

Sealed Fittings

90° Elbow Fitting



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	  
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Degree of mechanical protection	High
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Degree of protection	IP67 IP68 (2 bar for 30 minutes)
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UV protection	Very High (Black)
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Finish	Black (BL) only
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Application	90° 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.
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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 range	For use with all solid Conduits in the Harnessflex range
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Fire performance	Self Extinguishing Low smoke toxicity & Halogen Free
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Chemical resistance & Storage data	Click or See page 5
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Type of material	Polyamide (Nylon) PA 66 - heat and UV stabilised
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Note: Order fitting bodies, cap nuts and sealing and washers separately - See page 2 & 3 for part numbers.

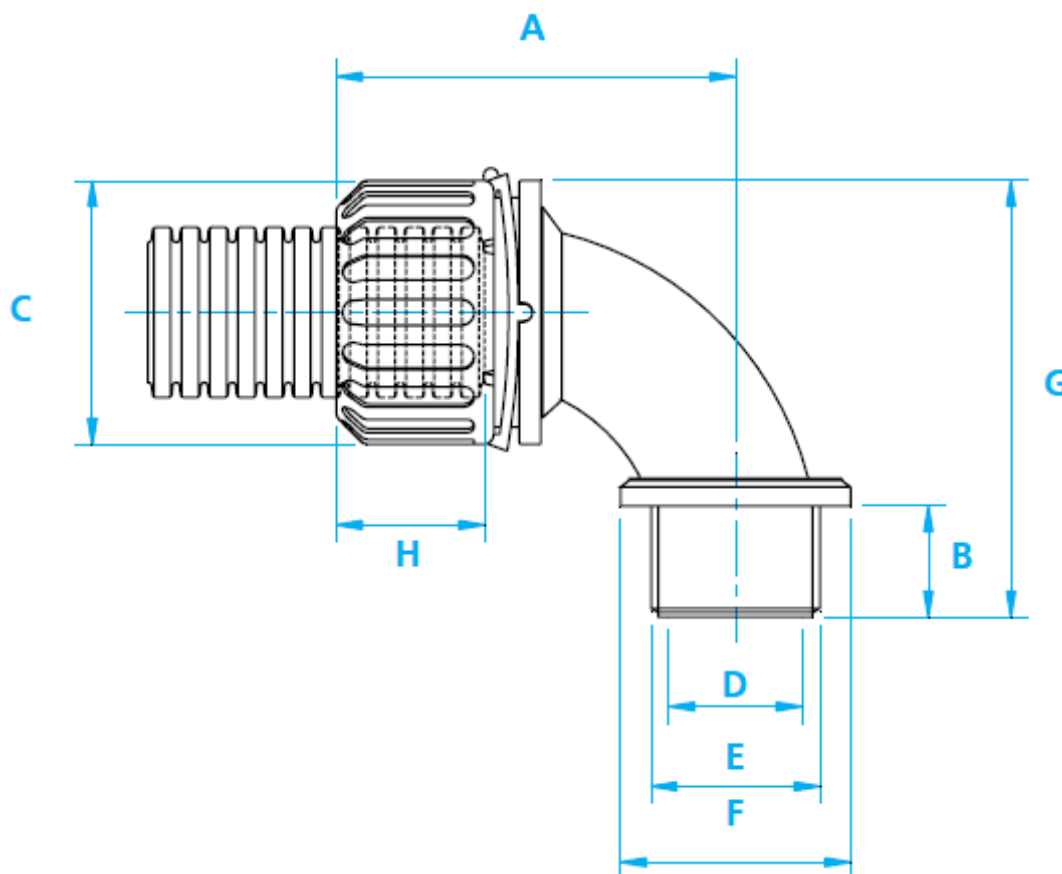
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Dimensional Data & Part Number Configuration

Part Number Fitting Body Metric Thread	Cap Nut	Sealing Bush	Face Sealing Washer	Thread Size (E)	Conduit Size		Dimensions (mm)						
					(NC)	(NW)	A	B	C	D	F	G	H
AB12-M16-90	CN07	SRN07	SWM16	M16x1.5	10	8.5	46	12	23	11	19	46	17
AB12-M16-90	CN09	SRN09	SWM16	M16x1.5	12	10	46	12	23	11	19	46	17
AB16-M16-90	CN11	SRN11	SWM16	M16x1.5	16	13	46	12	26	15	22	48	17
AB16-M20-90	CN11	SRN11	SWM20	M20x1.5	16	13	46	13	26	15	27	49	17
AB20-M20-90	CN16	SRN16	SWM20	M20x1.5	20	17	47	13	31	15	27	51	20
AB25-M25-90	CN21	SRN21	SWM25	M25x1.5	25	22	56	15	39	20	33	62	21
AB25-M25-90	CN28	SRN28	SWM25	M25x1.5	28	23	56	15	39	20	33	62	21
AB32-M32-90	CN32	SRN29	SWM32	M32x1.5	32	29	66	16	46	26	40	76	27
AB40-M40-90	CN36	SRN36	SWM40	M40x1.5	40	36	77	16	59	34	48	93	35
AB50-M50-90	CN48	SRN48	SWM50	M50x1.5	50	48	94	16	72	40	59	114	35



