




Sealed Fittings

Straight Connector - Sealed Connectors

Technical Characteristics

Conforms to	ADR Approved (with NC conduits only) 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	IP67 IP68 (2 bar for 30 minutes)	
UV protection	Very High (Black)	
Finish	Black (BL) only	
Application	Straight Compression type fittings incorporating fixed or swivel male threads to provide connection to knockouts and threaded entries. Flex sealed fittings provide high ingress protection against dust and water.	
Normal operating temperature range	Minimum Temperature	Maximum Temperature
Continuous (30,000 Hours)	- 40°C	+ 120°C
Short Term (3000 Hours)	- 45°C	+ 150°C
For use with - Conduit range	For use with all solid Conduits in the H-flex range	
Fire performance	Self Extinguishing Low smoke toxicity & Halogen Free	
Chemical resistance & Storage data	See page 6	
Type of material	Polyamide (Nylon) PA 66 - heat and UV stabilised	

Image



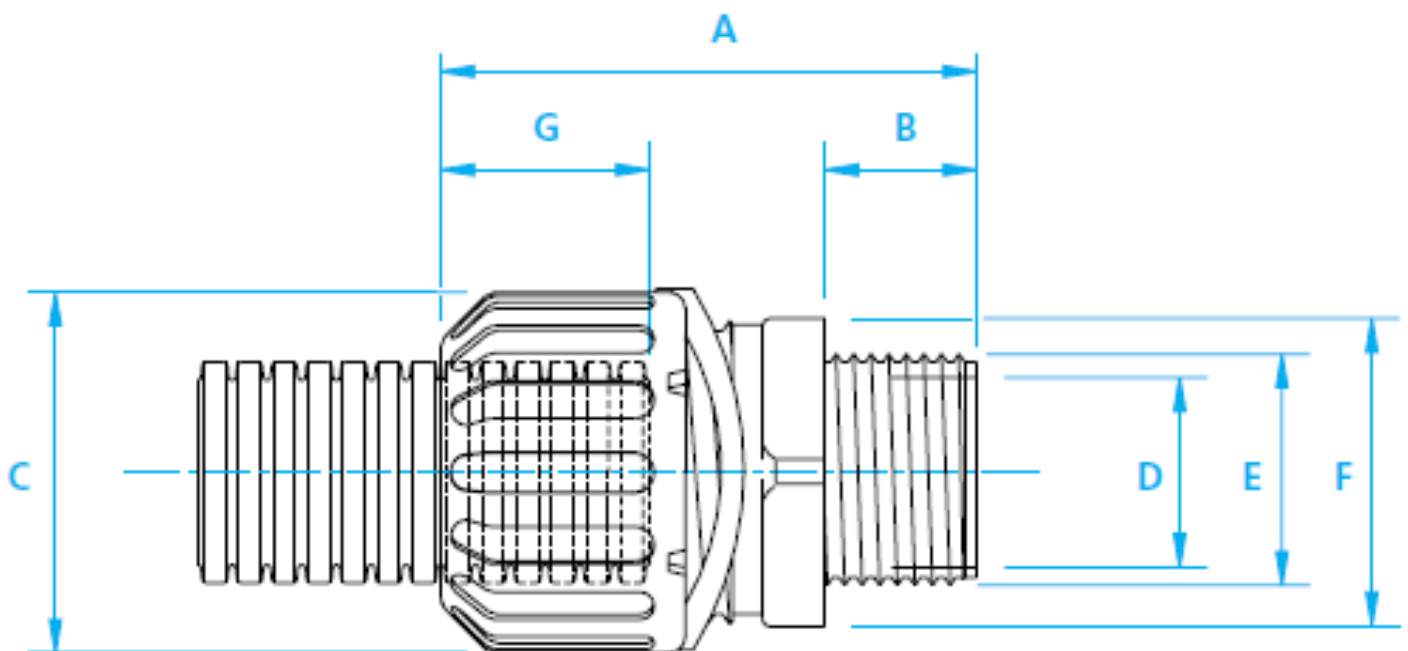
Note: Order fitting bodies, cap nuts and sealing and washers separately - See page 2, 3 & 4 for part numbers.

