

External Hinged Interfaces

AMPSEAL 16 Connector

Harnessflex
SPECIALIST CONDUIT SYSTEMS

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 Harnessflex 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 [Harnessflex](#) 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



Cable Management Products Ltd.

CMG House - Station Road - Coleshill - B46 1HT - United Kingdom

Tel: +44(0)1675 468 222 - Fax: +44(0)1675 464 930

Technical Support e-mail: cmg.conduitsystems@tnb.com - www.harnessflex.com

Thomas & Betts

A Member of the ABB Group

External Hinged Interfaces

AMPSEAL 16 Connector

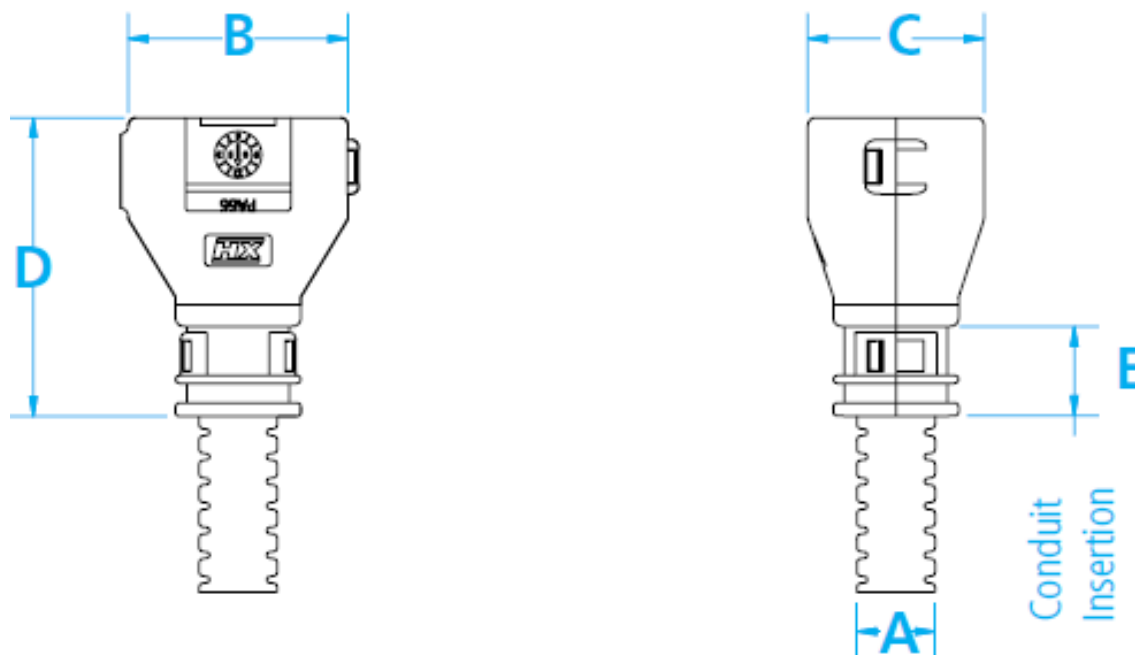


Dimensional Data and Part Number Configuration

Part No.	Conduit Size (A)		Nominal Dimensions				Connector Reference
	NC	NW	B	C	D	E	
CI08-AT2PL	08	7.5	23	18	34	12	2 Way
CI08-AT3PL	08	7.5	28	18	33	11	3 Way
CI08-AT4PL	08	7.5	29	23	39	13	4 Way
CI12-AT4PL	12	10	29	23	37	11	4 Way
CI12-AT6PL	12	10	29	23	37	11	6 Way
CI12-AT8PL	12	10	32	23	37	11	8 Way
CI12-AT12PL	12	10	41	23	37	11	12 Way
CI16-AT8PL	16	13	32	23	37	11	8 Way
CI16-AT12PL	16	13	41	23	37	11	12 Way
CI20-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 Connector

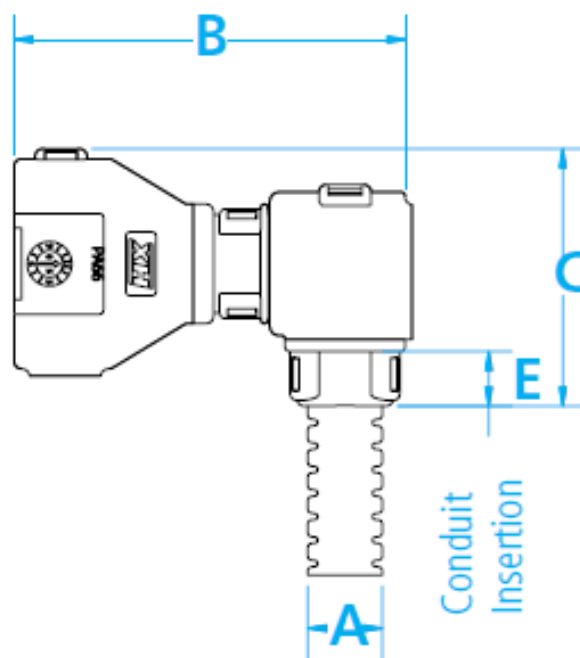
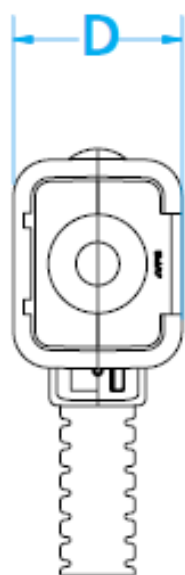


