




# Sealed Fittings

## X-Piece 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	
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	Symmetrical, 4 Junction compression type fittings providing a variety of conduit size configurations. Sealed fittings can be used with all Harnessflex conduits	
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 <a href="#">Harnessflex</a> range	
Fire performance	Self Extinguishing Low smoke toxicity & Halogen Free	
Chemical resistance & Storage data	Click or See page <a href="#">4</a>	
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 for part numbers.**

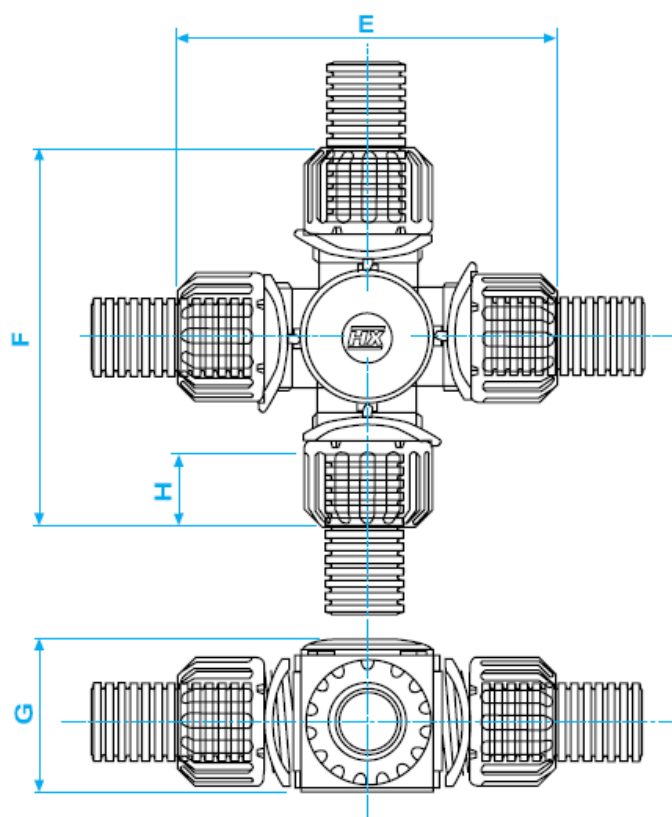
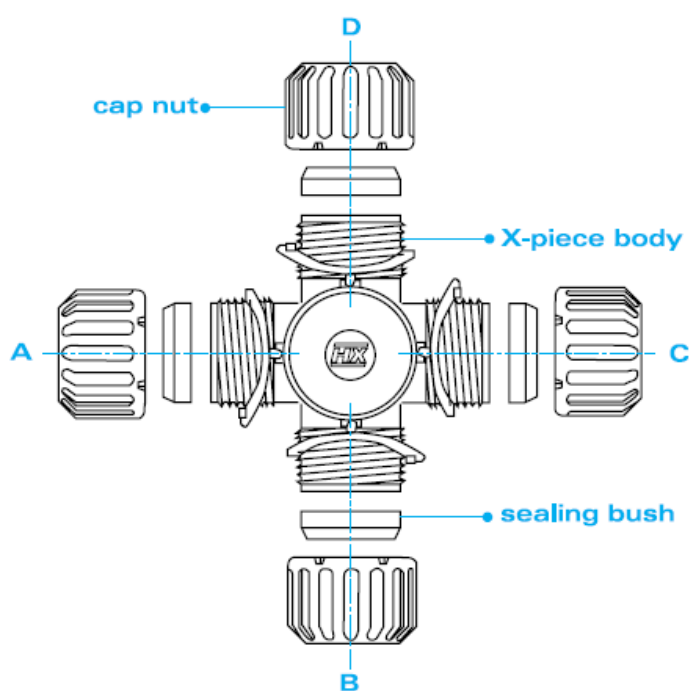
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### Dimensional Data & Part Number Configuration

Part Number X-Piece	Cap Nut	Sealing Bush	Conduit Size (NC)				Conduit Size (NW)				Dimensions (mm)			
			A	B	C	D	A	B	C	D	E	F	G	H
XP20	CN16	SRN16	20	20	20	20	17	17	17	17	80	80	35	20



