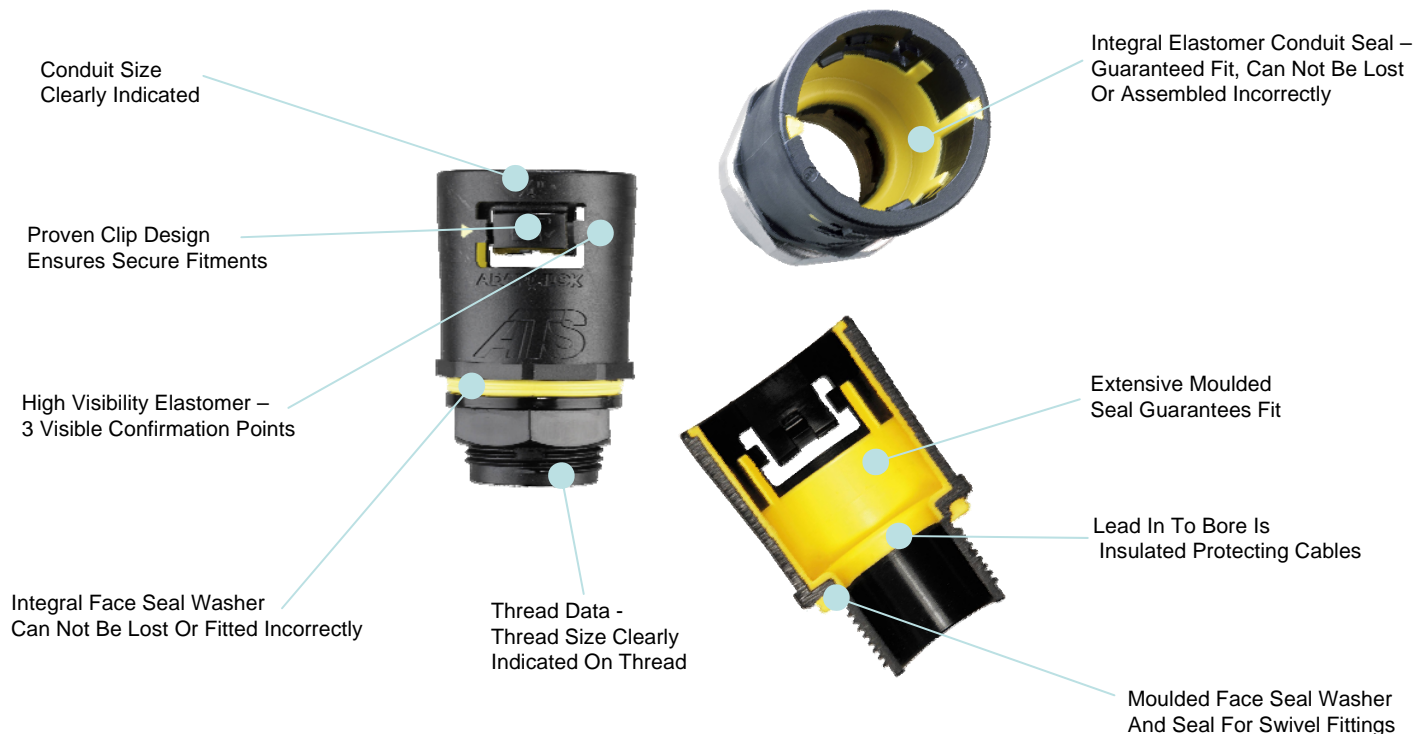


INFORMATION

Key Features



Applications

Rail – Rolling Stock And Line Side
 General Construction
 Boat Building and Marine

Characteristics

High UV Resistance
 IP68 Sealed Fitting
 IP69K Sealed Fitting
 Single Piece Fitting
 Integrated Seal System

Materials

Flame Retardant
 Heat Stabilised
 Nylon 6,6
 TPV

IP Rating



IP6x - Totally Protected Against dust (Dust-tight)



IPx8 – Protection Against Long Periods Of Immersion Under Pressure (4 Bar 30Mins)

Approvals



Fitting Types

Straight Fittings

- Fixed (Metric PF and NPT)
- Swivel (Metric and NPT)
- Female (Metric NPT and UNEF)

45° Elbows

- Fixed (Metric PF and NPT)
- Swivel (Metric and NPT)
- Female (Metric NPT and UNEF)

90° Elbows

- Fixed (Metric PF and NPT)
- Swivel (Metric and NPT)
- Female (Metric NPT and UNEF)

Flanged Fittings

- Swivel (Straight, 45° and 90°)

Misc Fittings

- Straight Couplers
- Strain Relief Fittings
- Cable Gland
- Internal braid
- Manifold Boxes

PROPERTIES

All Values Based on Size 21 Fittings and PAFS Conduit, For Other Sizes and Conduit Systems Please Consult Adaptaflex

