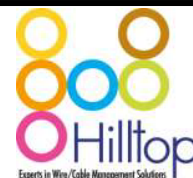


Sealed Fittings

Straight Fitting

Hilltop Products Ltd
Parkside Business Park
Kirkstead Way
Golborne
Warrington
WA3 3PY

Tel: 01942 723101
Fax: 01942 273817
Email: sales@hilltop-products.co.uk
www.hilltop-products.co.uk



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. Harnessflex 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 Harnessflex range	
Fire performance	Self Extinguishing Low smoke toxicity & Halogen Free	
Chemical resistance & Storage data	Click or See page 6	
Type of material	Polyamide (Nylon) PA 66 - heat and UV stabilised	

Image



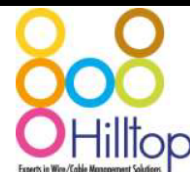
Note: Order fitting bodies, cap nuts and sealing and washers separately - See page 2, 3 & 4 for part numbers.

Sealed Fittings

Straight Fitting

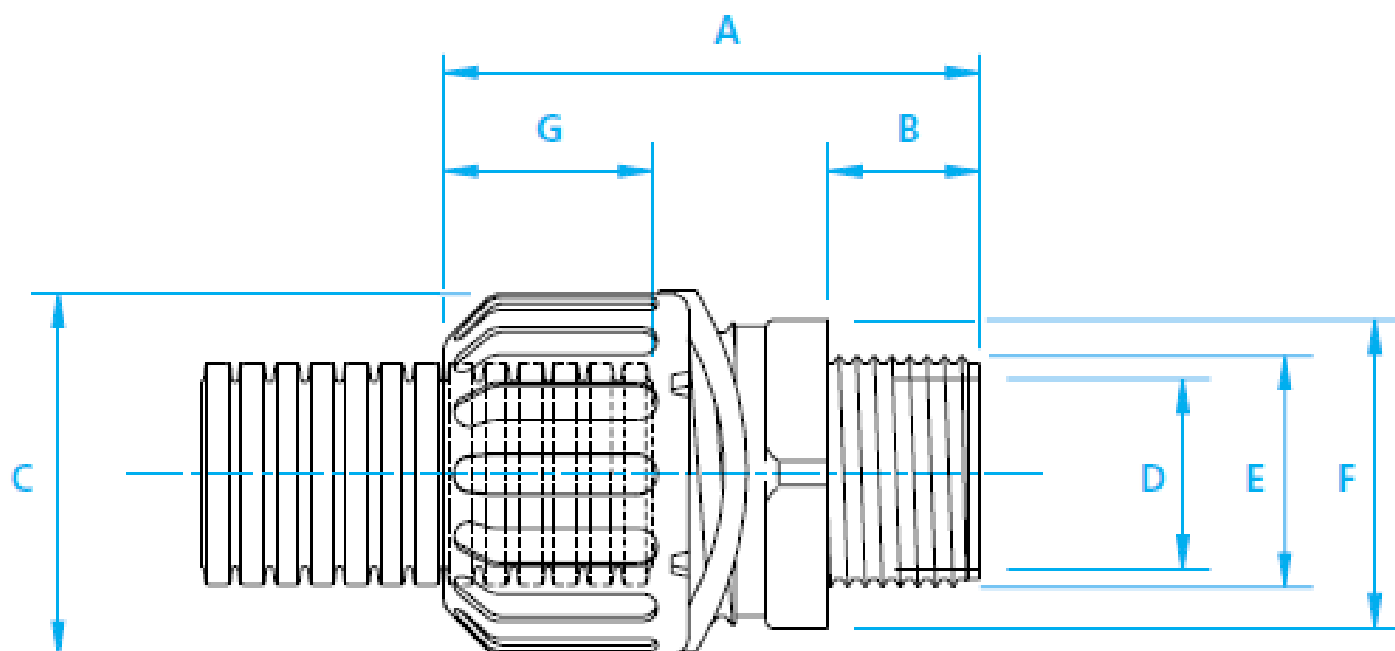
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Dimensional Data & Part Number Configuration

