



Connect and Protect

TransTechnical Solutions

Technical Data Sheet

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
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Approvals and Standards



Degree of mechanical protection	High
Degree of protection	IP67 IP68 (2 Bar for 30 mins)

UV protection	Very High (Black)
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Finish	Black (BL) only
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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
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Normal operating temperature range	Minimum Temperature	Maximum Temperature
Continuous (30 000 hours)	- 40°C	+120°C
Short Term (3000 hours)	- 45°C	+150°C

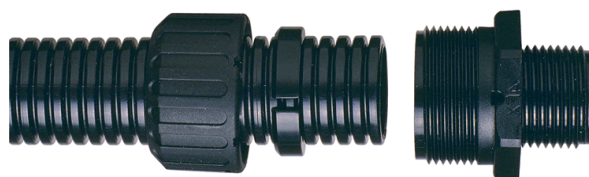
For use with - Conduit Series	For use with all solid Conduits in the H-flex range
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Fire performance	Self Extinguishing, Low smoke & Halogen Free
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Chemical resistance & Storage data	See page 6
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Type of material	Polyamide (Nylon) PA 66 - heat and UV stabilised
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Image



011 974 9671

sales@ttsafrica.com

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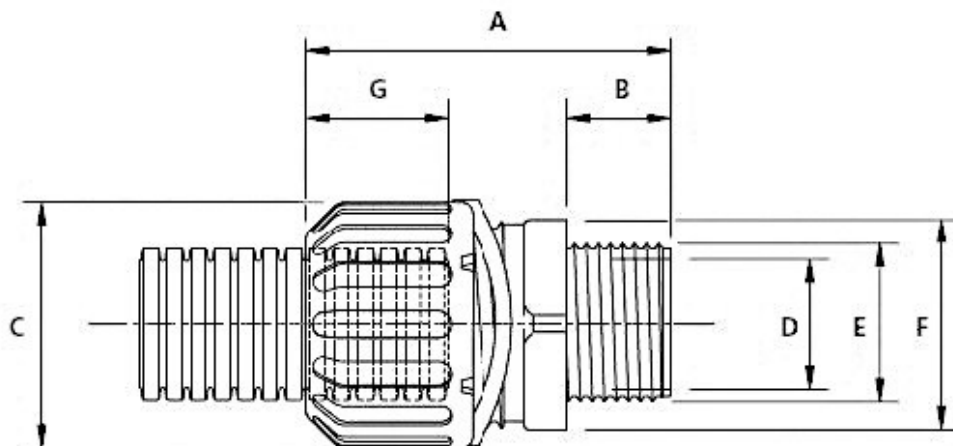
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Sealed Fittings

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



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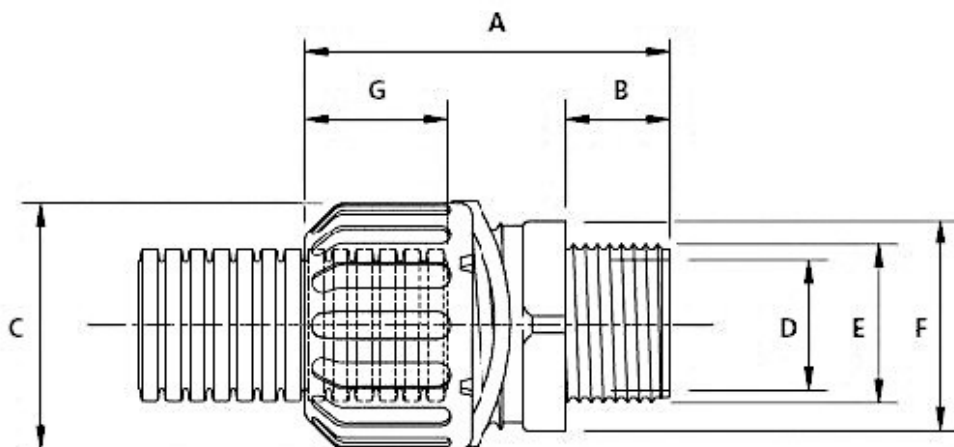
Technical Data Sheet

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



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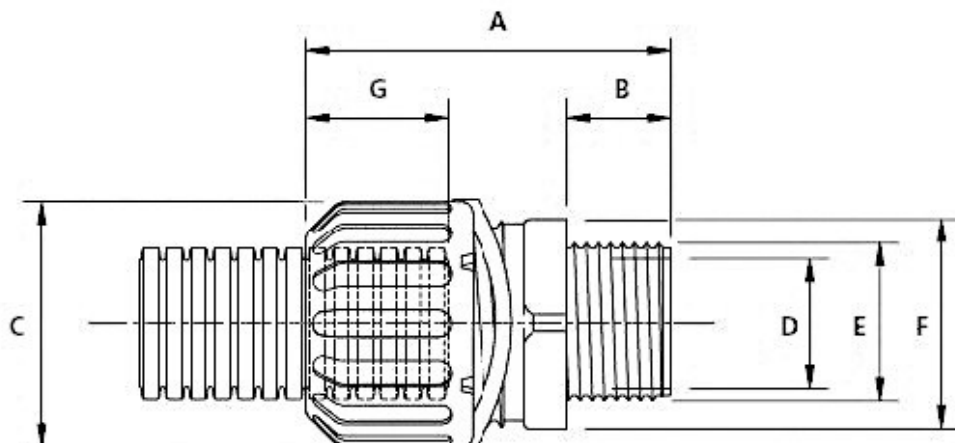
Technical Data Sheet

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





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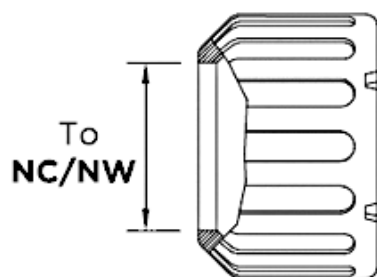
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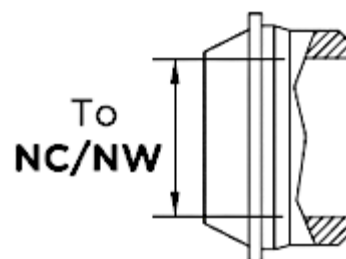
Straight Connector - Sealed Connectors Metric Thread

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

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Chemical Resistance Chart

Key:		Astm No.1		Diesel oil		Methyl Bromide		Sulphur Dioxide (Gas)
Suitable :		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
Limited Suitability :		Aniline		Ethyl Ethanoate		Paraffin oil		Trichloroethylene
		Benzaldehyde		Freon 32		Petrol		Turpentine
		Benzene		Hydrochloric Acid (10%)		Phenol		Vegetable Oil
Unsuitable :		Carbon tetrachloride		Hydrochloric Acid (36%)		Sea Water		Vinyl Acetate
		Chlorine water		Hydrogen Peroxide (35%)		Silver Nitrate		Water
		Chloroform		Hydrogen Peroxide (87%)		Skydrol		White Spirit
Not Tested :		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.

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