Sealed Fittings

Straight Connector - Sealed Connectors Metric Thread

Dimensional Data & Part Number Configuration

Part Number Fitting Body Metric Thread	Cap Nut	Sealing Bush	Thread Size (E)	Conduit Size		Dimensions (mm)					
				(NC)	(NW)	A	B	C	D	F	G
TAB12-M16	TCN07	TSRN07	M16x1.5	10	8.5	34	12	23	11	22	17
TAB12-M20	TCN07	TSRN07	M20x1.5	10	8.5	37	14	23	15	27	17
TAB12-M16	TCN09	TSRN09	M16x1.5	12	10	34	12	26	11	22	17
TAB12-M20	TCN09	TSRN09	M20x1.5	12	10	37	14	26	15	27	17
TAB16-M16	TCN11	TSRN11	M16x1.5	16	13	35	12	26	11	27	17
TAB16-M20	TCN11	TSRN11	M20x1.5	16	13	37	14	26	15	27	11
TAB20-M20	TCN16	TSRN16	M20x1.5	20	17	39	14	31	15	30	20
TAB25-M25	TCN21	TSRN21	M25x1.5	25	22	43	15	39	19	38	21
TAB25-M25	TCN28	TSRN28	M25x1.5	28	23	43	15	39	19	38	21
TAB32-M32	TCN32	TSRN29	M32x1.5	32	29	49	16	46	26	46	27
TAB40-M40	TCN36	TSRN36	M40x1.5	40	36	59	16	58	31	59	35
TAB50-M50	TCN48	TSRN48	M50x1.5	50	48	59	16	72	41	73	35

