

External Hinged Interfaces

Ampseal 16 Straight Interface

Technical Characteristics

Conforms to	CE Mark to the low voltage directive RoHS Compliant to 2011/65/EU Conforms with end of life vehicle directive (ELV) EU200/53/EC	
Approvals and Standards	 	
Degree of mechanical protection	Medium	
Degree of protection	IP40 - Hinged Connector Interface fittings	
UV protection	Very High (Black)	
Finish	Black (BL)	
Application	A range of straight and 90° elbow fittings offering a compact and high integrity connection between Ampseal automotive connectors and H-flex conduit systems. These interfaces provide complete cable protection right up to the connector. They also provide strain relief and protection from high pressure washing, helping to maintain the sealing integrity of the connector.	
Normal operating temperature range	Minimum Temperature	Maximum Temperature
	- 40°C	+120°C
For use with - Conduit range	For use with all Conduits in the H-flex range	
Fire performance	Self Extinguishing Low smoke toxicity & Halogen Free	
Chemical resistance & Storage data	Click or See page 6	
Type of material	Polyamide (Nylon) PA 66 - heat and UV stabilised	

Image



External Hinged Interfaces

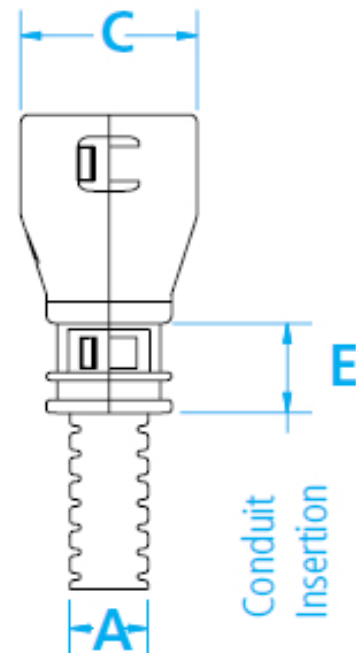
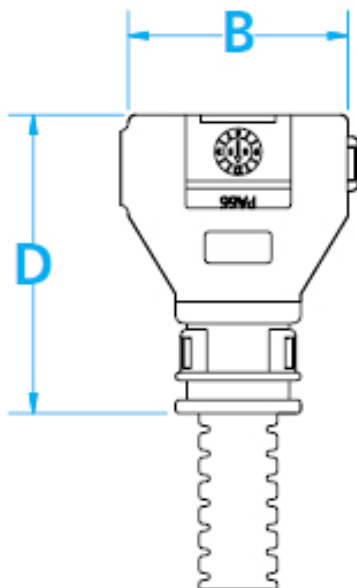
Ampseal 16 Straight Interface

Dimensional Data and Part Number Configuration

Part No. Straight Interface	Conduit Size (A)		Nominal Dimensions				Connector Reference
	NC	NW	B	C	D	E	
TCI08-AT2PL	08	7.5	23	18	34	12	2 Way
TCI08-AT3PL	08	7.5	28	18	33	11	3 Way
TCI08-AT4PL	08	7.5	29	23	39	13	4 Way
TCI12-AT4PL	12	10	29	23	37	11	4 Way
TCI12-AT6PL	12	10	29	23	37	11	6 Way
TCI12-AT8PL	12	10	32	23	37	11	8 Way
TCI12-AT12PL	12	10	41	23	37	11	12 Way
TCI16-AT8PL	16	13	32	23	37	11	8 Way
TCI16-AT12PL	16	13	41	23	37	11	12 Way
TCI20-AT20PL	20	17	41	23	48	12	20 Way

Note : Nominal Dimensions are in mm

LP = Low Profile back shell for AMPSEAL Plug,
LR = Low Profile Back Shell for AMPSEAL Receptacle
PL= Standard Profile Back Shell for AMPSEAL Plug



External Hinged Interfaces

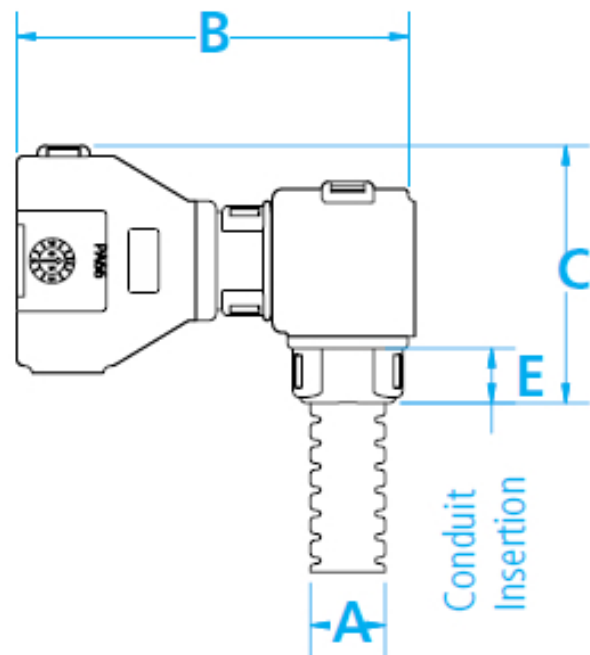
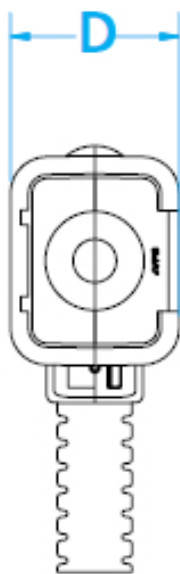
Ampseal 16 90° Elbow Interface