Mechanical Properties

| Test Type | Method/Standards | Requirements | Value |
|-------------------------|------------------|--|---------|
| Tensile Strength | IEC 61386-1 | 2 mins at Specified Value PA Standard) | Class 1 |
| Tensile Strength | IEC 61386-1 | 2 mins at Specified Value PA Heavy) | Class 2 |
| Impact Strength (-45°C) | IEC 61386-1 | No Visible Damage | Class 1 |
| Impact Strength (-5°C) | IEC 61386-1 | No Visible Damage | Class 3 |
| Impact Strength (23°C) | IEC 61386-1 | No Visible Damage | Class 5 |

Thermal Properties

| Test Type | Method/Standards | Requirements | Value |
|----------------------|------------------|-----------------------------|------------------|
| Dynamic Applications | IEC 61386-23 | 5000 Operations at MBR 2Hrs | -45°C to + 120°C |
| Static Short term | | | -50°C to +120°C |
| Static Long Term | | | -40°C to +105°C |

Flammability, Smoke and Toxicity (FST) Performance

| Test Type | Method/Standard | Requirement | Result |
|-----------------------|-----------------|------------------------------|--------|
| Product | | | |
| Glow Wire | IEC 61386-1 | 750°C No Ignition | Pass |
| Flammability | IEC 61386-1-12 | 1kW Flame Self Extinguishing | Pass |
| Nylon Body | | | |
| Smoke/Toxicity | NF F16-101 | F Rating | F2 |
| Flammability | NF F16-101 | I Rating | I4 |
| Elastomer Seal | | | |
| Smoke/Toxicity | NF F16-101 | F Rating | F2 |
| Flammability | NF F16-101 | I Rating | I4 |

Pre test Conditioning

| Duration | Standard | Temperature | Relative Humidity |
|-------------|-----------------|-------------|-------------------|
| 168 (Hours) | BS EN IEC 61386 | 23 (°C) | 50 (%) |

CHEMICAL RESISTANCE

BODY – NYLON (Black or Grey)

SEALS – TPV (Yellow or Blue)

| Chemical Properties | Suitable | Limited Suitability |
|-------------------------|--------------|---------------------|
| Astm No.1 | | |
| Astm No.2 | | |
| Astm No.3 | | |
| Acetic Acid (10%) | | |
| Acetone | | |
| Aluminium Chloride | | |
| Aniline | Not Suitable | |
| Benzaldehyde | | |
| Benzene | | |
| Carbon tetrachloride | | |
| Chlorine water | Not Suitable | |
| Chloroform | Not Suitable | |
| Citric Acid | | |
| Copper Sulphate | | |
| Cresol | Not Suitable | |
| Diesel oil | | |
| Diethylamine | Not Suitable | |
| Ethanol | | |
| Ether | | |
| Ethylamine | Not Suitable | |
| Ethylene Glycol | | |
| Ethyl Ethanoate | Not Suitable | |
| Freon 32 | | |
| Hydrochloric Acid (10%) | Not Suitable | |
| Hydrochloric Acid (36%) | Not Suitable | |
| Hydrogen Peroxide (35%) | Not Suitable | |
| Hydrogen Peroxide (87%) | Not Suitable | |
| Lactic Acid | | |
| Lubricating oil | | |
| Methanol | | |
| Methyl Bromide | Not Suitable | |
| MEK | | |
| Nitric Acid (10%) | Not Suitable | |
| Nitric Acid (70%) | Not Suitable | |
| Oxalic Acid | | |
| Ozone (Gas) | Not Suitable | |
| Paraffin oil | | |
| Petrol | | |
| Phenol | Not Suitable | |
| Sea Water | | |
| Silver Nitrate | | |
| Skydrol | | |
| Sodium Chloride | | |
| Sodium Hydroxide (10%) | | |
| Sodium Hydroxide (60%) | | |
| Sulphur Dioxide (Gas) | Not Suitable | |
| Sulphuric Acid (10%) | Not Suitable | |
| Sulphuric Acid (70%) | Not Suitable | |
| Toluene | Not Suitable | |
| Transformer Oil | | |
| 1,1,1-Trichloroethane | | |
| Trichloroethylene | | |
| Turpentine | | |
| Vegetable Oil | | |
| Vinyl Acetate | Not Suitable | |
| Water | | |
| White Spirit | | |
| Zinc Chloride | Not Suitable | |

The information above is given as a guide only and is based on published technical data and experience. The chemical resistance of the above products is dependant on factors such as chemical exposure, concentration of the chemical and temperature. The above chemicals are valid for a temperature of 23°C. Use of the above table is at the users own discretion and risk. Those using it must satisfy themselves that their application presents no health and safety risks. The end user should assess compatibility with their application and contact Adaptaflex for further information.