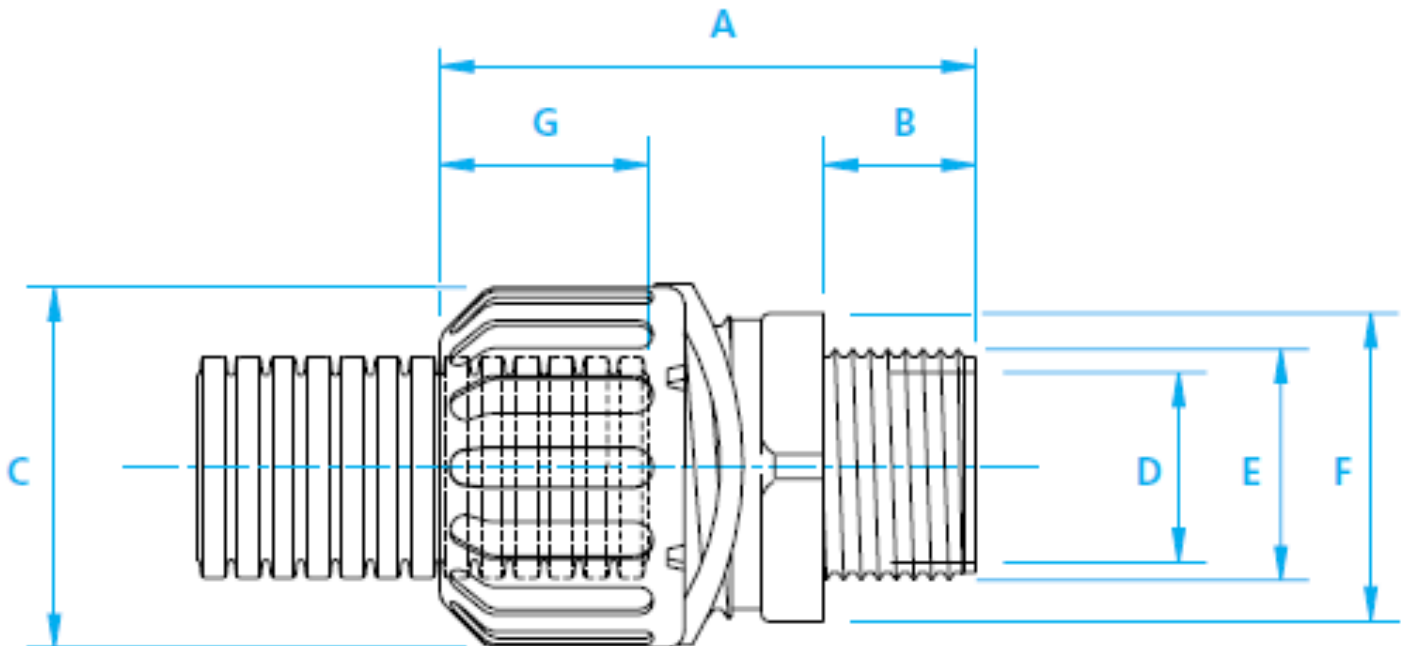


Sealed Fittings

Straight Connector - Sealed Connectors PG Thread

Dimensional Data & Part Number Configuration

Part Number Fitting Body PG Thread	Cap Nut	Sealing Bush	Thread Size (E)	Conduit Size		Dimensions (mm)					
				(NC)	(NW)	A	B	C	D	F	G
TAB12-PG09	TCN07	TSRN07	PG09	10	8.5	32	10	23	10	22	17
TAB12-PG11	TCN07	TSRN07	PG11	10	8.5	32	10	23	14	22	17
TAB12-PG13	TCN07	TSRN07	PG13	10	8.5	32	10	23	16	22	17
TAB12-PG09	TCN09	TSRN09	PG09	12	10	32	10	23	10	22	17
TAB12-PG11	TCN09	TSRN09	PG11	12	10	32	10	23	14	22	17
TAB12-PG13	TCN09	TSRN09	PG13	12	10	32	10	26	16	27	17
TAB16-PG09	TCN11	TSRN11	PG09	16	13	32	10	26	10	27	17
TAB16-PG11	TCN11	TSRN11	PG11	16	13	32	10	26	14	27	17
TAB16-PG13	TCN11	TSRN11	PG13	16	13	32	10	26	16	27	17
TAB20-PG16	TCN16	TSRN16	PG16	20	17	35	11	31	18	30	20
TAB25-PG21	TCN21	TSRN21	PG21	25	22	40	12	39	23	38	21
TAB25-PG21	TCN28	TSRN28	PG21	28	23	40	12	39	23	38	21
TAB32-PG29	TCN32	TSRN32	PG29	32	29	45	12	46	31	46	27
TAB40-PG36	TCN36	TSRN36	PG36	40	36	55	12	58	38	59	35
TAB50-PG48	TCN48	TSRN48	PG48	50	48	55	12	72	50	73	35