Dimensional Data and Part Number Configuration

Part No. 90° Elbow Interface	Conduit Size (A)		Nominal Dimensions				Connector Reference
	NC	NW	B	C	D	E	
TCI08-90-AT2LP	08	7.5	37.3	25.0	17.0	7.1	2 Way
TCI08-90-AT2LR	08	7.5	37.3	25.0	20.0	7.1	2 Way
TCI08-90-AT3LP	08	7.5	39.8	29.0	17.1	7.1	3 Way
TCI08-90-AT3LR	08	7.5	39.8	29.0	17.1	7.1	3 Way
TCI08-90-AT4LP	08	7.5	40.8	29.4	20.6	7.1	4 Way
TCI08-90-AT4LR	08	7.5	40.8	29.4	20.6	7.1	4 Way
TCI08-90-AT6LP	08	7.5	42.8	29.4	22.5	7.1	6 Way
TCI08-90-AT6LR	08	7.5	42.8	29.4	22.5	7.1	6 Way

Note : Nominal Dimensions are in mm

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PL= Standard Profile Back Shell for AMPSEAL Plug



External Hinged Interfaces

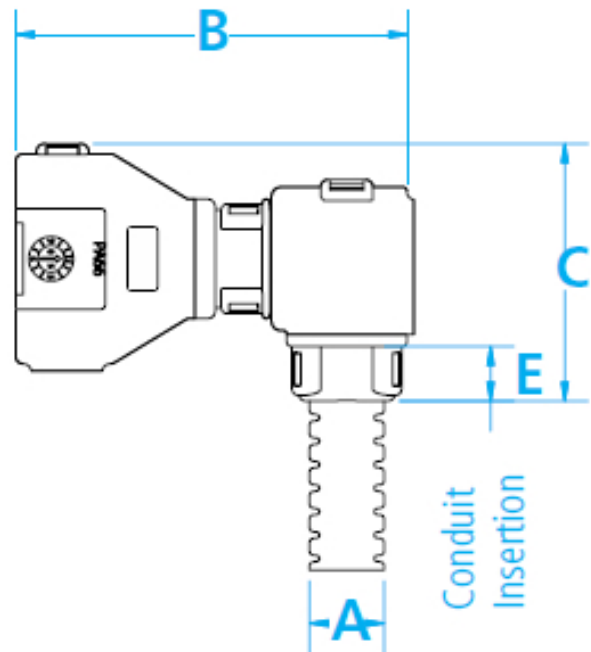
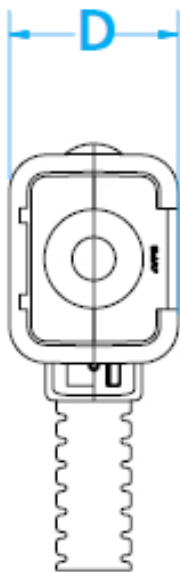
AMPSEAL 16 Elbow Swivel Interface - Plugs and Receptables

Dimensional Data and Part Number Configuration

Part No. Plugs and Receptables	Conduit Size (A)		Nominal Dimensions				Connector Reference
	NC	NW	B	C	D	E	
TCI12-90-AT2LP	12	10	38	23	20	7.1	2 Way
TCI12-90-AT2LR	12	10	38	23	20	7.1	2 Way
TCI12-90-AT3LP	12	10	40.2	27.1	17.1	7.1	3 Way
TCI12-90-AT3LR	12	10	40.2	27.1	17.1	7.1	3 Way
TCI12-90-AT4LP	12	10	41.1	27.5	20.6	7.1	4 Way
TCI12-90-AT4LR	12	10	41.1	27.5	20.6	7.1	4 Way
TCI12-90-AT6LP	12	10	43.1	27.5	22.5	7.1	6 Way
TCI12-90-AT6LR	12	10	43.1	27.5	22.5	7.1	6 Way

