



TransTechnical Solutions

Technical Data Sheet

Interfaces

BOSCH Compact 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
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Approvals and Standards



Degree of mechanical protection	Medium
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Degree of protection	IP40 - Hinged Connector Interface Fittings
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UV protection	High
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Finish	Black
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Application	Single junction straight and 90° elbow fittings providing high integrity connections between BOSCH Compact connectors and H-flex conduit systems. In addition, 90° elbow versions allow the conduit to swivel 360° around the connector housing, sufficient to avoid the problems associated with one-piece interfaces of overflexing due to movement or vibration
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Normal operating temperature range	Minimum Temperature	Maximum Temperature
	- 40°C	+ 120°C

For use with - Conduit Series	For use with all Conduits in the H-flex range
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Fire performance	Self Extinguishing Low smoke & Halogen Free
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Chemical resistance & Storage data	See page 4
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Type of material	Polyamide (Nylon) - Low Smoke Toxicity and Halogen Free
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Image





Connect and Protect

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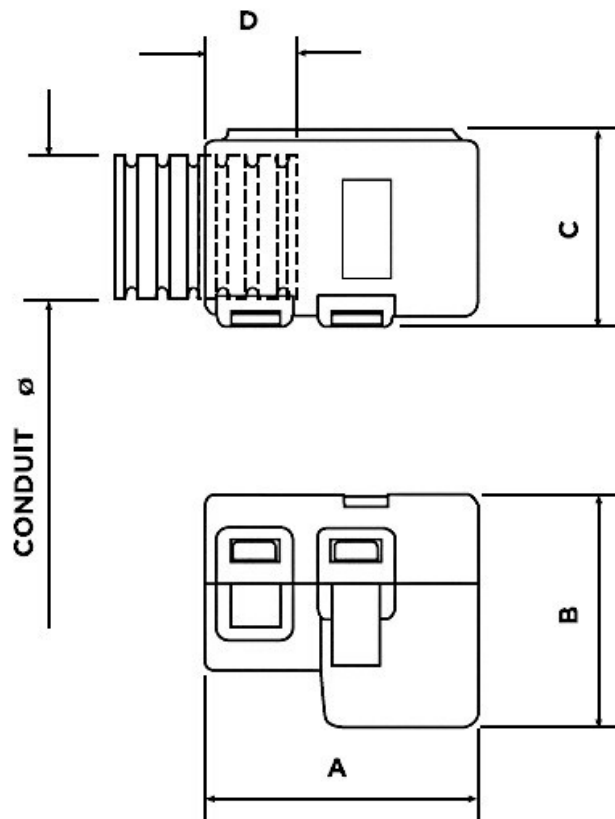
Interfaces

BOSCH Compact Connector Interface

Dimensional Data & Part Number Configuration

Part No.	A	B	C	D	Conduit Size (NC)	Conduit Size (NW)	BOSCH - Reference
Straight Interface							
TCI08-BC2	25	21	18	10	8	7.5	Compact 2-way
TCI08-BC3	25	27	18	10	8	7.5	Compact 3-way
TCI08-BC4	25	29	18	10	8	7.5	Compact 4-way
TCI12-BC2	25	21	18	10	12	10	Compact 2-way
TCI12-BC3	25	27	18	10	12	10	Compact 3-way
TCI12-BC4	25	29	18	10	12	10	Compact 4-way
TCI28-BC40	44	40	-	-	28	23	Compact 40-way

Note : Dimensions are in mm



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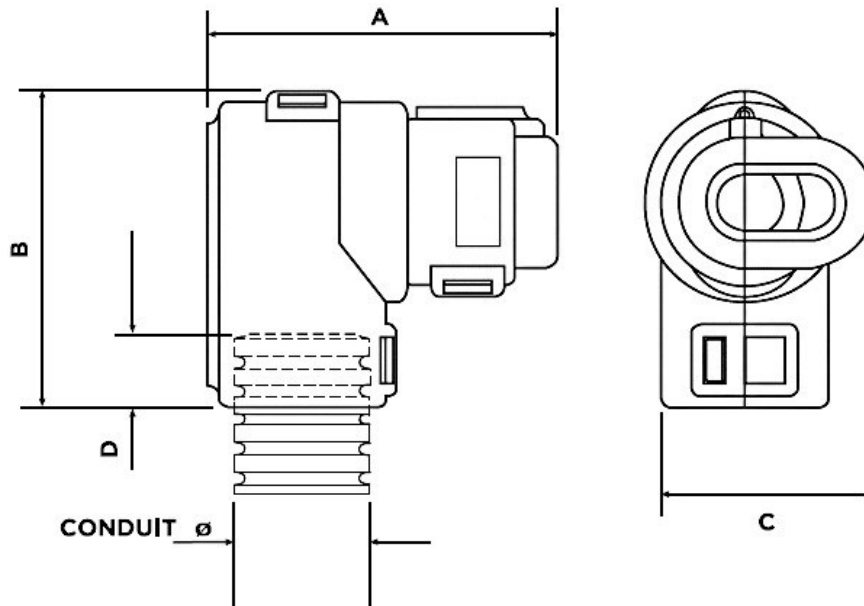
Interfaces

BOSCH Compact 90° Elbow Swivel Interface

Dimensional Data & Part Number Configuration

Part No. 90° Elbow Interface	A	B	C	D	Conduit Size	Conduit Size	BOSCH - Reference
					(NC)	(NW)	
TCI08-90-BC2	33	30	21	10	8	7.5	Compact 2-way
TCI08-90-BC3	33	30	27	10	8	7.5	Compact 3-way
TCI08-90-BC4	37	30	33	10	8	7.5	Compact 4-way
TCI12-90-BC2	33	30	21	10	12	10	Compact 2-way
TCI12-90-BC3	33	30	27	10	12	10	Compact 3-way
TCI12-90-BC4	37	30	33	10	12	10	Compact 4-way

Note : Dimensions are in mm



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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	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%)	

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.