

High Temperature Interfaces

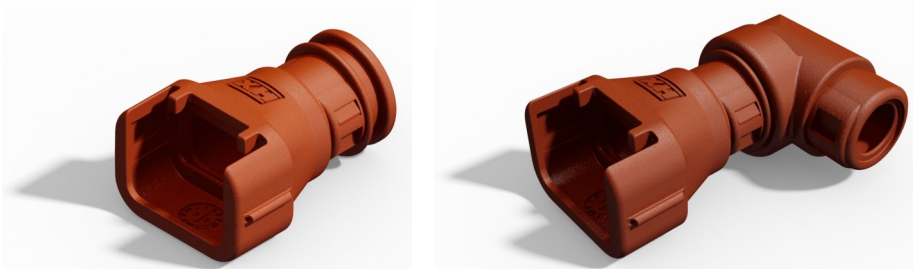
FCI Automotive APEX - Connector Interface



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	High			
Degree of protection	IP40 - Hinged Connector Interface fittings			
UV protection	Medium			
Finish	Dark Orange			
Application	A range of straight and 90° elbow fittings offering a compact and high integrity connection between FCI Apex automotive connectors or junior timer 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	Permanent Max Temperature	Long Term Max Temperature (30,000 Hrs)	Short Term Max Temperature (3000 Hrs)
	-40°C	+160°C	+185°C	+200°C
For use with - Conduit range	Full TempGuard system protection is achieved using these fittings with HTC conduit. Compatible with all Harnessflex conduits.			
Fire Performance	Test Standard	Performance Rating		
	UL94	V2		
	UL94 RTI	150 (Elec)		
Chemical resistance & Storage data	Click or See page 4			
Type of material	High Temperature Polyamide - Low Smoke and Halogen Free			

Image



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Dimensional Data & Part Number Configuration

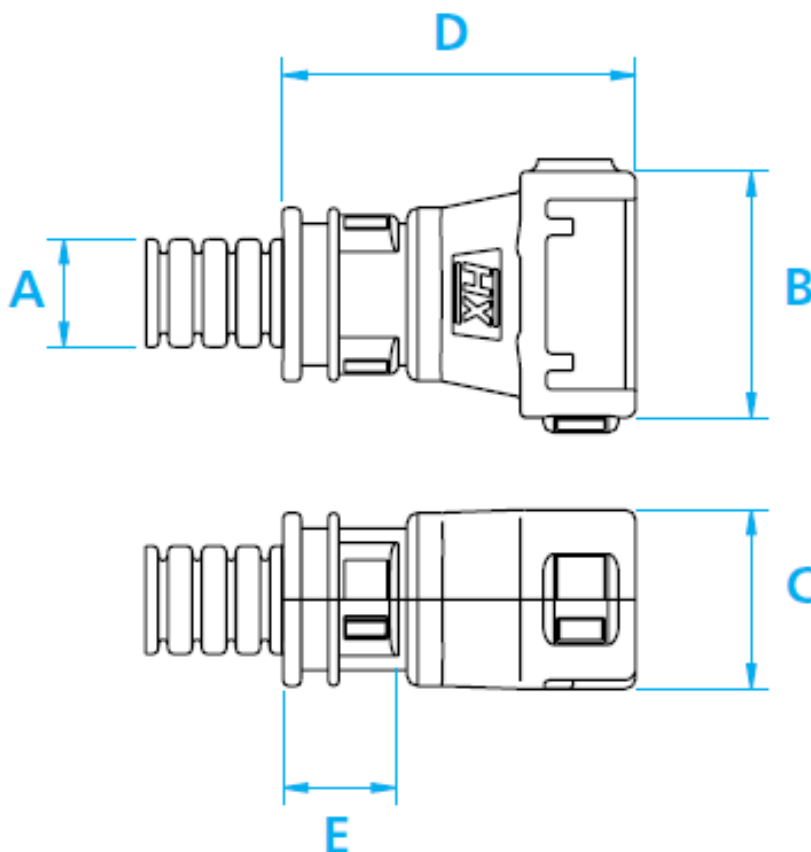
Straight Interface * Stocked Items	APEX Connector Type	B	C	D	E	Conduit Size (A)	Conduit Size (A)
						(NC)	(NW)
CIH08-FCI02	FCI 2-Way	25.0	17.0	33	12	08	7.5
CIH08-FCI03	FCI 3-Way	34.0	17.0	34	12	08	7.5
CIH08-FCI04	FCI 4-Way	39.0	17.0	34	12	08	7.5
CIH12-FCI02	FCI 2-Way	25.0	17.0	27	7	12	10
CIH12-FCI03	FCI 3-Way	35.0	17.0	29	7	12	10
CIH12-FCI04	FCI 4-Way	38.0	17.0	29	7	12	10
CIH12-FCI14	FCI 14-Way	53.0	26.0	34	10	12	10

Straight Interface ** Made to Order	APEX Connector Type	B	C	D	E	Conduit Size (A)	Conduit Size (A)
						(NC)	(NW)
CH16-FCI14	FCI 14-Way	53.0	26.0	33	n/a	-	-
CIH17-FCI10	FCI 10-Way	39.2	25.5	44	10.6	17	14

Note : Nominal Dimensions are in mm

* Part numbers listed are stocked items available for immediate order

** Parts numbers listed are available to order but not stocked items, and would therefore be subject to manufacturing leadtime.



