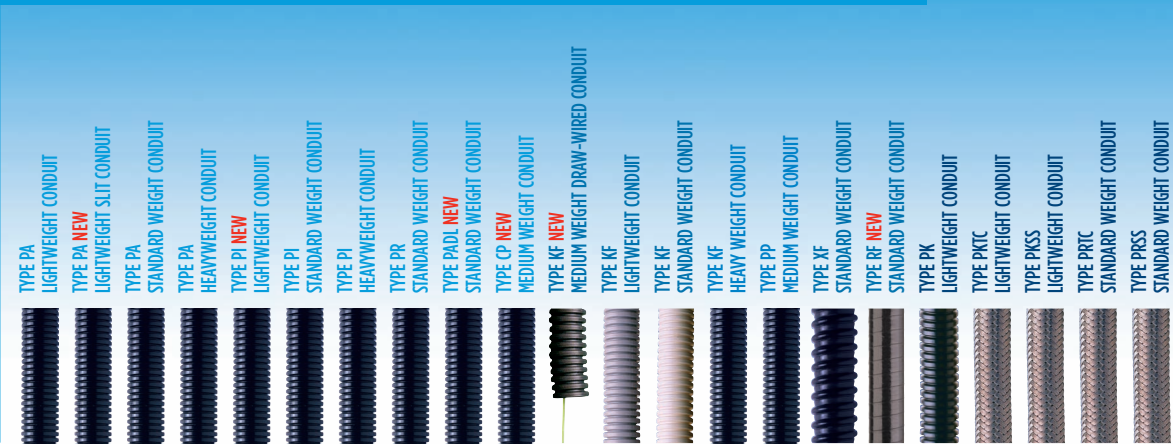


# Non-metallic systems

## Quick Selection Guide

### Quick Selection Guide - Non-metallic systems



| 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  | IP40  | IP40  | IP40  | IP40  | IP40  | IP40  | IP40  | IP40  | IP40  | IP40  | IP40  | IP40  | IP40  | IP40  | IP40            | IP40            | IP40  | IP40          | IP40            | IP40          | IP40            | IP40  |
|  | IP54  | IP54  | IP54  | IP54  | IP54  | IP54  | IP54  | IP54  | IP54  | IP54  | IP54  | IP54  | IP54  | IP54  | IP54  | IP54            | IP54            | IP54  | IP54          | IP54            | IP54          | IP54            | IP54  |
|  | IP65  | IP65  | IP65  | IP65  | IP65  | IP65  | IP65  | IP65  | IP65  | IP65  | IP65  | IP65  | IP65  | IP65  | IP65  | IP65            | IP65            | IP65  | IP65          | IP65            | IP65          | IP65            | IP65  |
|  | IP66  | IP66  | IP66  | IP66  | IP66  | IP66  | IP66  | IP66  | IP66  | IP66  | IP66  | IP66  | IP66  | IP66  | IP66  | IP66            | IP66            | IP66  | IP66          | IP66            | IP66          | IP66            | IP66  |
|  | IP67  | IP67  | IP67  | IP67  | IP67  | IP67  | IP67  | IP67  | IP67  | IP67  | IP67  | IP67  | IP67  | IP67  | IP67  | IP67            | IP67            | IP67  | IP67          | IP67            | IP67          | IP67            | IP67  |
|  | IP68  | IP68  | IP68  | IP68  | IP68  | IP68  | IP68  | IP68  | IP68  | IP68  | IP68  | IP68  | IP68  | IP68  | IP68  | IP68            | IP68            | IP68  | IP68          | IP68            | IP68          | IP68            | IP68  |
|  | IP69K | IP69K | IP69K | IP69K | IP69K | IP69K | IP69K | IP69K | IP69K | IP69K | IP69K | IP69K | IP69K | IP69K | IP69K | IP69K           | IP69K           | IP69K | IP69K         | IP69K           | IP69K         | IP69K           | IP69K |

