

External Hinged Interfaces

FCI Automotive Apex 2.8 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 FCI Apex automotive connectors or junior timer 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	See page 4	
Type of material	Polyamide (Nylon) PA 66 - heat and UV stabilised	

Image

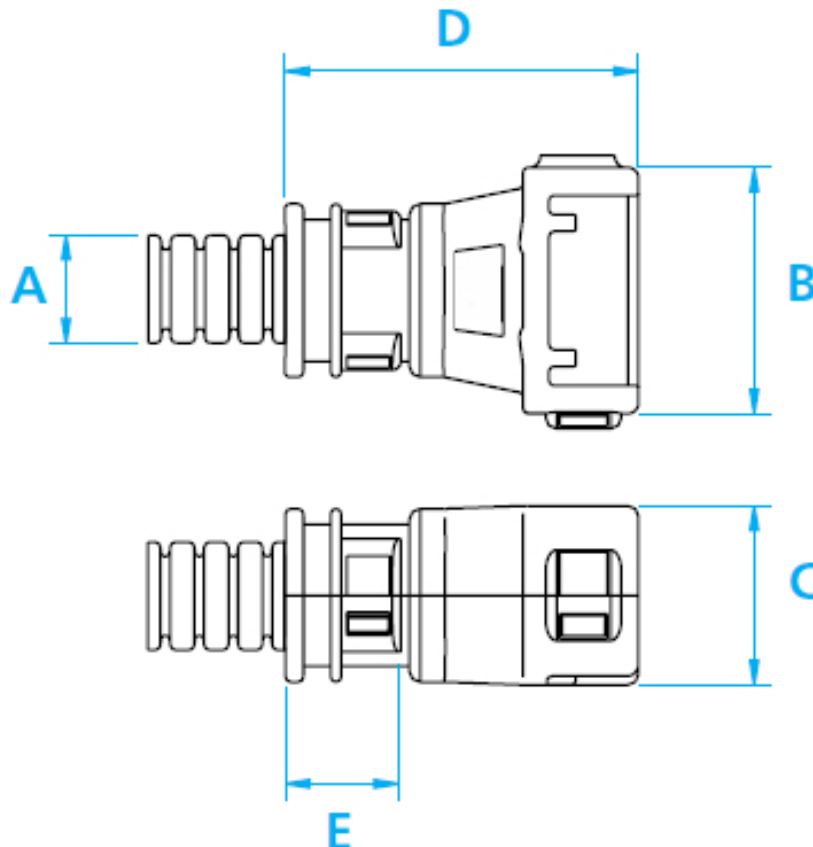


External Hinged Interfaces

FCI Automotive Apex 2.8 Straight Interface

Dimensional Data & Part Number Configuration

Part No. Straight Interface	Connector	Conduit Size (A) (NC)	Conduit Size (A) (NW)	B	C	D	E
TCI08-FCI02	2 Way	08	7.5	25.0	17.0	33	12
TCI08-FCI03	3 Way	08	7.5	34.0	17.0	34	12
TCI08-FCI04	4 Way	08	7.5	39.0	17.0	34	12
TCI12-FCI02	2 Way	12	10	25.0	17.0	27	7
TCI12-FCI03	3 Way	12	10	35.0	17.0	29	7
TCI12-FCI04	4 Way	12	10	38.0	17.0	29	7
TCI12-FCI14	14 Way	12	10	53.0	26.0	34	10
TCI16-FCI14	14 Way	16	13	53.0	26.0	59	10
TC16-FCI14-1	14 Way	n/a	n/a	53.0	26.0	33	n/a
TCI17-FCI10	10 Way	17	14	39.2	25.5	44	10.6
TCI25-FCI50	50 Way	25	22	56.0	37.0	50.7	13

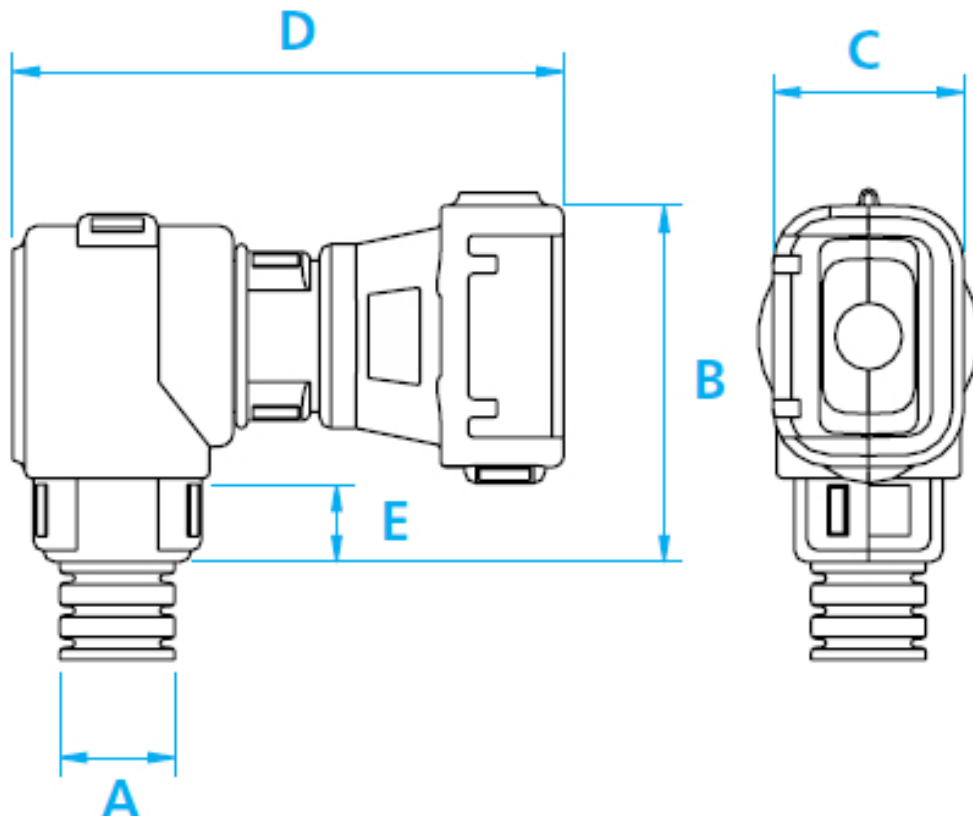


External Hinged Interfaces

FCI Automotive Apex 2.8 90° Elbow Interface

Dimensional Data & Part Number Configuration

Part No. 90° Elbow Interface	Connector	Conduit Size (A)	Conduit Size (A)	B	C	D	E
TCI08-90-FCS02	2 Way	08	7.5	30.0	19.0	33	10
TCI08-90-FCI02	2 Way	08	7.5	31.0	19.0	48	10
TCI08-90-FCI03	3 Way	08	7.5	35.0	19.0	49	10
TCI08-90-FCI04	4 Way	08	7.5	38.0	19.0	49	10
TCI12-90-FCI02	2 Way	12	10	32.0	19.0	48	10
TCI12-90-FCI03	3 Way	12	10	37.0	19.0	49	10
TCI12-90-FCI04	4 Way	12	10	38.0	19.0	49	10
TCI08-90-FCI14	14 Way	8	7.5	38.0	24.0	57	10
TCI12-90-FCI14-1	14 Way	12	10	38.0	24.0	57	10
TCI16-90-FCI14	14 Way	16	13	38.0	24.0	57	10



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FCI Automotive APEX - 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 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.