/125/C90 |
| M50 | AT48/M50/C90 | 1 1/2 | AT48/150/C90 |
| M50 | AT54/M50/C90 | 1 1/2 | AT54/150/C90 |
| M63 | AT54/M63/C90 | 2     | AT54/200/C90 |

Add body & elastomer colour to part no. /BLY, /BLB, /GRY, or /GRB

#### IP Rating with appropriate fitting

IP66

IP67

IP68

IP69k

For use with following conduit;

Type PA, PI, CP, PR & PADL

Yes

Yes

Yes (4 bar 30 mins)

Yes

#### Temperature Range

Static Applications: -50 °C to +120 °C

Moving Applications: -45 °C to +120 °C

#### Fitting Characteristics

#### Approvals

#### Approvals in Progress



DIN5510 Approval (Deutsch Bahn)

NF F 16-101/102

Lloyds Register Type Approval

London Underground Engineering Standard 2-01001-002

UL 1696

For use with following conduit;

Type PA, PI, CP, PR & PADL

Yes

Yes

Yes (4 bar 30 mins)

Yes

Static Applications: -50 °C to +120 °C

Moving Applications: -45 °C to +120 °C



DIN5510 Approval (Deutsch Bahn)

NF F 16-101/102

Lloyds Register Type Approval

London Underground Engineering Standard 2-01001-002

UL 1696



## PRODUCT CHARACTERISTICS

Type

### TYPE 45 - ADAPTALOK ATS™ NEW

Description

45° ELBOW FITTING - FIXED EXTERNAL THREAD

For insertion into knockouts using a locknut.

Locknut supplied with METRIC & NPT thread

Materials

Polyamide (Nylon) 66/TPE

Body Colour Black (BL) & Grey (GR) . Yellow (Y) Elastomer

Example



NOMINAL CONDUIT  
SIZE (mm)

13  
16  
16  
21/22  
28  
34  
42  
48  
54

| METRIC THREAD | PART NUMBER | PF THREAD | PART NUMBER   | NPT THREAD | PART NUMBER |
|---------------|-------------|-----------|---------------|------------|-------------|
| M16           | AT13/M16/45 | 3/8       | AT13/PF038/45 | 3/8        | AT13/038/45 |
| M16           | AT16/M16/45 | 3/8       | AT16/PF038/45 | 3/8        | AT16/038/45 |
| M20           | AT16/M20/45 | 1/2       | AT16/PF050/45 | 1/2        | AT16/050/45 |
| M20           | AT21/M20/45 | 1/2       | AT21/PF050/45 | 1/2        | AT21/050/45 |
| M25           | AT28/M25/45 | 3/4       | AT28/PF075/45 | 3/4        | AT28/075/45 |
| M32           | AT34/M32/45 | 1         | AT34/PF100/45 | 1          | AT34/100/45 |
| M40           | AT42/M40/45 | 1 1/4     | AT42/PF125/45 | 1 1/4      | AT42/125/45 |
| M50           | AT48/M50/45 | 1 1/2     | AT48/PF150/45 | 1 1/2      | AT48/150/45 |
| M50           | AT54/M50/45 | -         | -             | -          | -           |

To order quote part no, body colour & elastomer colour- e.g. AT54/M63/45/BLB

### TYPE 45 - ADAPTALOK ATS™ NEW

45° ELBOW FITTING - FIXED EXTERNAL THREAD

For insertion into knockouts using a locknut.

Locknut supplied with METRIC & NPT thread

Polyamide (Nylon) 66/TPE

Body Colour Black (BL) & Grey (GR) . Blue (B) Elastomer



| METRIC THREAD | PART NUMBER | NPT THREAD | PART NUMBER |
|---------------|-------------|------------|-------------|
| M16           | AT13/M16/45 | 3/8        | AT13/038/45 |
| M16           | AT16/M16/45 | 3/8        | AT16/038/45 |
| M20           | AT16/M20/45 | 1/2        | AT16/050/45 |
| M20           | AT21/M20/45 | 1/2        | AT21/050/45 |
| M25           | AT28/M25/45 | 3/4        | AT28/075/45 |
| M32           | AT34/M32/45 | 1          | AT34/100/45 |
| M40           | AT42/M40/45 | 1 1/4      | AT42/125/45 |
| M50           | AT48/M50/45 | 1 1/2      | AT48/150/45 |
| M50           | AT54/M50/45 | -          | -           |