| Static Temp - Min Max    | -40 °C +120 °C         | -40 °C +120 °C         | -40 °C +120 °C | -40 °C +120 °C | -40 °C +120 °C | -50 °C +110 °C | -50 °C +110 °C | -40 °C +120 °C | -40 °C +120 °C | -45 °C +135 °C | -5 °C +60 °C           | -5 °C +60 °C           | -5 °C +60 °C           | -5 °C +60 °C           | -20 °C +90 °C | -5 °C +60 °C | -20 °C +60 °C | -60 °C +260 °C | -60 °C +260 °C | -60 °C +260 °C | -40 °C +120 °C | -40 °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                | UL, CE, DB             | UL, CE, DB             | UL, CE, DB     | UL, CE, DB     | UL, CE, DB     | UL, CE, DB     | UL, CE, DB     | UL, CE, DB     | UL, CE, DB     | UL, CE, DB, NF | CE                     | UL, CE                 | UL, CE                 | UL, CE                 | CE            | CE           | CE            | UL, CE         | UL, CE         | UL, CE         | UL, CE, DB     | UL, CE, DB     |            |
| Key Application          | Commercial Contracting | Commercial Contracting | Machine Tools  | Machine Tools  | Machine Tools  | Machine Tools  | Machine Tools  | Machine Tools  | Machine Tools  | Machine Tools  | Commercial Contracting | Commercial Contracting | Commercial Contracting | Commercial Contracting | Automation    | Automation   | Automation    | Automation     | Automation     | Automation     | Automation     | Automation     | Automation |
| Page Number              | 14                     | 14                     | 14             | 14             | 15             | 15             | 15             | 16             | 16             | 16             | 37                     | 37                     | 37                     | 37                     | 39            | 40           | 40            | 46             | 46             | 46             | 47             | 47             |            |



# 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

### System approvals available:



### Adaptalok ATS™

The ultimate & unique fitting  
from Adaptaflex - See page 24



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



### Ranges include:



# 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

#### TYPE PA LIGHTWEIGHT CONDUIT

#### TYPE PA NEW LIGHTWEIGHT SLIT CONDUIT

#### TYPE PA STANDARD WEIGHT CONDUIT

#### TYPE PA HEAVYWEIGHT CONDUIT

Description

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

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

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

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

Example



| 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             |

| 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) (Black) | REEL LENGTH (m) (Grey) |
|-------------|----------------------|--------------------------|-------------------------|------------------------|
| 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



Machinery (Low mechanical protection)  
Buildings (No fire risk)

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



Retrofit Protection

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



Machinery  
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



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 SIZE (mm) | OUTSIDE DIAMETER (mm) | NW CONDUIT SIZE (mm) | CONDUIT PITCH       |
|---------------------------|-----------------------|----------------------|---------------------|
|                           |                       |                      | 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 DIAMETER (mm) | MINIMUM BEND 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 DIAMETER (mm) | MINIMUM BEND 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 DIAMETER (mm) | MINIMUM BEND 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, 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: -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, Adapting, Adaptaseal & Jumbo

Adapting & 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, 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: -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

#### 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 |
|---------------------------|-----------------------|----------------------|---------------|
| 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



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  
Description  
Materials  
Example

#### TYPE A - ADAPTALOK

##### STRAIGHT FITTING - FIXED EXTERNAL THREAD

For insertion into threaded entries & knockouts. 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 | 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 | -          | -           |

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

#### TYPE C90 - ADAPTALOK

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

For insertion into threaded entries 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 | -           |
| M20 | AL21/M20/C90  | PG13.5      | AL21/PG13/C90 | 1/2         | AL21/PF050/C90 | 1/2         | AL21/050/C90 | -           |
| M20 | AL21/M20/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 | -           |

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



# 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)

13  
16  
16  
17  
21  
21  
22  
28  
34  
42  
54  
54

| METRIC THREAD | PART NUMBER | PG THREAD | PART NUMBER  |
|---------------|-------------|-----------|--------------|
| M16           | AL13/M16/45 | PG9       | AL13/PG9/45  |
| M16           | AL16/M16/45 | PG11      | AL16/PG11/45 |
| M20           | AL16/M20/45 | PG13.5    | AL16/PG13/45 |
| -             | -           | -         | -            |
| M20           | AL21/M20/45 | PG13.5    | AL21/PG13/45 |
| -             | -           | PG16      | AL21/PG16/45 |
| -             | -           | -         | -            |
| M25           | AL28/M25/45 | PG21      | AL28/PG21/45 |
| M32           | AL34/M32/45 | PG29      | AL34/PG29/45 |
| M40           | AL42/M40/45 | PG36      | AL42/PG36/45 |
| M50           | AL54/M50/45 | PG48      | AL54/PG48/45 |
| 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