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
AB12-M16	CN07	SRN07	M16x1.5	10	8.5	34	12	23	11	22	17
AB12-M20	CN07	SRN07	M20x1.5	10	8.5	37	14	23	15	27	17
AB12-M16	CN09	SRN09	M16x1.5	12	10	34	12	26	11	22	17
AB12-M20	CN09	SRN09	M20x1.5	12	10	37	14	26	15	27	17
AB16-M16	CN11	SRN11	M16x1.5	16	13	35	12	26	11	27	17
AB16-M20	CN11	SRN11	M20x1.5	16	13	37	14	26	15	27	11
AB20-M20	CN16	SRN16	M20x1.5	20	17	39	14	31	15	30	20
AB25-M25	CN21	SRN21	M25x1.5	25	22	43	15	39	19	38	21
AB25-M25	CN28	SRN28	M25x1.5	28	23	43	15	39	19	38	21
AB32-M32	CN32	SRN29	M32x1.5	32	29	49	16	46	26	46	27
AB40-M40	CN36	SRN36	M40x1.5	40	36	59	16	58	31	59	35
AB50-M50	CN48	SRN48	M50x1.5	50	48	59	16	72	41	73	35



Sealed Fittings

Straight Fitting

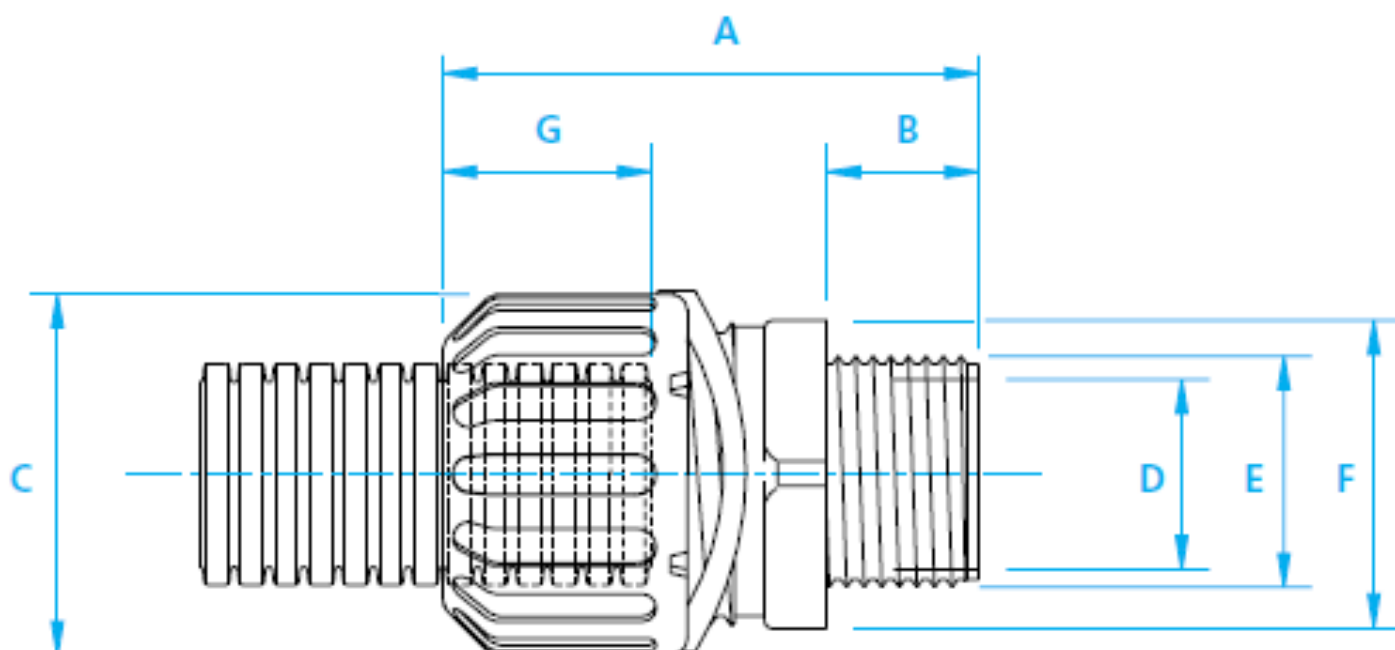
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Dimensional Data & Part Number Configuration