Add body & elastomer colour to part no. /BLY, /BLB, /GRY, or /GRB

IP Rating with  
appropriate fitting

IP66

IP67

IP68

IP69k

Temperature Range

Fitting Characteristics

For use with following conduit;  
Type PA, PI, CP, PR & PADL

Yes

Yes

Yes (4 bar 30 mins)

Yes

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C



DIN5510 Approval (Deutsch Bahn)

NF F 16-101/102

Lloyds Register Type Approval

London Underground Engineering Standard 2-01001-002

UL 1696

For use with following conduit;  
Type PA, PI, CP, PR & PADL

Yes

Yes

Yes (4 bar 30 mins)

Yes

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C



DIN5510 Approval (Deutsch Bahn)

NF F 16-101/102

Lloyds Register Type Approval

London Underground Engineering Standard 2-01001-002

UL 1696

# Adaptalok ATS™ non-metallic system **NEW**

## ONE-PIECE PUSH-ON LIQUID TIGHT IP68/69k FITTINGS WITH SWIVEL BRASS THREADS

### PRODUCT CHARACTERISTICS

#### Type

### TYPE SA - ADAPTALOK ATS™ **NEW**

#### Description

**STRAIGHT FITTING - SWIVEL EXTERNAL MALE THREAD**  
For insertion into threaded entries & knockouts.

#### Materials

Polyamide (Nylon) 66. Nickel plated brass thread/TPE  
Body Colour Black (BL) & Grey (GR) .  
Yellow (Y) & Blue (B) Elastomer

#### Example



#### NOMINAL CONDUIT SIZE (mm)

13  
16  
21/22  
28  
34  
42  
48  
54  
54

#### METRIC THREAD

#### PART NUMBER

M16 AT13/M16/SA  
M16 AT16/M16/SA  
M20 AT21/M20/SA  
M25 AT28/M25/SA  
M32 AT34/M32/SA  
M40 AT42/M40/SA  
M50 AT48/M50/SA  
M50 AT54/M50/SA  
M63 AT54/M63/SA

#### NPT THREAD

#### PART NUMBER

3/8 AT13/038/SA  
3/8 AT16/038/SA  
1/2 AT21/050/SA  
3/4 AT28/075/SA  
1 AT34/100/SA  
1 1/4 AT42/125/SA  
1 1/2 AT48/150/SA  
- -  
2 AT54/200/SA

To order quote part no, body colour & elastomer colour- e.g. AT16/M16/SA/BLY

### TYPE CS90 - ADAPTALOK ATS™ **NEW**

**90° ELBOW FITTING - SWIVEL EXTERNAL MALE THREAD**  
**THREAD**

For insertion into threaded entries & knockouts.

Polyamide (Nylon) 66. Nickel plated brass thread/TPE  
Body Colour Black (BL) & Grey (GR) .  
Yellow (Y) & Blue (B) Elastomer



#### METRIC THREAD

#### PART NUMBER

M16 AT13/M16/CS90  
M16 AT16/M16/CS90  
M20 AT21/M20/CS90  
M25 AT28/M25/CS90  
M32 AT34/M32/CS90  
M40 AT42/M40/CS90  
M50 AT48/M50/CS90  
M50 AT54/M50/CS90  
M63 AT54/M63/CS90

#### NPT THREAD

#### PART NUMBER

3/8 AT13/038/CS90  
3/8 AT16/038/CS90  
1/2 AT21/050/CS90  
3/4 AT28/075/CS90  
1 AT34/100/CS90  
1 1/4 AT42/125/CS90  
1 1/2 AT48/150/CS90  
- -  
2 AT54/200/CS90

Add body & elastomer colour to part no. /BLY, /BLB, /GRY, or /GRB

**NOTE: Special Big Bore & PF/GAS metal threads are available as made to order. Contact us for details**

#### IP Rating with appropriate fitting

IP66

IP67

IP68

IP69k

#### Temperature Range

For use with following conduit;  
Type PA, PI, CP, PR & PADL

Yes

Yes

Yes (4 bar 30 mins)

Yes

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C

#### Fitting Characteristics



#### Approvals

#### Approvals in Progress

DIN5510 Approval (Deutsch Bahn)  
NF F 16-101/102  
Lloyds Register Type Approval  
London Underground Engineering Standard 2-01001-002  
UL 1696