13X10X10  
-  
16X13X13  
-  
21X16X16  
-  
-  
28X21X21  
-  
-  
-  
-  
-

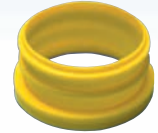
PART NUMBER

AL131010/Y  
-  
AL161313/Y  
-  
AL211616/Y  
-  
-  
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                      | <b>TYPE FL/A - ADAPTALOK</b>  | <b>TYPE FL/C90 - ADAPTALOK</b>   | <b>TYPE FL/45 - ADAPTALOK</b>  | <b>SWIVEL COUPLER</b>   |
|---------------------------|---|--|--|---|
| Description               | STRAIGHT PANEL MOUNTING SWIVEL FLANGE with integral face seal.                    | 90° ELBOW BODY - PANEL MOUNT FLANGE For panel mounting via 2 hole fixing & integral face seal.   | 45° PANEL MOUNTING SWIVEL FLANGE with integral face seal.                          | STRAIGHT PA66 BODY - SWIVEL COUPLER 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 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) .



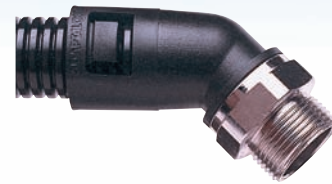
|     | METRIC THREAD  | PART NUMBER | PG THREAD       | PART NUMBER |
|-----|----------------|-------------|-----------------|-------------|
| M16 | AL13/M16/CS90/ | PG9         | AL13/PG9/CS90/  |             |
| M16 | AL16/M16/CS90/ | PG11        | AL16/PG11/CS90/ |             |
| M20 | AL21/M20/CS90/ | 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/ | -           | -               |             |

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

#### 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

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

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

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

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

Fitting Characteristics



Approvals





## 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/ | -         | -              |

### 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/ |             |
| -   | -               | -           | -                |             |

### 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/ |             |
| -   | -              | -           | -               |             |