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Dimensional Data & Part Number Configuration

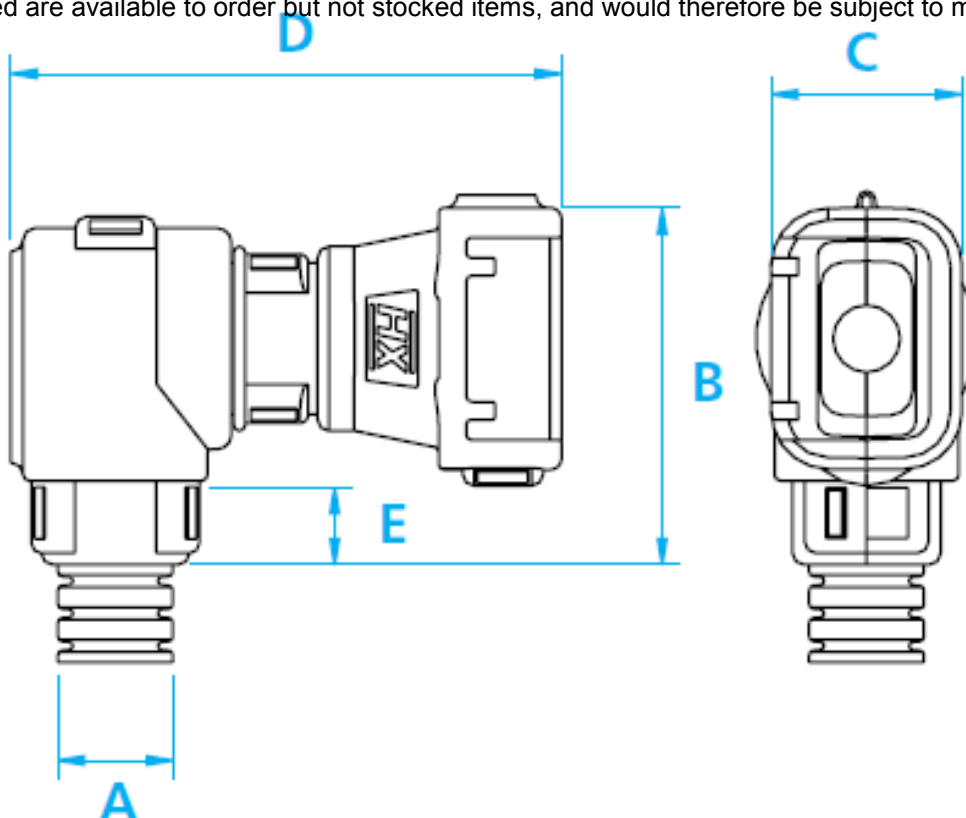
90° Elbow Interface * Stocked Items	APEX Connector Type	B	C	D	E	Conduit Size (A)	
						(NC)	(NW)
CIH08-90-FCI02	FCI 2-Way	31.0	19.0	48	10	08	7.5
CIH08-90-FCI03	FCI 3-Way	35.0	19.0	49	10	08	7.5
CIH12-90-FCI02	FCI 2-Way	32.0	19.0	48	10	12	10

90° Elbow Interface ** Made to Order	APEX Connector Type	B	C	D	E	Conduit Size (A)	
						(NC)	(NW)
CIH08-90-FCS02	FCI 2-Way	30.0	19.0	33	10	08	7.5
CIH08-90-FCI04	FCI 4-Way	38.0	19.0	49	10	08	7.5
CIH12-90-FCI03	FCI 3-Way	37.0	19.0	49	10	12	10
CIH12-90-FCI04	FCI 4-Way	38.0	19.0	49	10	12	10
CIH08-90-FCI14	FCI 14-Way	38.0	24.0	57	10	08	7.5
CIH12-90-FCI14	FCI 14-Way	38.0	24.0	57	10	12	10
CIH16-90-FCI14	FCI 14-Way	38.0	24.0	57	10	16	13

Note : Nominal Dimensions are in mm

* Part numbers listed are stocked items available for immediate order

** Parts numbers listed are available to order but not stocked items, and would therefore be subject to manufacturing leadtime.



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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	● Urea
	● Carbon tetrachloride	● Hydrochloric Acid (36%)	● Sea Water	● Uric Acid
	● Chlorine water	● Hydrogen Peroxide (35%)	● Silver Nitrate	● Vegetable Oil
	● Chloroform	● Hydrogen Peroxide (87%)	● Skydrol	● Vinyl Acetate
	● Citric Acid	● Lactic Acid	● Sodium Chloride	● Water
	● Copper Sulphate	● Lubricating oil	● Sodium Hydroxide (10%)	● White Spirit
	● Cresol	● Methanol	● Sodium Hydroxide (60%)	● Zinc Chloride

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.