For use with following conduit;  
Type PA, PI, CP, PR & PADL

Yes

Yes

Yes (4 bar 30 mins)

Yes

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C



DIN5510 Approval (Deutsch Bahn)  
NF F 16-101/102  
Lloyds Register Type Approval  
London Underground Engineering Standard 2-01001-002  
UL 1696



## PRODUCT CHARACTERISTICS

Type

### TYPE S45 - ADAPTALOK ATS™ NEW

Description

**45° ELBOW BODY - SWIVEL EXTERNAL MALE THREAD**  
For insertion into threaded entries & knockouts.

Materials

Polyamide (Nylon) 66. Nickel plated brass thread/TPE  
Body Colour Black (BL) & Grey (GR) .  
Yellow (Y) & Blue (B) Elastomer

Example



NOMINAL CONDUIT  
SIZE (mm)

13  
16  
21/22  
28  
34  
42  
48  
54  
54

METRIC THREAD

PART NUMBER

M16 AT13/M16/S45  
M16 AT16/M16/S45  
M20 AT21/M20/S45  
M25 AT28/M25/S45  
M32 AT34/M32/S45  
M40 AT42/M40/S45  
M50 AT48/M50/S45  
M50 AT54/M50/S45  
M63 AT54/M63/S45

NPT THREAD

PART NUMBER

3/8 AT13/038/S45  
3/8 AT16/038/S45  
1/2 AT21/050/S45  
3/4 AT28/075/S45  
1 AT34/100/S45  
1 1/4 AT42/125/S45  
1 1/2 AT48/150/S45  
- -  
2 AT54/200/S45

### TYPE SFA - ADAPTALOK ATS™ NEW

**STRAIGHT BODY - SWIVEL INTERNAL FEMALE THREAD**  
For attachment to external threads & other fittings.

Polyamide (Nylon) 66. Nickel plated brass thread/TPE  
Body Colour Black (BL) & Grey (GR) .  
Yellow (Y) & Blue (B) Elastomer



METRIC THREAD

PART NUMBER

M16 AT13/M16/SFA  
M16 AT16/M16/SFA  
M20 AT21/M20/SFA  
M25 AT28/M25/SFA  
M32 AT34/M32/SFA  
M40 AT42/M40/SFA  
M50 AT48/M50/SFA  
M50 AT54/M50/SFA  
M63 AT54/M63/SFA

NPT THREAD

PART NUMBER

3/8 AT13/038/SFA  
3/8 AT16/038/SFA  
1/2 AT21/050/SFA  
3/4 AT28/075/SFA  
1 AT34/100/SFA  
1 1/4 AT42/125/SFA  
1 1/2 AT48/150/SFA  
- -  
2 AT54/200/SFA

Add body & elastomer colour to part no. /BLY, /BLB, /GRY, or /GRB

**NOTE: Special Big Bore & PF/GAS metal threads are available as made to order. Contact us for details**

IP Rating with  
appropriate fitting

IP66

IP67

IP68

IP69K

For use with all conduits in this catalogue

Yes

Yes

Yes (4 bar 30 mins)

Yes

Temperature Range

Static Applications: -50 °C to +120 °C

Moving Applications: -45 °C to +120 °C

Fitting Characteristics



DIN5510 Approval (Deutsch Bahn)

NF F 16-101/102

Lloyds Register Type Approval

London Underground Engineering Standard 2-01001-002

UL 1696

Approvals

Approvals  
in Progress

For use with all conduits in this catalogue

Yes

Yes

Yes (4 bar 30 mins)

Yes

Static Applications: -50 °C to +120 °C

Moving Applications: -45 °C to +120 °C



DIN5510 Approval (Deutsch Bahn)

NF F 16-101/102

Lloyds Register Type Approval

London Underground Engineering Standard 2-01001-002

UL 1696

# Adaptalok ATS™ non-metallic system **NEW**

## ONE-PIECE PUSH-ON LIQUID TIGHT IP68/69k FITTINGS WITH SWIVEL BRASS THREADS

### PRODUCT CHARACTERISTICS

#### Type

#### TYPE CSF90 - ADAPTALOK ATS™ **NEW**

#### Description

90° ELBOW FITTING - SWIVEL INTERNAL FEMALE THREAD  
For attachment to external threads & other fittings.