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



# 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                        | 1/8" - 20             | AL28/U088/A/ |
| 16                        | 5/8" - 24             | AL16/U063/A/ | 28                        | 5/16" - 20            | AL28/U094/A/ |
| 16                        | 3/4" - 20             | AL16/U075/A/ | 28                        | 1" - 20               | AL28/U100/A/ |
| 16                        | 15/16" - 20           | AL16/U081/A/ | 28                        | 1 1/8" - 18           | AL28/U119/A/ |
| 16                        | 1 1/8" - 18           | AL16/U088/A/ | 28                        | 1 1/4" - 18           | AL28/U138/A/ |
| 16                        | 1 1/4" - 18           | AL16/U094/A/ | 28                        | 1 1/2" - 18           | AL28/U144/A/ |
| 16                        | 1 1/2" - 18           | AL16/U100/A/ | 28                        | 1 3/4" - 18           | AL28/U175/A/ |
| 16                        | 1 5/8" - 18           | AL16/U119/A/ | 28                        | 2" - 18               | AL28/U200/A/ |
| 16                        | 1 3/4" - 18           | AL16/U131/A/ | 28                        | 2 1/4" - 18           | AL28/U225/A/ |
| 21                        | 1 5/8" - 20           | AL21/U075/A/ | 34                        | 1" - 20               | AL34/U100/A/ |
| 21                        | 1 3/4" - 20           | AL21/U088/A/ | 34                        | 1 1/8" - 18           | AL34/U119/A/ |
| 21                        | 1 5/8" - 20           | AL21/U094/A/ | 34                        | 1 1/4" - 18           | AL34/U144/A/ |
| 21                        | 1" - 20               | AL21/U100/A/ | 34                        | 1 1/2" - 18           | AL34/U175/A/ |
| 21                        | 1 1/8" - 18           | AL21/U113/A/ | 34                        | 2" - 18               | AL34/U200/A/ |
| 21                        | 1 1/4" - 18           | AL21/U119/A/ | 42                        | 1 1/4" - 18           | AL42/U175/A/ |
| 21                        | 1 1/2" - 18           | AL21/U131/A/ | 42                        | 2" - 18               | AL42/U200/A/ |
| 21                        | 1 5/8" - 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                        | 1/8" - 20             | AL28/U088/C90/ |
| 16                        | 5/8" - 24             | AL16/U063/C90/ | 28                        | 5/16" - 20            | AL28/U094/C90/ |
| 16                        | 3/4" - 20             | AL16/U075/C90/ | 28                        | 1" - 20               | AL28/U100/C90/ |
| 16                        | 15/16" - 20           | AL16/U081/C90/ | 28                        | 1 1/8" - 18           | AL28/U119/C90/ |
| 16                        | 1 1/8" - 18           | AL16/U088/C90/ | 28                        | 1 1/4" - 18           | AL28/U138/C90/ |
| 16                        | 1 1/4" - 18           | AL16/U094/C90/ | 28                        | 1 1/2" - 18           | AL28/U144/C90/ |
| 16                        | 1 1/2" - 18           | AL16/U100/C90/ | 28                        | 1 3/4" - 18           | AL28/U175/C90/ |
| 16                        | 1 5/8" - 18           | AL16/U119/C90/ | 28                        | 2" - 18               | AL28/U200/C90/ |
| 16                        | 1 3/4" - 18           | AL16/U131/C90/ | 28                        | 2 1/4" - 18           | AL28/U225/C90/ |
| 21                        | 1 5/8" - 20           | AL21/U075/C90/ | 34                        | 1" - 20               | AL34/U100/C90/ |
| 21                        | 1 3/4" - 20           | AL21/U088/C90/ | 34                        | 1 1/8" - 18           | AL34/U119/C90/ |
| 21                        | 1 5/8" - 20           | AL21/U094/C90/ | 34                        | 1 1/4" - 18           | AL34/U144/C90/ |
| 21                        | 1" - 20               | AL21/U100/C90/ | 34                        | 1 1/2" - 18           | AL34/U175/C90/ |
| 21                        | 1 1/8" - 18           | AL21/U113/C90/ | 34                        | 2" - 18               | AL34/U200/C90/ |
| 21                        | 1 1/4" - 18           | AL21/U119/C90/ | 42                        | 1 1/4" - 18           | AL42/U175/C90/ |
| 21                        | 1 1/2" - 18           | AL21/U131/C90/ | 42                        | 2" - 18               | AL42/U200/C90/ |
| 21                        | 1 5/8" - 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                        | 1/8" - 20             | AL28/U088/45/ |
| 16                        | 5/8" - 24             | AL16/U063/45/ | 28                        | 5/16" - 20            | AL28/U094/45/ |
| 16                        | 3/4" - 20             | AL16/U075/45/ | 28                        | 1" - 20               | AL28/U100/45/ |
| 16                        | 15/16" - 20           | AL16/U081/45/ | 28                        | 1 1/8" - 18           | AL28/U119/45/ |
| 16                        | 1 1/8" - 18           | AL16/U088/45/ | 28                        | 1 1/4" - 18           | AL28/U138/45/ |
| 16                        | 1 1/4" - 18           | AL16/U094/45/ | 28                        | 1 1/2" - 18           | AL28/U144/45/ |
| 16                        | 1 1/2" - 18           | AL16/U100/45/ | 28                        | 1 3/4" - 18           | AL28/U175/45/ |
| 16                        | 1 5/8" - 18           | AL16/U119/45/ | 28                        | 2" - 18               | AL28/U200/45/ |
| 16                        | 1 3/4" - 18           | AL16/U131/45/ | 28                        | 2 1/4" - 18           | AL28/U225/45/ |
| 21                        | 1 5/8" - 20           | AL21/U075/45/ | 34                        | 1" - 20               | AL34/U100/45/ |
| 21                        | 1 3/4" - 20           | AL21/U088/45/ | 34                        | 1 1/8" - 18           | AL34/U119/45/ |
| 21                        | 1 5/8" - 20           | AL21/U094/45/ | 34                        | 1 1/4" - 18           | AL34/U144/45/ |
| 21                        | 1" - 20               | AL21/U100/45/ | 34                        | 1 1/2" - 18           | AL34/U175/45/ |
| 21                        | 1 1/8" - 18           | AL21/U113/45/ | 34                        | 2" - 18               | AL34/U200/45/ |
| 21                        | 1 1/4" - 18           | AL21/U119/45/ | 42                        | 1 1/4" - 18           | AL42/U175/45/ |
| 21                        | 1 1/2" - 18           | AL21/U131/45/ | 42                        | 2" - 18               | AL42/U200/45/ |
| 21                        | 1 5/8" - 18           | AL21/U138/45/ |                           |                       |               |