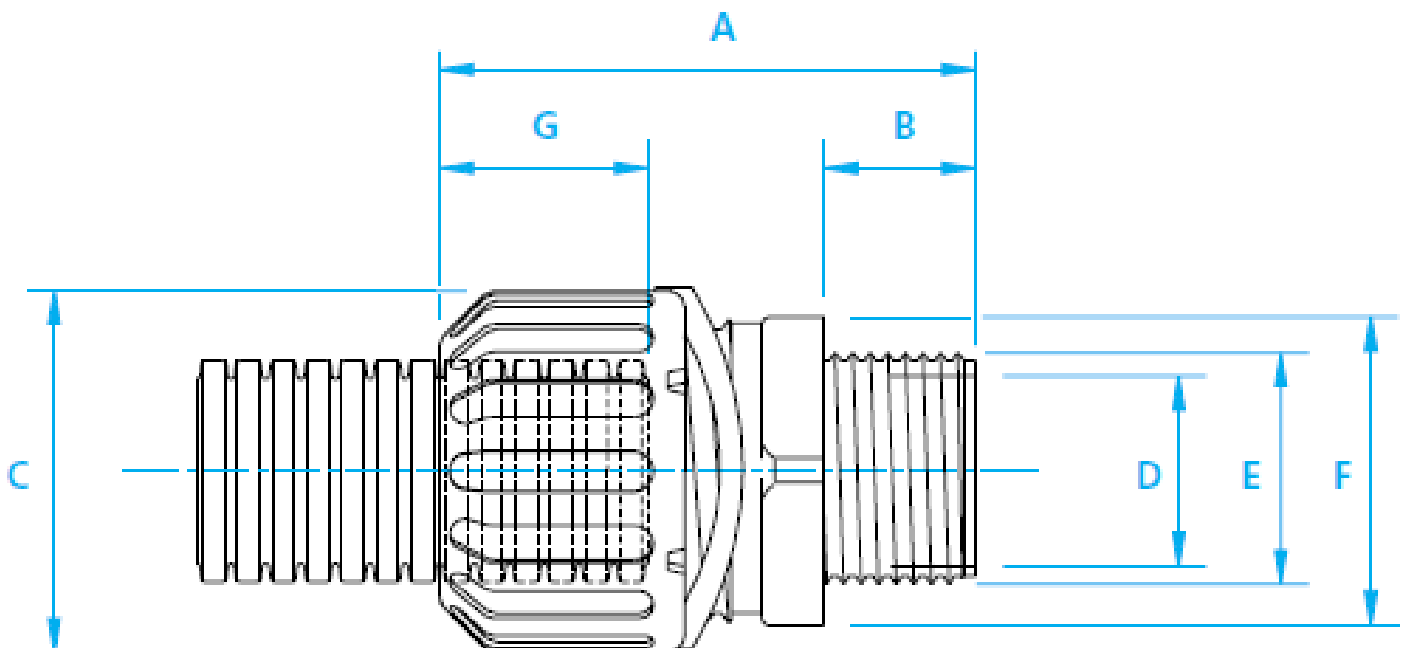


Sealed Fittings

ABS Straight Connector - Sealed Connectors Metric Thread

Dimensional Data & Part Number Configuration

Part Number Swivel Fitting Body (Metric)	Cap Nut	Sealing Bush	Thread Size (E)	Conduit Size		Dimensions (mm)					
				(NC)	(NW)	A	B	C	D	F (A/F)	G
TABS12-M16	TCN07	TSRN07	M16x1.5	10	8.5	44.5	11	23	12	24	17
TABS12-M20	TCN07	TSRN07	M20x1.5	10	8.5	44.5	11	23	12	24	17
TABS12-M16	TCN09	TSRN09	M16x1.5	12	10	44.5	11	23	12	24	17
TABS12-M20	TCN09	TSRN09	M20x1.5	12	10	44.5	11	23	12	24	17
TABS16-M16	TCN11	TSRN11	M16x1.5	16	13	46.5	12	26	12	30	20
TABS16-M20	TCN11	TSRN11	M20x1.5	16	13	44.5	11	26	12	30	20
TABS20-M20	TCN16	TSRN16	M20x1.5	20	17	47	11	31	16	33	22.5
TABS25-M25	TCN21	TSRN21	M25x1.5	25	22	52	12	39	19	42.5	22.5
TABS25-M25	TCN28	TSRN28	M25x1.5	28	23	52	12	39	19	42.5	22.5
TABS32-M32	TCN32	TSRN29	M32x1.5	32	29	58.5	17	46.5	26.5	51	26

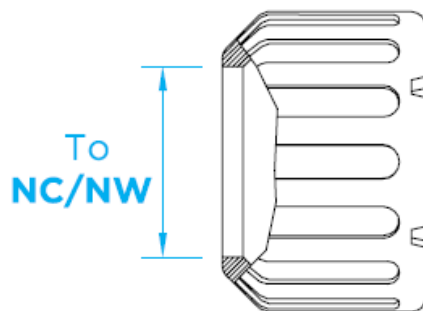


Sealed Fittings

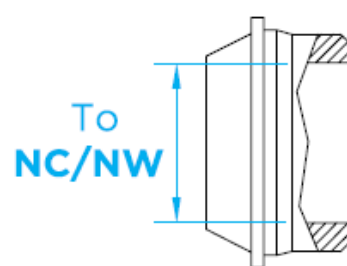
Straight Connector - Sealed Connectors Metric Thread

Reducing Options & Part Number Configuration

Cap Nut Part Number	Seal Part Number	From Conduit Size		To Conduit Size	
		NC	NW	NC	NW
TCN09-08	TRSB12-08	12	10	8	7.5
TCN11-08	TRSB16-08	16	13	8	7.5
TCN11-12	TRSB16-12	16	13	12	10
TCN16-08	TRSB20-08	20	17	8	7.5
TCN16-12	TRSB20-12	20	17	12	10
TCN16-16	TRSB20-16	20	17	16	13
TCN21-12	TRSB25-12	25	22	12	10
TCN21-16	TRSB25-16	25	22	16	13
TCN21-20	TRSB25-20	25	22	20	17
TCN21-12	TRSB28-12	28	23	12	10
TCN21-16	TRSB28-16	28	23	16	13
TCN21-20	TRSB28-20	28	23	20	17
TCN32-20	TRSB32-20	32	29	20	17
TCN32-25	TRSB32-25	32	29	25	22
TCN32-28	TRSB32-28	32	29	28	23



CAP NUT



SEAL

Cap Nuts & Bushes ordered separately

Sealed Fittings

Straight Connector - Sealed Connectors

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. 18°C to 30°C	Installation temp. >18°C	Rel. humidity >30%
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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.