Note : Nominal Dimensions are in mm

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External Hinged Interfaces

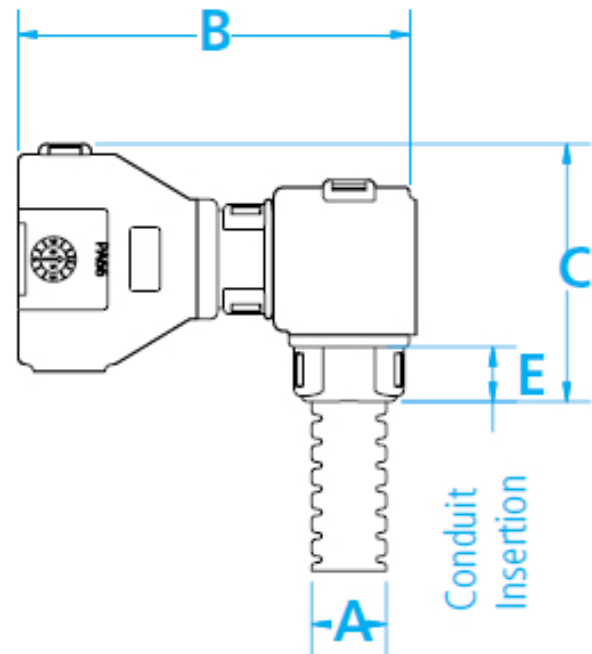
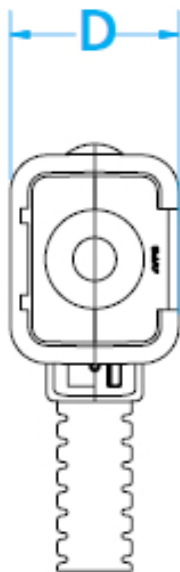
AMPSEAL 16 90° Elbow Swivel Interface

Dimensional Data and Part Number Configuration

Part No. 90° Elbow Swivel Interface	Conduit (A)		Nominal Dimensions				Connector Reference
	NC	NW	B	C	D	E	
TCI08-90-AT2PL	08	7.5	49	32	20	7.1	2 Way
TCI08-90-AT3PL	08	7.5	49	34	20	7.1	3 Way
TCI08-90-AT4PL	08	7.5	53	34	23	7.1	4 Way
TCI12-90-AT2PL	12	10	49	32	20	7.1	2 Way
TCI12-90-AT3PL	12	10	49	34	20	7.1	3 Way
TCI12-90-AT4PL	12	10	53	35	23	7.1	4 Way

Note : Nominal Dimensions are in mm

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AMPSEAL 16 Interfaces

Chemical Resistance Chart

Key:

Suitable :



Limited Suitability :



Unsuitable :



Not Tested :



Astm No.1	Diesel oil	Methyl Bromide	Sulphur Dioxide (Gas)
Astm No.2	Diethylamine	MEK	Sulphuric Acid (10%)
Astm No.3	Ethanol	Nitric Acid (10%)	Sulphuric Acid (70%)
Acetic Acid (10%)	Ether	Nitric Acid (70%)	Toluene
Acetone	Ethylamine	Oxalic Acid	Transformer Oil
Aluminium Chloride	Ethylene Glycol	Ozone (Gas)	1,1,1-Trichloroethane
Aniline	Ethyl Ethanoate	Paraffin oil	Trichloroethylene
Benzaldehyde	Freon 32	Petrol	Turpentine
Benzene	Hydrochloric Acid (10%)	Phenol	Vegetable Oil
Carbon tetrachloride	Hydrochloric Acid (36%)	Sea Water	Vinyl Acetate
Chlorine water	Hydrogen Peroxide (35%)	Silver Nitrate	Water
Chloroform	Hydrogen Peroxide (87%)	Skydrol	White Spirit
Citric Acid	Lactic Acid	Sodium Chloride	Zinc Chloride
Copper Sulphate	Lubricating oil	Sodium Hydroxide (10%)	
Cresol	Methanol	Sodium Hydroxide (60%)	

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 TTS for further information.

ADHERENCE TO THE CURRENT WIRING REGULATIONS BS7671 OR NEC WIRING REGULATIONS (FOR USA) IS STRONGLY ADVISED.

MINIMUM BEND RADIUS FOR FLEXING IS DEPENDANT UPON MINIMUM TEMPERATURE, BENDING FREQUENCY AND CHEMICAL ENVIRONMENT.

Storage Guidelines

To maintain balanced moisture content, H-flex recommends storing products under the following conditions:

Storage temp.	Installation temp.	Rel. humidity
18°C to 30°C	>18°C	>30%

If products from an outside environment are brought into a heated processing area, the change in climate may suddenly cause temporary de-moisturisation around the edges. After 24 hours in the processing area a natural balance will be restored.

Observing this storage recommendation ensures optimum process-ability and material properties.