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



# 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).



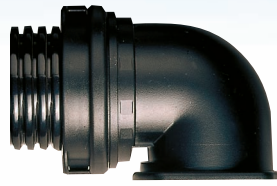
PART NUMBER

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.



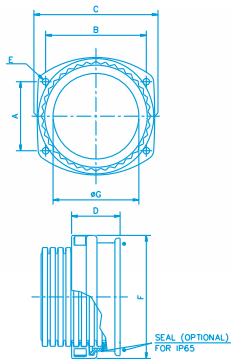
NOMINAL CONDUIT SIZE (mm)

80  
106

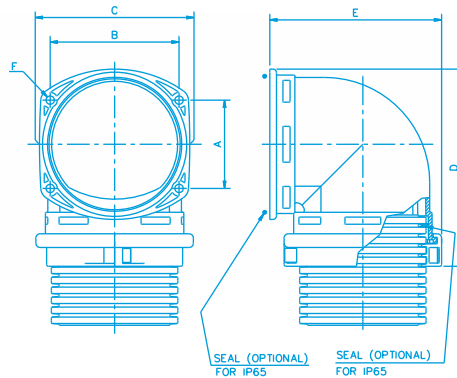
PART NUMBER

SK80  
SK106

| NOMINAL SIZE (mm) | PART NUMBER ADC80/FL/A | PART NUMBER 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 SIZE (mm) | PART NUMBER ADC80/FL/A | PART NUMBER 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



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

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



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

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





# 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.

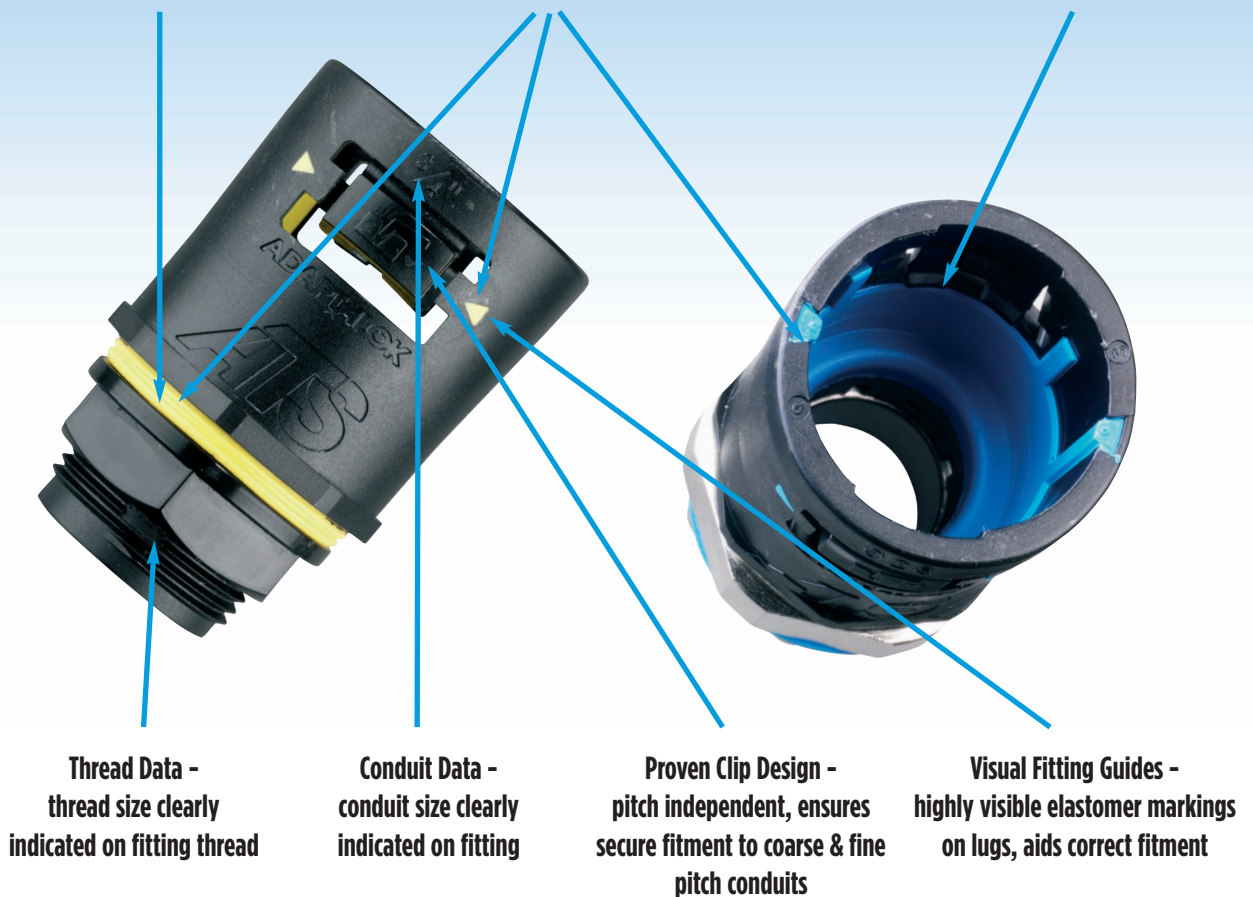
Adaptalok ATS™ uses a sophisticated moulding process to mould an internal conduit seal and a face seal washer. This makes installation times very fast, and extremely reliable, because the seals cannot be left out. The conduit system also benefits from the highest IP rating possible.