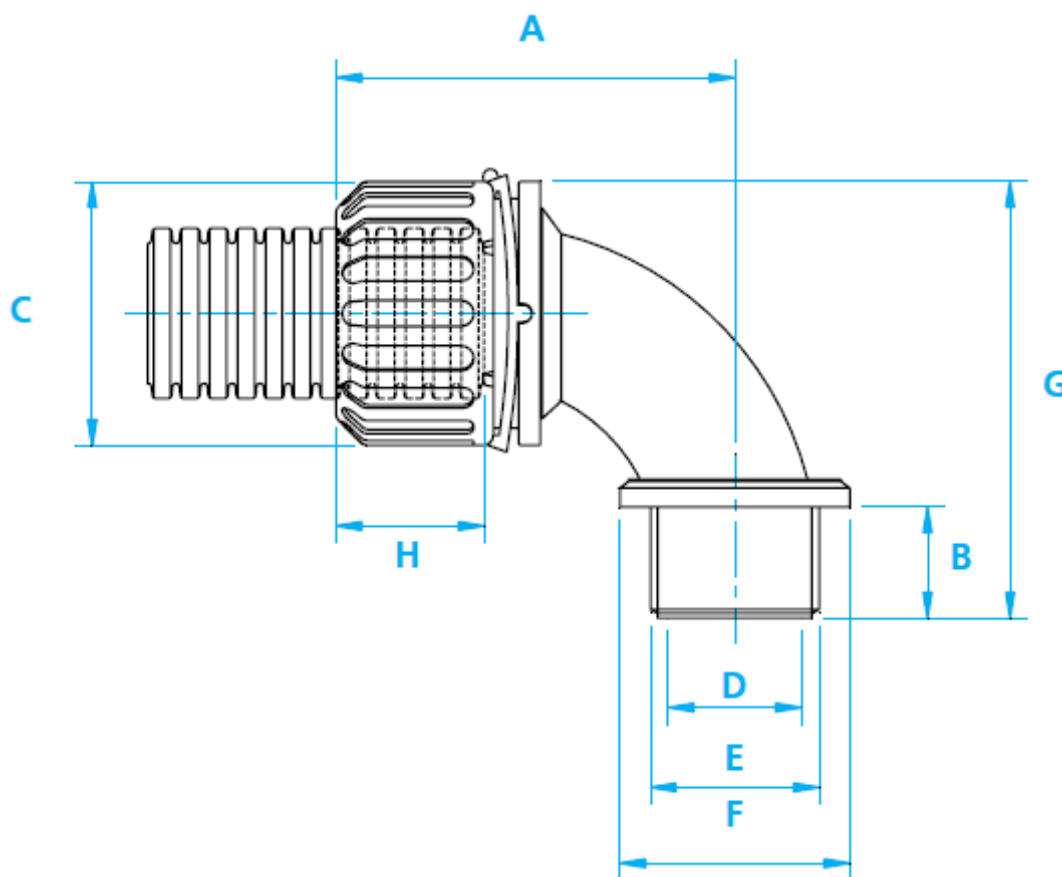
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Dimensional Data & Part Number Configuration

Part Number Fitting Body PG Thread	Cap Nut	Sealing Bush	Face Sealing Washer	Thread Size (E)	Conduit Size		Dimensions (mm)						
					(NC)	(NW)	A	B	C	D	F	G	H
AB12-PG09-90	CN07	SRN07	SWMPG09	PG09	10	8.5	32	10	23	10	22	17	
AB12-PG09-90	CN09	SRN09	SWMPG09	PG09	12	10	32	10	23	10	22	17	
AB16-PG11-90	CN11	SRN11	SWMPG11	PG11	16	13	32	10	26	14	27	17	
AB16-PG13-90	CN11	SRN11	SWMPG13	PG13	16	13	32	10	26	16	27	17	
AB20-PG16-90	CN16	SRN16	SWMPG16	PG16	20	17	35	11	31	18	30	20	
AB25-PG21-90	CN21	SRN21	SWMPG21	PG21	25	22	40	12	39	23	38	21	
AB25-PG21-90	CN28	SRN28	SWMPG21	PG21	28	23	40	12	39	23	38	21	
AB32-PG29-90	CN32	SRN32	SWMPG29	PG29	32	29	45	12	46	31	46	27	
AB40-PG36-90	CN36	SRN36	SWMPG36	PG36	40	36	55	12	58	38	59	35	
AB50-PG48-90	CN48	SRN48	SWMPG48	PG48	50	48	55	12	72	50	73	35	