Dimensional Data and Part Number Configuration

Part No.	Conduit Size (A)		Nominal Dimensions				Connector Reference
	NC	NW	B	C	D	E	
CI08-90-AT2LP	08	7.5	37.3	25.0	17.0	7.1	2 Way
CI08-90-AT2LR	08	7.5	37.3	25.0	20.0	7.1	2 Way
CI08-90-AT3LP	08	7.5	39.8	29.0	17.1	7.1	3 Way
CI08-90-AT3LR	08	7.5	39.8	29.0	17.1	7.1	3 Way
CI08-90-AT4LP	08	7.5	40.8	29.4	20.6	7.1	4 Way
CI08-90-AT4LR	08	7.5	40.8	29.4	20.6	7.1	4 Way
CI08-90-AT6LP	08	7.5	42.8	29.4	22.5	7.1	6 Way
CI08-90-AT6LR	08	7.5	42.8	29.4	22.5	7.1	6 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 Connector

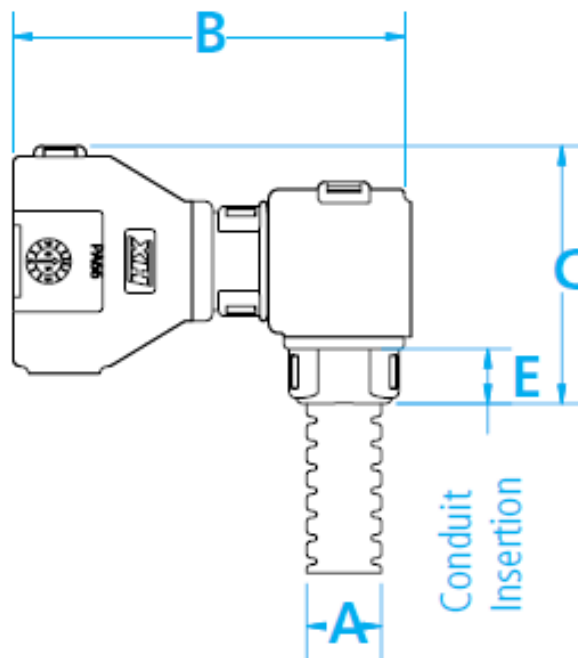
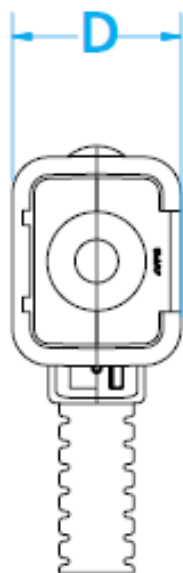


Dimensional Data and Part Number Configuration

Part No.	Conduit Size (A)		Nominal Dimensions				Connector Reference
	NC	NW	B	C	D	E	
CI12-90-AT2LP	12	10	38	23	20	7.1	2 Way
CI12-90-AT2LR	12	10	38	23	20	7.1	2 Way
CI12-90-AT3LP	12	10	40.2	27.1	17.1	7.1	3 Way
CI12-90-AT3LR	12	10	40.2	27.1	17.1	7.1	3 Way
CI12-90-AT4LP	12	10	41.1	27.5	20.6	7.1	4 Way
CI12-90-AT4LR	12	10	41.1	27.5	20.6	7.1	4 Way
CI12-90-AT6LP	12	10	43.1	27.5	22.5	7.1	6 Way
CI12-90-AT6LR	12	10	43.1	27.5	22.5	7.1	6 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 Connector

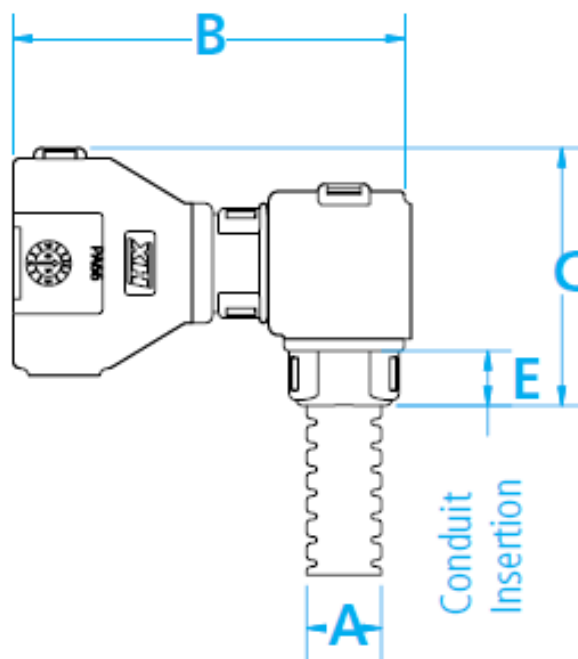
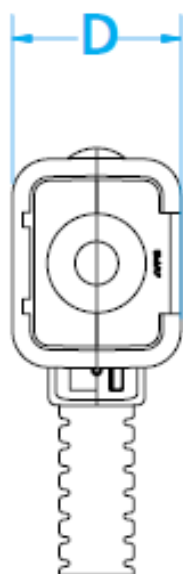


Dimensional Data and Part Number Configuration

Part No.	Conduit (A)		Nominal Dimensions				Connector Reference
	NC	NW	B	C	D	E	
CI08-90-AT2PL	08	7.5	49	32	20	7.1	2 Way
CI08-90-AT3PL	08	7.5	49	34	20	7.1	3 Way
CI08-90-AT4PL	08	7.5	53	34	23	7.1	4 Way
CI12-90-AT2PL	12	10	49	32	20	7.1	2 Way
CI12-90-AT3PL	12	10	49	34	20	7.1	3 Way
CI12-90-AT4PL	12	10	53	35	23	7.1	4 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 Connector



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 Thomas & Betts 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, Harnessflex 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.