### 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

Fitting Characteristics

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

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)

|       | METRIC THREAD |              | NPT THREAD |                |
|-------|---------------|--------------|------------|----------------|
|       | METRIC THREAD | PART NUMBER  | NPT THREAD | PART NUMBER    |
| 13    | M16           | AT13/M16/C90 | 3/8        | AT13/PF038/C90 |
| 16    | M16           | AT16/M16/C90 | 3/8        | AT16/PF038/C90 |
| 16    | M20           | AT16/M20/C90 | 1/2        | AT16/PF050/C90 |
| 21/22 | M20           | AT21/M20/C90 | 1/2        | AT21/PF050/C90 |
| 28    | M25           | AT28/M25/C90 | 3/4        | AT28/PF075/C90 |
| 34    | M32           | AT34/M32/C90 | 1          | AT34/PF100/C90 |
| 42    | M40           | AT42/M40/C90 | 1 1/4      | AT42/PF125/C90 |
| 48    | M50           | AT48/M50/C90 | 1 1/2      | AT48/PF150/C90 |
| 54    | M50           | AT54/M50/C90 | 1 1/2      | AT54/PF150/C90 |
| 54    | 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 |             | NPT THREAD   |             |
|-----|---------------|-------------|--------------|-------------|
|     | 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

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



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  
Description  
Materials  
Example

### 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) . Yellow (Y) Elastomer



NOMINAL CONDUIT  
SIZE (mm)

|       | METRIC THREAD |             | PF THREAD |               | NPT THREAD |             |
|-------|---------------|-------------|-----------|---------------|------------|-------------|
|       | METRIC THREAD | PART NUMBER | PF THREAD | PART NUMBER   | NPT THREAD | PART NUMBER |
| 13    | M16           | AT13/M16/45 | 3/8       | AT13/PF038/45 | 3/8        | AT13/038/45 |
| 16    | M16           | AT16/M16/45 | 3/8       | AT16/PF038/45 | 3/8        | AT16/038/45 |
| 16    | M20           | AT16/M20/45 | 1/2       | AT16/PF050/45 | 1/2        | AT16/050/45 |
| 21/22 | M20           | AT21/M20/45 | 1/2       | AT21/PF050/45 | 1/2        | AT21/050/45 |
| 28    | M25           | AT28/M25/45 | 3/4       | AT28/PF075/45 | 3/4        | AT28/075/45 |
| 34    | M32           | AT34/M32/45 | 1         | AT34/PF100/45 | 1          | AT34/100/45 |
| 42    | M40           | AT42/M40/45 | 1 1/4     | AT42/PF125/45 | 1 1/4      | AT42/125/45 |
| 48    | M50           | AT48/M50/45 | 1 1/2     | AT48/PF150/45 | 1 1/2      | AT48/150/45 |
| 54    | M50           | ATS4/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 |             | NPT THREAD  |             |
|-----|---------------|-------------|-------------|-------------|
|     | 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 | ATS4/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

