**Technical Data Sheet** 201511 Page 1

# **External Hinged Interfaces**

## **AMPSEAL 16 Connector**



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	( E ROHS
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 <u>Harnessflex</u> 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





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# **External Hinged Interfaces**

### **AMPSEAL 16 Connector**



## **Dimensional Data and Part Number Configuration**

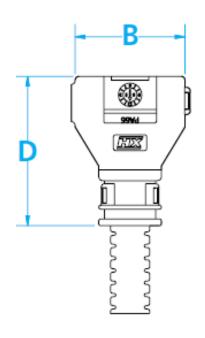
Part No.	Conduit	Size (A)		Nominal Dimensions			Connector
Straight Interface	NC	NW	В	С	D	E	Reference
CI08-AT2PL	08	7.5	23	18	34	12	2 Way
CI08-AT3PL	08	7.5	28	18	33	11	3 Way
CI08-AT4PL	08	7.5	29	23	39	13	4 Way
CI12-AT4PL	12	10	29	23	37	11	4 Way
CI12-AT6PL	12	10	29	23	37	11	6 Way
CI12-AT8PL	12	10	32	23	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

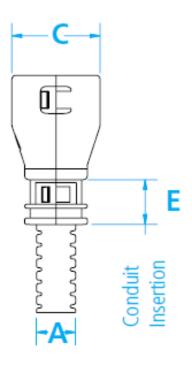
Note: Nominal Dimensions are in mm

LP = Low Profile back shell for AMPSEAL Plug,

LR = Low Profile Back Shell for AMPSEAL Receptacle

PL= Standard Profile Back Shell for AMPSEAL Plug





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# **External Hinged Interfaces**

### **AMPSEAL 16 Connector**



## **Dimensional Data and Part Number Configuration**

Part No.	Conduit Size (A)		Nominal Dimensions				Connector
	NC	NW	В	С	D	E	Reference
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

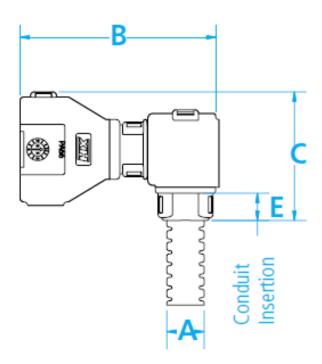
Note: Nominal Dimensions are in mm

LP = Low Profile back shell for AMPSEAL Plug,

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PL= Standard Profile Back Shell for AMPSEAL Plug





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# **External Hinged Interfaces**

### **AMPSEAL 16 Connector**



## **Dimensional Data and Part Number Configuration**

Part No.	Conduit Size (A)			Connector			
	NC	NW	В	С	D	E	Reference
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

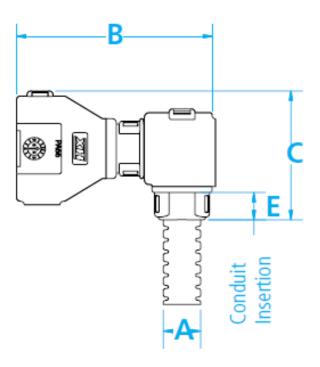
Note: Nominal Dimensions are in mm

LP = Low Profile back shell for AMPSEAL Plug,

LR = Low Profile Back Shell for AMPSEAL Receptacle

PL= Standard Profile Back Shell for AMPSEAL Plug





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201511 Page 5 **Technical Data Sheet** 

# **External Hinged Interfaces**

### **AMPSEAL 16 Connector**



## **Dimensional Data and Part Number Configuration**

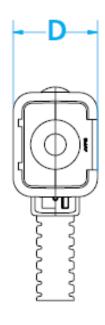
Part No.	Conduit (A)			Connector			
	NC	NW	В	С	D	E	Reference
CI08-90-AT2PL	08	7.5	49	32	20	7.1	2 Way
CI08-90-AT3PL	08	7.5	49	34	20	7.1	3 Way
CI08-90-AT4PL	08	7.5	53	34	23	7.1	4 Way
CI12-90-AT2PL	12	10	49	32	20	7.1	2 Way
CI12-90-AT3PL	12	10	49	34	20	7.1	3 Way
CI12-90-AT4PL	12	10	53	35	23	7.1	4 Way

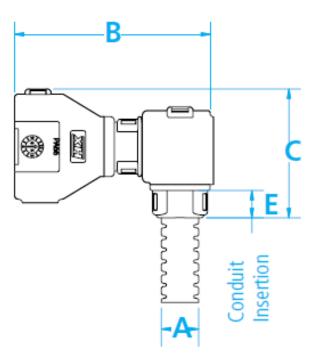
Note: Nominal Dimensions are in mm

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## **External Hinged Interfaces**

#### **AMPSEAL 16 Connector**



#### **Chemical Resistance Chart**

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

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