#### Materials

Polyamide (Nylon) 66. Nickel plated brass thread/TPE  
Body Colour Black (BL) & Grey (GR) .  
Yellow (Y) & Blue (B) Elastomer

#### Example



#### NOMINAL CONDUIT SIZE (mm)

13  
16  
21/22  
28  
34  
42  
48  
54  
54

#### METRIC THREAD

#### PART NUMBER

M16 AT13/M16/CSF90  
M16 AT16/M16/CSF90  
M20 AT21/M20/CSF90  
M25 AT28/M25/CSF90  
M32 AT34/M32/CSF90  
M40 AT42/M40/CSF90  
M50 AT48/M50/CSF90  
M50 AT54/M50/CSF90  
M63 AT54/M63/CSF90

#### NPT THREAD

#### PART NUMBER

3/8 AT13/038/CSF90  
3/8 AT16/038/CSF90  
1/2 AT21/050/CSF90  
3/4 AT28/075/CSF90  
1 AT34/100/CSF90  
1 1/4 AT42/125/CSF90  
1 1/2 AT48/150/CSF90  
- -  
2 AT54/200/CSF90

To order quote part no, body colour & elastomer colour- e.g. AT16/M16/SA/BLY

#### TYPE SF45 - ADAPTALOK ATS™ **NEW**

45° ELBOW BODY - SWIVEL INTERNAL FEMALE THREAD  
For attachment to external threads & other fittings.

Polyamide (Nylon) 66. Nickel plated brass thread/TPE  
Body Colour Black (BL) & Grey (GR) .  
Yellow (Y) & Blue (B) Elastomer



#### METRIC THREAD

#### PART NUMBER

M16 AT13/M16/SF45  
M16 AT16/M16/SF45  
M20 AT21/M20/SF45  
M25 AT28/M25/SF45  
M32 AT34/M32/SF45  
M40 AT42/M40/SF45  
M50 AT48/M50/SF45  
M50 AT54/M50/SF45  
M63 AT54/M63/SF45

#### NPT THREAD

#### PART NUMBER

3/8 AT13/038/SF45  
3/8 AT16/038/SF45  
1/2 AT21/050/SF45  
3/4 AT28/075/SF45  
1 AT34/100/SF45  
1 1/4 AT42/125/SF45  
1 1/2 AT48/150/SF45  
- -  
2 AT54/200/SF45

Add body & elastomer colour to part no. /BLY, /BLB, /GRY, or /GRB

**NOTE: Special Big Bore & PF/GAS metal threads are available as made to order. Contact us for details**

#### IP Rating with appropriate fitting

IP66

IP67

IP68

IP69k

#### Temperature Range

For use with following conduit;  
Type PA, PI, CP, PR & PADL

Yes

Yes

Yes (4 bar 30 mins)

Yes

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C

#### Fitting Characteristics



#### Approvals

#### Approvals in Progress

DIN5510 Approval (Deutsch Bahn)  
NF F 16-101/102  
Lloyds Register Type Approval  
London Underground Engineering Standard 2-01001-002  
UL 1696

For use with following conduit;  
Type PA, PI, CP, PR & PADL

Yes

Yes

Yes (4 bar 30 mins)

Yes

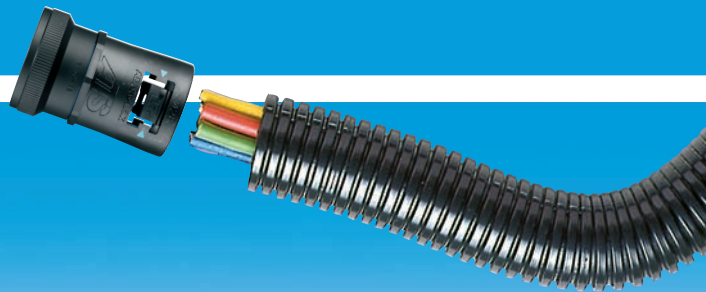
Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C



DIN5510 Approval (Deutsch Bahn)  
NF F 16-101/102  
Lloyds Register Type Approval  
London Underground Engineering Standard 2-01001-002  
UL 1696