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

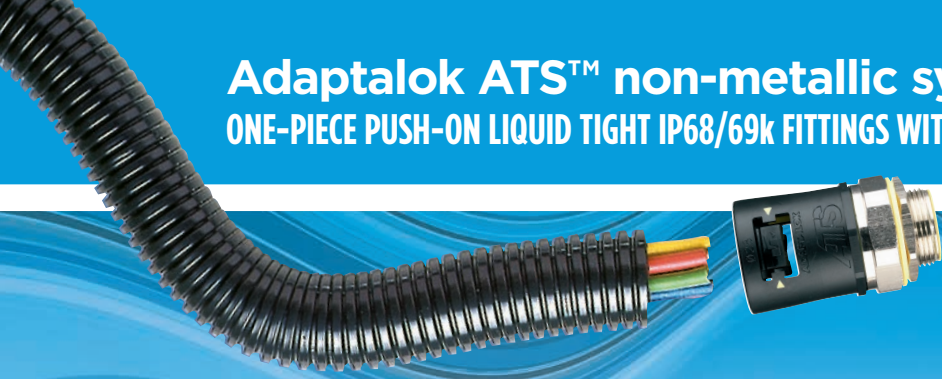


DIN5510 Approval (Deutsch Bahn)  
NF F 16-101/102  
Lloyds Register Type Approval  
London Underground Engineering Standard 2-01001-002  
UL 1696



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

## 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**  
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

DIN510 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



DIN510 Approval (Deutsch Bahn)  
NF F 16-101/102  
Lloyds Register Type Approval  
London Underground Engineering Standard 2-01001-002  
UL 1696



## PRODUCT CHARACTERISTICS

Type  
Description  
Materials  
Example

### TYPE S45 - ADAPTALOK ATSTM NEW

**45° ELBOW BODY - SWIVEL EXTERNAL MALE 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



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 ATSTM 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

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 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

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

Type  
Description  
Materials  
Example

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

90° ELBOW FITTING - 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



#### 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



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 |

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



Approvals

Approvals in Progress



DIN510 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

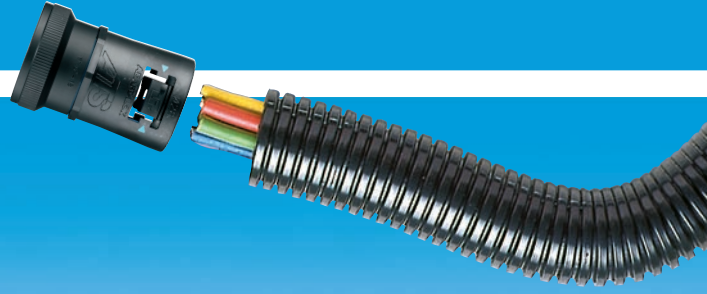
Static Applications: -50 °C to +120 °C  
Moving Applications: -45 °C to +120 °C



DIN510 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 UNEf 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/U081/SFA/ |
| 16 7/8" - 20          | AT16/U088/SFA/ |
| 16 5/8" - 20          | 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 3/4" - 20       | AT21/U075/SFA/ |
| 21/22 1/2" - 20       | AT21/U088/SFA/ |
| 21/22 5/8" - 20       | AT21/U094/SFA/ |
| 21/22 1" - 20         | AT21/U100/SFA/ |
| 21/22 1 1/8" - 18     | AT21/U113/SFA/ |
| 21/22 1 1/4" - 18     | AT21/U119/SFA/ |
| 21/22 1 1/2" - 18     | AT21/U131/SFA/ |
| 21/22 1 3/4" - 18     | AT21/U138/SFA/ |