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
AB12-PG09	CN07	SRN07	PG09	10	8.5	32	10	23	10	22	17
AB12-PG11	CN07	SRN07	PG11	10	8.5	32	10	23	14	22	17
AB12-PG13	CN07	SRN07	PG13	10	8.5	32	10	23	16	22	17
AB12-PG09	CN09	SRN09	PG09	12	10	32	10	23	10	22	17
AB12-PG11	CN09	SRN09	PG11	12	10	32	10	23	14	22	17
AB12-PG13	CN09	SRN09	PG13	12	10	32	10	26	16	27	17
AB16-PG09	CN11	SRN11	PG09	16	13	32	10	26	10	27	17
AB16-PG11	CN11	SRN11	PG11	16	13	32	10	26	14	27	17
AB16-PG13	CN11	SRN11	PG13	16	13	32	10	26	16	27	17
AB20-PG16	CN16	SRN16	PG16	20	17	35	11	31	18	30	20
AB25-PG21	CN21	SRN21	PG21	25	22	40	12	39	23	38	21
AB25-PG21	CN28	SRN28	PG21	28	23	40	12	39	23	38	21
AB32-PG29	CN32	SRN32	PG29	32	29	45	12	46	31	46	27
AB40-PG36	CN36	SRN36	PG36	40	36	55	12	58	38	59	35
AB50-PG48	CN48	SRN48	PG48	50	48	55	12	72	50	73	35

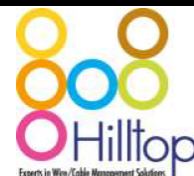


Sealed Fittings

Straight Fitting

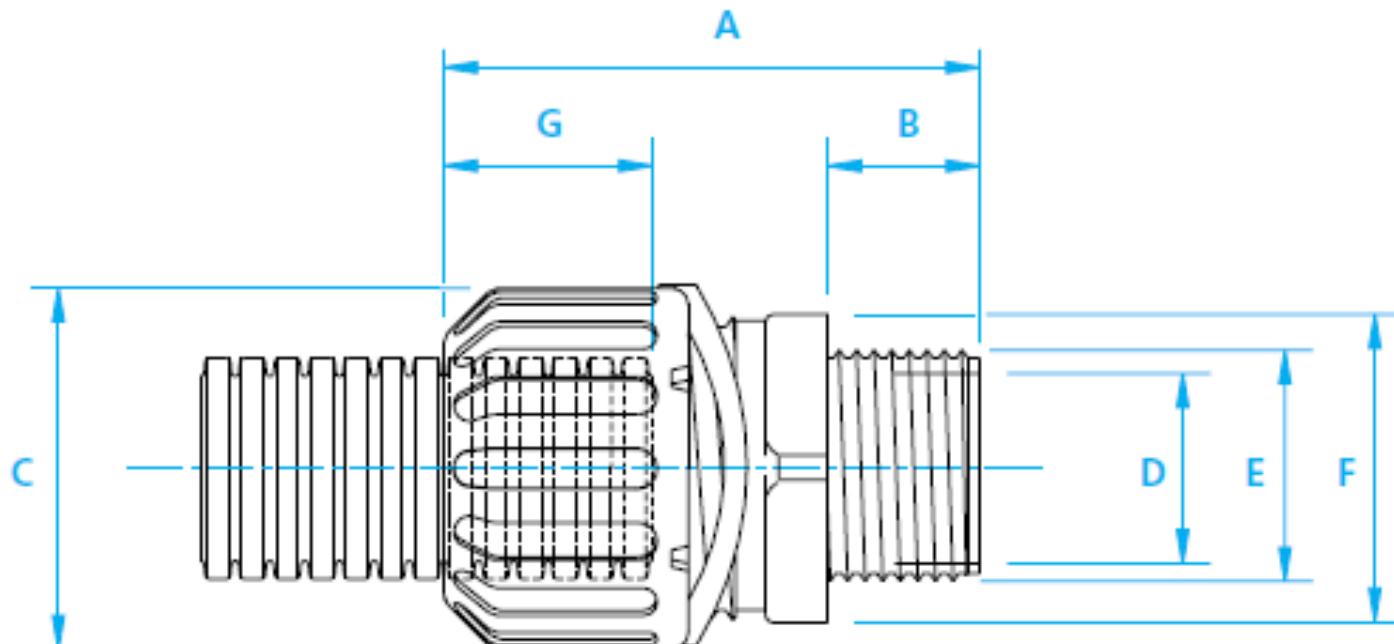
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Dimensional Data & Part Number Configuration