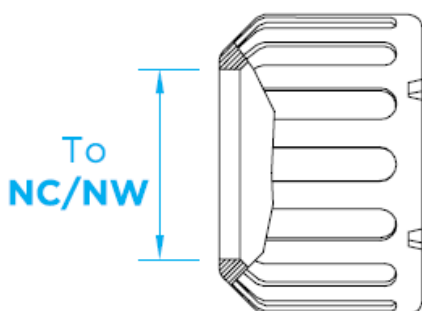
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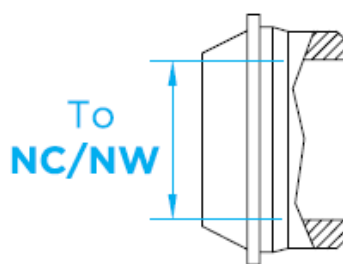


### Dimensional Data & Part Number Configuration

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

<b>Key:</b>  Suitable : <span style="color: green;">●</span> Limited Suitability : <span style="color: yellow;">●</span> Unsuitable : <span style="color: red;">●</span> Not Tested : <span style="color: black;">●</span>	<span style="color: green;">●</span> Astm No.1	<span style="color: green;">●</span> Diesel oil	<span style="color: red;">●</span> Methyl Bromide	<span style="color: red;">●</span> Sulphur Dioxide (Gas)
	<span style="color: green;">●</span> Astm No.2	<span style="color: green;">●</span> Diethylamine	<span style="color: green;">●</span> MEK	<span style="color: red;">●</span> Sulphuric Acid (10%)
	<span style="color: green;">●</span> Astm No.3	<span style="color: green;">●</span> Ethanol	<span style="color: red;">●</span> Nitric Acid (10%)	<span style="color: red;">●</span> Sulphuric Acid (70%)
	<span style="color: yellow;">●</span> Acetic Acid (10%)	<span style="color: green;">●</span> Ether	<span style="color: red;">●</span> Nitric Acid (70%)	<span style="color: green;">●</span> Toluene
	<span style="color: green;">●</span> Acetone	<span style="color: green;">●</span> Ethylamine	<span style="color: yellow;">●</span> Oxalic Acid	<span style="color: green;">●</span> Transformer Oil
	<span style="color: yellow;">●</span> Aluminium Chloride	<span style="color: green;">●</span> Ethylene Glycol	<span style="color: red;">●</span> Ozone (Gas)	<span style="color: green;">●</span> 1,1,1-Trichloroethane
	<span style="color: yellow;">●</span> Aniline	<span style="color: yellow;">●</span> Ethyl Ethanoate	<span style="color: green;">●</span> Paraffin oil	<span style="color: yellow;">●</span> Trichloroethylene
	<span style="color: yellow;">●</span> Benzaldehyde	<span style="color: green;">●</span> Freon 32	<span style="color: green;">●</span> Petrol	<span style="color: green;">●</span> Turpentine
	<span style="color: red;">●</span> Benzene	<span style="color: red;">●</span> Hydrochloric Acid (10%)	<span style="color: red;">●</span> Phenol	<span style="color: green;">●</span> Vegetable Oil
	<span style="color: green;">●</span> Carbon tetrachloride	<span style="color: red;">●</span> Hydrochloric Acid (36%)	<span style="color: green;">●</span> Sea Water	<span style="color: yellow;">●</span> Vinyl Acetate
	<span style="color: red;">●</span> Chlorine water	<span style="color: yellow;">●</span> Hydrogen Peroxide (35%)	<span style="color: green;">●</span> Silver Nitrate	<span style="color: green;">●</span> Water
	<span style="color: red;">●</span> Chloroform	<span style="color: red;">●</span> Hydrogen Peroxide (87%)	<span style="color: green;">●</span> Skydrol	<span style="color: green;">●</span> White Spirit
	<span style="color: green;">●</span> Citric Acid	<span style="color: yellow;">●</span> Lactic Acid	<span style="color: green;">●</span> Sodium Chloride	<span style="color: red;">●</span> Zinc Chloride
	<span style="color: yellow;">●</span> Copper Sulphate	<span style="color: green;">●</span> Lubricating oil	<span style="color: green;">●</span> Sodium Hydroxide (10%)	
	<span style="color: red;">●</span> Cresol	<span style="color: yellow;">●</span> Methanol	<span style="color: green;">●</span> 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:

<b>Storage temp.</b>	<b>Installation temp.</b>	<b>Rel. humidity</b>
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.