# Adaptalok ATS™ non-metallic system **NEW**

## UNEF CIRCULAR CONNECTOR FITTINGS (MIL C 5015)



### PRODUCT CHARACTERISTICS

Type

#### TYPE SFA - ADAPTALOK ATS™ **NEW**

Description

**STRAIGHT BODY - SWIVEL INTERNAL THREAD**  
For coupling to UNEF circular connectors.

Materials

Polyamide (Nylon) 66 & Aluminium/TPE  
Body Colour Black (BL) only.  
Yellow (Y) & Blue (B) Elastomer

Example



NOMINAL CONDUIT  
SIZE (mm)

CONNECTOR  
UNE F THREAD

PART NUMBER

|       |             |                |
|-------|-------------|----------------|
| 13    | 5/8" - 24   | AT13/U063/SFA/ |
| 13    | 3/4" - 20   | AT13/U075/SFA/ |
| 13    | 1/2" - 20   | AT13/U088/SFA/ |
| 16    | 5/8" - 24   | AT16/U063/SFA/ |
| 16    | 3/4" - 20   | AT16/U075/SFA/ |
| 16    | 1/2" - 20   | AT16/U088/SFA/ |
| 16    | 5/8" - 24   | AT16/U094/SFA/ |
| 16    | 1" - 20     | AT16/U100/SFA/ |
| 16    | 1 1/8" - 18 | AT16/U119/SFA/ |
| 16    | 1 1/4" - 18 | AT16/U131/SFA/ |
| 21/22 | 1 1/2" - 20 | AT21/U075/SFA/ |
| 21/22 | 1 3/4" - 20 | AT21/U088/SFA/ |
| 21/22 | 2" - 20     | AT21/U094/SFA/ |
| 21/22 | 2 1/4" - 18 | AT21/U100/SFA/ |
| 21/22 | 2 1/2" - 18 | AT21/U119/SFA/ |
| 21/22 | 2 3/4" - 18 | AT21/U131/SFA/ |
| 21/22 | 3" - 18     | AT21/U138/SFA/ |

NOMINAL CONDUIT  
SIZE (mm)

CONNECTOR  
UNE F THREAD

PART NUMBER

|       |             |                |
|-------|-------------|----------------|
| 21/22 | 1 1/8" - 18 | AT21/U144/SFA/ |
| 21/22 | 1 1/4" - 18 | AT21/U175/SFA/ |
| 28    | 1 1/2" - 20 | AT28/U088/SFA/ |
| 28    | 1 3/4" - 20 | AT28/U094/SFA/ |
| 28    | 2" - 20     | AT28/U100/SFA/ |
| 28    | 2 1/8" - 18 | AT28/U119/SFA/ |
| 28    | 2 1/4" - 18 | AT28/U138/SFA/ |
| 28    | 2 1/2" - 18 | AT28/U144/SFA/ |
| 28    | 2 3/4" - 18 | AT28/U175/SFA/ |
| 28    | 3" - 18     | AT28/U200/SFA/ |
| 28    | 3 1/4" - 18 | AT28/U225/SFA/ |
| 34    | 1" - 20     | AT34/U100/SFA/ |
| 34    | 1 1/8" - 18 | AT34/U119/SFA/ |
| 34    | 1 1/4" - 18 | AT34/U144/SFA/ |
| 34    | 1 1/2" - 18 | AT34/U175/SFA/ |
| 34    | 2" - 18     | AT34/U200/SFA/ |
| 42    | 2 1/4" - 18 | AT42/U175/SFA/ |
| 42    | 2 3/4" - 18 | AT42/U200/SFA/ |

#### TYPE CSF90 - ADAPTALOK ATS™ **NEW**

**90° ELBOW BODY - SWIVEL INTERNAL THREAD**  
For coupling to UNEF circular connectors.

Polyamide (Nylon) 66 & Aluminium/TPE  
Body Colour Black (BL) only.  
Yellow (Y) & Blue (B) Elastomer



NOMINAL CONDUIT  
SIZE (mm)