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
ABS12-M16	CN07	SRN07	M16x1.5	10	8.5	44.5	11	23	12	24	17
ABS12-M20	CN07	SRN07	M20x1.5	10	8.5	44.5	11	23	12	24	17
ABS12-M16	CN09	SRN09	M16x1.5	12	10	44.5	11	23	12	24	17
ABS12-M20	CN09	SRN09	M20x1.5	12	10	44.5	11	23	12	24	17
ABS16-M16	CN11	SRN11	M16x1.5	16	13	46.5	12	26	12	30	20
ABS16-M20	CN11	SRN11	M20x1.5	16	13	44.5	11	26	12	30	20
ABS20-M20	CN16	SRN16	M20x1.5	20	17	47	11	31	16	33	22.5
ABS25-M25	CN21	SRN21	M25x1.5	25	22	52	12	39	19	42.5	22.5
ABS25-M25	CN28	SRN28	M25x1.5	28	23	52	12	39	19	42.5	22.5
ABS32-M32	CN32	SRN29	M32x1.5	32	29	58.5	17	46.5	26.5	51	26



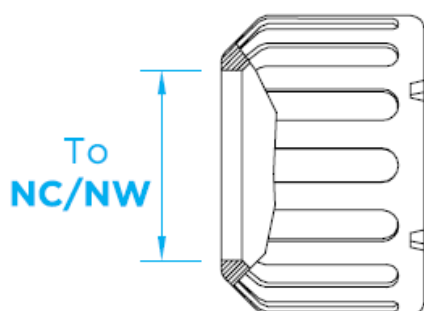
Sealed Fittings

Straight Fitting

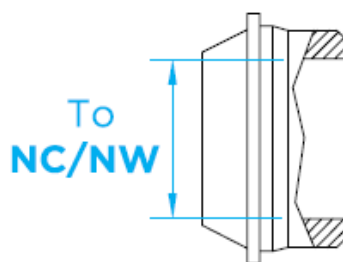
Harnessflex
SPECIALIST CONDUIT SYSTEMS

Reducing Options & Part Number Configuration

Cap Nut Part Number	Seal Part Number	From Conduit Size		To Conduit Size	
		NC	NW	NC	NW
CN09-08	RSB12-08	12	10	8	7.5
CN11-08	RSB16-08	16	13	8	7.5
CN11-12	RSB16-12	16	13	12	10
CN16-08	RSB20-08	20	17	8	7.5
CN16-12	RSB20-12	20	17	12	10
CN16-16	RSB20-16	20	17	16	13
CN21-12	RSB25-12	25	22	12	10
CN21-16	RSB25-16	25	22	16	13
CN21-20	RSB25-20	25	22	20	17
CN21-12	RSB28-12	28	23	12	10
CN21-16	RSB28-16	28	23	16	13
CN21-20	RSB28-20	28	23	20	17
CN32-20	RSB32-20	32	29	20	17
CN32-25	RSB32-25	32	29	25	22
CN32-28	RSB32-28	32	29	28	23



CAP NUT



SEAL

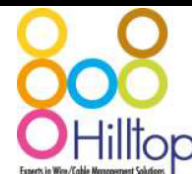
Cap Nuts & Bushes ordered separately

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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%)	

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.