

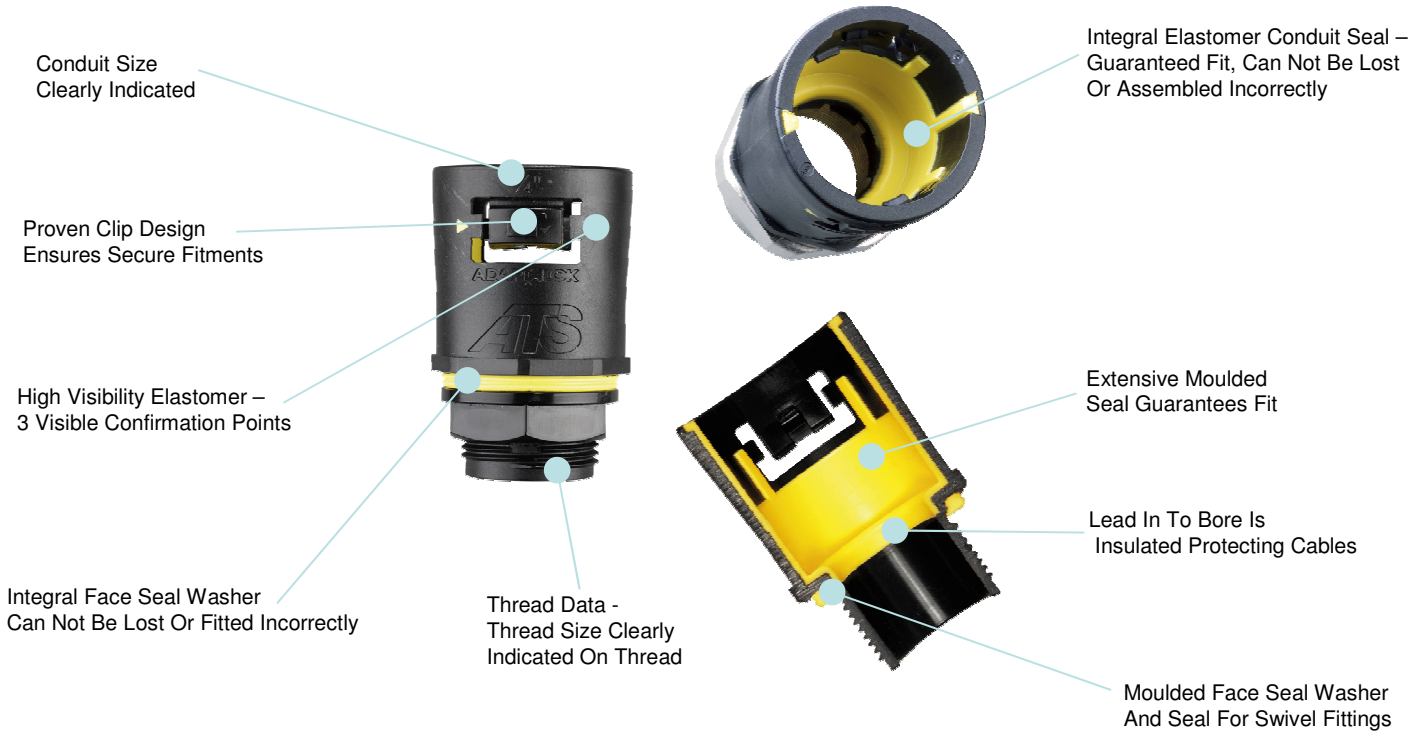


IP68 Sealed Fittings Non-Metallic Systems



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



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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 (%)








































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Non-Metallic Systems



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.