CONNECTOR  
UNE F THREAD

PART NUMBER

|       |             |                  |
|-------|-------------|------------------|
| 13    | 5/8" - 24   | AT13/U063/CSF90/ |
| 13    | 3/4" - 20   | AT13/U075/CSF90/ |
| 13    | 1/2" - 20   | AT13/U088/CSF90/ |
| 16    | 5/8" - 24   | AT16/U063/CSF90/ |
| 16    | 3/4" - 20   | AT16/U075/CSF90/ |
| 16    | 1/2" - 20   | AT16/U088/CSF90/ |
| 16    | 5/8" - 24   | AT16/U094/CSF90/ |
| 16    | 1" - 20     | AT16/U100/CSF90/ |
| 16    | 1 1/8" - 18 | AT16/U119/CSF90/ |
| 16    | 1 1/4" - 18 | AT16/U131/CSF90/ |
| 21/22 | 1 1/2" - 20 | AT21/U075/CSF90/ |
| 21/22 | 1 3/4" - 20 | AT21/U088/CSF90/ |
| 21/22 | 2" - 20     | AT21/U094/CSF90/ |
| 21/22 | 2 1/4" - 18 | AT21/U100/CSF90/ |
| 21/22 | 2 1/2" - 18 | AT21/U119/CSF90/ |
| 21/22 | 2 3/4" - 18 | AT21/U131/CSF90/ |
| 21/22 | 3" - 18     | AT21/U138/CSF90/ |

NOMINAL CONDUIT  
SIZE (mm)

CONNECTOR  
UNE F THREAD

PART NUMBER

|       |             |                  |
|-------|-------------|------------------|
| 21/22 | 1 1/8" - 18 | AT21/U144/CSF90/ |
| 21/22 | 1 1/4" - 18 | AT21/U175/CSF90/ |
| 28    | 1 1/2" - 20 | AT28/U088/CSF90/ |
| 28    | 1 3/4" - 20 | AT28/U094/CSF90/ |
| 28    | 2" - 20     | AT28/U100/CSF90/ |
| 28    | 2 1/8" - 18 | AT28/U119/CSF90/ |
| 28    | 2 1/4" - 18 | AT28/U138/CSF90/ |
| 28    | 2 1/2" - 18 | AT28/U144/CSF90/ |
| 28    | 2 3/4" - 18 | AT28/U175/CSF90/ |
| 28    | 3" - 18     | AT28/U200/CSF90/ |
| 28    | 3 1/4" - 18 | AT28/U225/CSF90/ |
| 34    | 1" - 20     | AT34/U100/CSF90/ |
| 34    | 1 1/8" - 18 | AT34/U119/CSF90/ |
| 34    | 1 1/4" - 18 | AT34/U144/CSF90/ |
| 34    | 1 1/2" - 18 | AT34/U175/CSF90/ |
| 34    | 2" - 18     | AT34/U200/CSF90/ |
| 42    | 2 1/4" - 18 | AT42/U175/CSF90/ |
| 42    | 2 3/4" - 18 | AT42/U200/CSF90/ |

### Add body & elastomer colour to part no. /BLY or /BLB

IP Rating with  
appropriate fitting

IP66

IP67

IP68

IP69k

Temperature Range

For use with following conduit;  
Type PA, PI, CP, PR & PADL

Yes

Yes

Yes (4 bar 30 mins)

Yes

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C

Fitting Characteristics



Approvals

Approvals  
in Progress

DIN5510 Approval (Deutsch Bahn)  
NF F 16-101/102  
Lloyds Register Type Approval  
London Underground Engineering Standard 2-01001-002  
UL 1696

For use with following conduit;  
Type PA, PI, CP, PR & PADL

Yes

Yes

Yes (4 bar 30 mins)

Yes

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C



DIN5510 Approval (Deutsch Bahn)  
NF F 16-101/102  
Lloyds Register Type Approval  
London Underground Engineering Standard 2-01001-002  
UL 1696

# Adaptalok ATS™ non-metallic system **NEW**

## UNEF CIRCULAR CONNECTOR FITTINGS (MIL C 5015)

### PRODUCT CHARACTERISTICS

Type

#### TYPE SF45 - ADAPTALOK ATS™ **NEW**

Description

**45° ELBOW BODY - SWIVEL INTERNAL THREAD**  
For coupling to UNEF circular connectors.

Materials

Polyamide (Nylon) 66 & Aluminium/TPE  
Body Colour Black (BL) only.  
Yellow (Y) & Blue (B) Elastomer

Example



NOMINAL CONDUIT  
SIZE (mm)

CONNECTOR  
UNEf THREAD

PART NUMBER

13  
13  
13  
16  
16  
16  
16  
16  
16  
16  
16  
16  
16  
21/22  
21/22  
21/22  
21/22  
21/22  
21/22  
21/22  
21/22