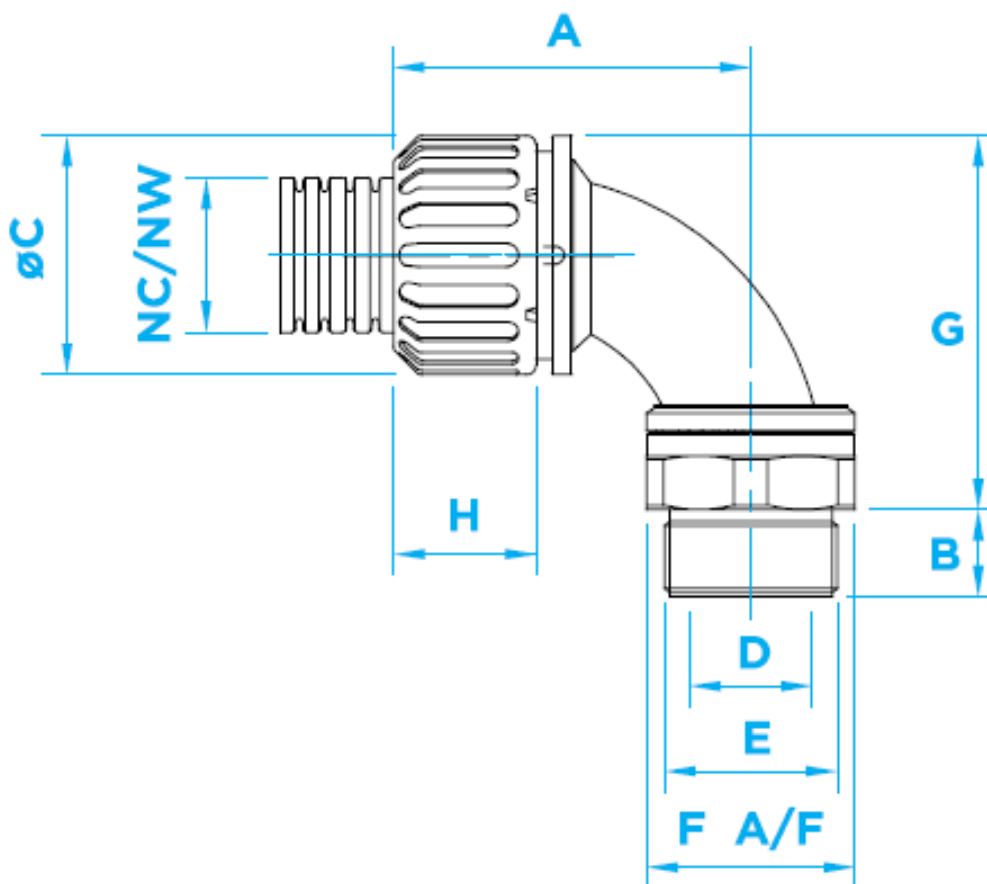
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Dimensional Data & Part Number Configuration

Part Number Fitting Body Metric Thread	Cap Nut	Sealing Bush	Face Sealing Washer	Thread Size (E)	Conduit Size		Dimensions (mm)						
					(NC)	(NW)	A	B	C	D	F (A/F)	G	H
ABS12-M16-90	CN07	SRN07	SWM16	M16x1.5	10	8.5	45	12	23	12	24	45	17
ABS16-M16-90	CN11	SRN11	SWM16	M16x1.5	16	13	46	12	26	12	24	46	17
ABS20-M20-90	CN16	SRN16	SWM20	M20x1.5	20	17	48	11	31	16	27	48	20
ABS25-M25-90	CN21	SRN21	SWM25	M25x1.5	25	22	56	12	39	19	34	59	21
ABS32-M32-90	CN32	SRN29	SWM32	M32x1.5	32	29	66	17	46	26	42	71	27
ABS40-M40-90	CN36	SRN36	SWM40	M40x1.5	40	36	76	18	59	35	54	90	35
ABS50-M50-90	CN48	SRN48	SWM50	M50x1.5	50	48	92	16	72	45	70	112	35



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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.