NOMINAL CONDUIT SIZE (mm)

| CONNECTOR UNEf THREAD | PART NUMBER    |
|-----------------------|----------------|
| 21/22 1 1/8" - 18     | AT21/U144/SFA/ |
| 21/22 1 1/4" - 18     | AT21/U175/SFA/ |
| 28 1/2" - 20          | AT28/U088/SFA/ |
| 28 5/8" - 20          | AT28/U094/SFA/ |
| 28 3/4" - 20          | AT28/U100/SFA/ |
| 28 1 1/8" - 18        | AT28/U119/SFA/ |
| 28 1 1/4" - 18        | AT28/U138/SFA/ |
| 28 1 1/2" - 18        | AT28/U144/SFA/ |
| 28 1 3/4" - 18        | AT28/U175/SFA/ |
| 28 2" - 18            | AT28/U200/SFA/ |
| 28 2 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 1 1/2" - 18        | AT42/U175/SFA/ |
| 42 2" - 18            | AT42/U200/SFA/ |

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

Description **90° 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



NOMINAL CONDUIT SIZE (mm)

| CONNECTOR UNEf 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/U081/CSF90/ |
| 16 7/8" - 20          | AT16/U088/CSF90/ |
| 16 5/8" - 20          | 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 3/4" - 20       | AT21/U075/CSF90/ |
| 21/22 1/2" - 20       | AT21/U088/CSF90/ |
| 21/22 5/8" - 20       | AT21/U094/CSF90/ |
| 21/22 1" - 20         | AT21/U100/CSF90/ |
| 21/22 1 1/8" - 18     | AT21/U113/CSF90/ |
| 21/22 1 1/4" - 18     | AT21/U119/CSF90/ |
| 21/22 1 1/2" - 18     | AT21/U131/CSF90/ |
| 21/22 1 3/4" - 18     | AT21/U138/CSF90/ |

NOMINAL CONDUIT SIZE (mm)

| CONNECTOR UNEf THREAD | PART NUMBER      |
|-----------------------|------------------|
| 21/22 1 1/8" - 18     | AT21/U144/CSF90/ |
| 21/22 1 1/4" - 18     | AT21/U175/CSF90/ |
| 28 1/2" - 20          | AT28/U088/CSF90/ |
| 28 5/8" - 20          | AT28/U094/CSF90/ |
| 28 3/4" - 20          | AT28/U100/CSF90/ |
| 28 1 1/8" - 18        | AT28/U119/CSF90/ |
| 28 1 1/4" - 18        | AT28/U138/CSF90/ |
| 28 1 1/2" - 18        | AT28/U144/CSF90/ |
| 28 1 3/4" - 18        | AT28/U175/CSF90/ |
| 28 2" - 18            | AT28/U200/CSF90/ |
| 28 2 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 1 1/2" - 18        | AT42/U175/CSF90/ |
| 42 2" - 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



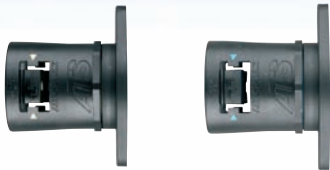


DIN5510 Approval (Deutsch Bahn)  
NF F 16-101/102  
Lloyds Register Type Approval  
London Underground Engineering Standard 2-01001-002  
UL 1696
















## PRODUCT CHARACTERISTICS

| Type                      | <b>TYPE FL/A - ADAPTALOK NEW</b>   | <b>TYPE FL/C90 - ADAPTALOK NEW</b>   | <b>TYPE FL/45 - ADAPTALOK NEW</b>  |
|---------------------------|--|--|--|
| Description               | STRAIGHT PANEL MOUNTING SWIVEL FLANGE with integral face seal.                                     | 90° ELBOW BODY - PANEL MOUNT FLANGE For panel mounting via 2 hole fixing & integral face seal.     | 45° PANEL MOUNTING SWIVEL FLANGE 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 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 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 in Progress              | DIN5510 Approval (Deutsch 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 (Deutsch 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 (Deutsch Bahn)<br>NF F 16-101/102<br>Lloyds Register Type Approval<br>London Underground Engineering Standard 2-01001-002<br>UL 1696                       |