1/8" - 24  
3/8" - 20  
1/2" - 20  
5/8" - 24  
3/4" - 20  
15/16" - 20  
1" - 20  
1 1/8" - 18  
1 1/4" - 18  
1 1/2" - 20  
1 3/4" - 20  
1 7/8" - 18  
2" - 18  
2 1/4" - 18  
2 1/2" - 18  
2 3/4" - 18  
3" - 18  
3 1/2" - 18  
4" - 18  
4 1/2" - 18

AT13/U063/SF45/  
AT13/U075/SF45/  
AT13/U088/SF45/  
AT16/U063/SF45/  
AT16/U075/SF45/  
AT16/U081/SF45/  
AT16/U088/SF45/  
AT16/U094/SF45/  
AT16/U100/SF45/  
AT16/U119/SF45/  
AT16/U131/SF45/  
AT21/U075/SF45/  
AT21/U088/SF45/  
AT21/U094/SF45/  
AT21/U100/SF45/  
AT21/U113/SF45/  
AT21/U119/SF45/  
AT21/U131/SF45/  
AT21/U138/SF45/

NOMINAL CONDUIT  
SIZE (mm)

CONNECTOR  
UNEf THREAD

PART NUMBER

21/22  
21/22  
28  
28  
28  
28  
28  
28  
28  
28  
28  
28  
28  
34  
34  
34  
34  
34  
34  
42  
42

1 1/8" - 18  
1 1/4" - 18  
1 1/2" - 20  
1 3/4" - 20  
1 7/8" - 18  
2" - 18  
2 1/4" - 18  
2 1/2" - 18  
2 3/4" - 18  
3" - 18  
3 1/2" - 18  
3 3/4" - 18  
4" - 18  
4 1/2" - 18  
4 3/4" - 18  
5" - 18  
5 1/2" - 18  
6" - 18  
6 1/2" - 18  
6 3/4" - 18  
7" - 18

AT21/U144/SF45/  
AT21/U175/SF45/  
AT28/U088/SF45/  
AT28/U094/SF45/  
AT28/U100/SF45/  
AT28/U119/SF45/  
AT28/U138/SF45/  
AT28/U144/SF45/  
AT28/U175/SF45/  
AT28/U200/SF45/  
AT28/U225/SF45/  
AT34/U100/SF45/  
AT34/U119/SF45/  
AT34/U144/SF45/  
AT34/U175/SF45/  
AT34/U200/SF45/  
AT42/U175/SF45/  
AT42/U200/SF45/

To order quote part no, body colour & elastomer colour- e.g. AT13/U063/A/BLY

#### SWIVEL COUPLER **NEW**

**STRAIGHT PA66 BODY - SWIVEL COUPLER**  
For coupling to corrugated flexible conduit.

Polyamide (Nylon) 66/TPE  
Body Colour Black (BL) & Grey (GR).  
Yellow (Y) & Blue (B) Elastomer



PART NUMBER

AT13/A/U  
AT16/A/U  
AT21/A/U  
AT28/A/U  
AT34/A/U  
AT42/A/U  
AT48/A/U  
AT54/A/U

Add body & elastomer colour to part no. /BLY or /BLB

Add body & elastomer colour to part no. /BLY, /BLB, /GRY, or /GRB

IP Rating with  
appropriate fitting

IP66

IP67

IP68

IP69K

Temperature Range

For use with following conduit;  
Type PA, PI, CP, PR & PADL

Yes

Yes

Yes (4 bar 30 mins)

Yes

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C



Approvals



DIN5510 Approval (Deutsch Bahn)  
NF F 16-101/102

Approvals  
in Progress

Lloyds Register Type Approval  
London Underground Engineering Standard 2-01001-002  
UL 1696

For use with following conduit;  
Type PA, PI, CP, PR & PADL

Yes

Yes

Yes (4 bar 30 mins)

Yes

Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C

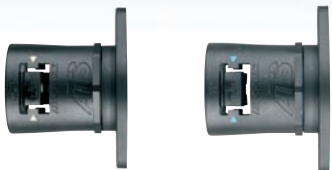


DIN5510 Approval (Deutsch Bahn)  
NF F 16-101/102

Lloyds Register Type Approval  
London Underground Engineering Standard 2-01001-002  
UL 1696



## PRODUCT CHARACTERISTICS

| Type                         | TYPE FL/A - ADAPTALOK <b>NEW</b>                                                                   | TYPE FL/C90 - ADAPTALOK <b>NEW</b>                                                                 | TYPE FL/45 - ADAPTALOK <b>NEW</b>                                                                  |
|------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Description                  | STRAIGHT PANEL MOUNTING SWIVEL FLANGE<br>with integral face seal.                                  | 90° ELBOW BODY - PANEL MOUNT FLANGE<br>For panel mounting via 2 hole fixing & integral face seal.  | 45° PANEL MOUNTING SWIVEL FLANGE<br>with integral face seal.                                       |
| Materials                    | Polyamide (Nylon) 66/TPE<br>Body Colour Black (BL) & Grey (GR).<br>Yellow (Y) & Blue (B) Elastomer | Polyamide (Nylon) 66/TPE<br>Body Colour Black (BL) & Grey (GR).<br>Yellow (Y) & Blue (B) Elastomer | Polyamide (Nylon) 66/TPE<br>Body Colour Black (BL) & Grey (GR).<br>Yellow (Y) & Blue (B) Elastomer |
| Example                      |                   |                  |                 |
| NOMINAL CONDUIT<br>SIZE (mm) | PART NUMBER                                                                                        | PART NUMBER                                                                                        | PART NUMBER                                                                                        |
| 13                           | AT13/FL/A                                                                                          | AT13/FL/C90                                                                                        | AT13/FL/45                                                                                         |
| 16                           | AT16/FL/A                                                                                          | AT16/FL/C90                                                                                        | AT16/FL/45                                                                                         |
| 21/22                        | AT21/FL/A                                                                                          | AT21/FL/C90                                                                                        | AT21/FL/45                                                                                         |
| 28                           | AT28/FL/A                                                                                          | AT28/FL/C90                                                                                        | AT28/FL/45                                                                                         |
| 34                           | -                                                                                                  | -                                                                                                  | -                                                                                                  |
| 42                           | -                                                                                                  | -                                                                                                  | -                                                                                                  |
| 48                           | -                                                                                                  | -                                                                                                  | -                                                                                                  |
| 54                           | AT54/FL/A                                                                                          | AT54/FL/C90                                                                                        | AT54/FL/45                                                                                         |

## Add body & elastomer colour to part no. /BLY, /BLB, /GRY, or /GRB

|                                       |                                                                                                                                                                         |                                                                                                                                                                         |                                                                                                                                                                             |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IP Rating with<br>appropriate fitting | For use with following conduit;<br>Type PA, PI, CP, PR & PADL                                                                                                           | For use with following conduit;<br>Type PA, PI, CP, PR & PADL                                                                                                           | For use with following conduit;<br>Type PA, PI, CP, PR & PADL                                                                                                               |
| IP66                                  | Yes                                                                                                                                                                     | Yes                                                                                                                                                                     | Yes                                                                                                                                                                         |
| IP67                                  | Yes                                                                                                                                                                     | Yes                                                                                                                                                                     | Yes                                                                                                                                                                         |
| IP68                                  | Yes (4 bar 30 mins)                                                                                                                                                     | Yes (4 bar 30 mins)                                                                                                                                                     | Yes (4 bar 30 mins)                                                                                                                                                         |
| IP69k                                 | Yes                                                                                                                                                                     | Yes                                                                                                                                                                     | Yes                                                                                                                                                                         |
| Temperature Range                     | Static Applications: -50 °C to +120 °C<br>Moving Applications: -45 °C to +120 °C                                                                                        | Static Applications: -50 °C to +120 °C<br>Moving Applications: -45 °C to +120 °C                                                                                        | Static Applications: -50 °C to +120 °C<br>Moving Applications: -45 °C to +120 °C                                                                                            |
| Fitting Characteristics               |                                                                                      |                                                                                      |                                                                                        |
| Approvals                             |   |   |   |
| Approvals<br>in Progress              | DIN5510 Approval (Deutsche Bahn)<br>NF F 16-101/102<br>Lloyds Register Type Approval<br>London Underground Engineering Standard 2-01001-002<br>UL 1696                  | DIN5510 Approval (Deutsche Bahn)<br>NF F 16-101/102<br>Lloyds Register Type Approval<br>London Underground Engineering Standard 2-01001-002<br>UL 1696                  | DIN5510 Approval (Deutsche Bahn)<br>NF F 16-101/102<br>Lloyds Register Type Approval<br>London Underground Engineering Standard 2-01001-002<br>UL 1696                      |