

External Hinged Interfaces

Type EPS - Hinged Elbow



Technical Characteristics

| | | |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Conforms to | 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 | Medium | |
| Degree of protection | IP40 - Hinged fittings | |
| UV protection | Very High (Black) | |
| Finish | Black (BL) only | |
| Application | One Piece elbow joiner hinged fittings allow a variety of conduit size variations. These fittings are designed to snap together over all types of slit and un-slit conduit thus maintaining maximum conduit bore. Can be used as a reducer as well as an enlarger. | |
| Normal operating temperature range | Minimum Temperature | Maximum Temperature |
| | - 40°C | +120°C |
| For use with - Conduit range | For use with all Conduits in the Harnessflex range | |
| Fire performance | Self Extinguishing Low smoke toxicity & Halogen Free | |
| Chemical resistance & Storage data | Click or See page 3 | |
| Type of material | Polyamide (Nylon) PA 66 - heat and UV stabilised | |

Image



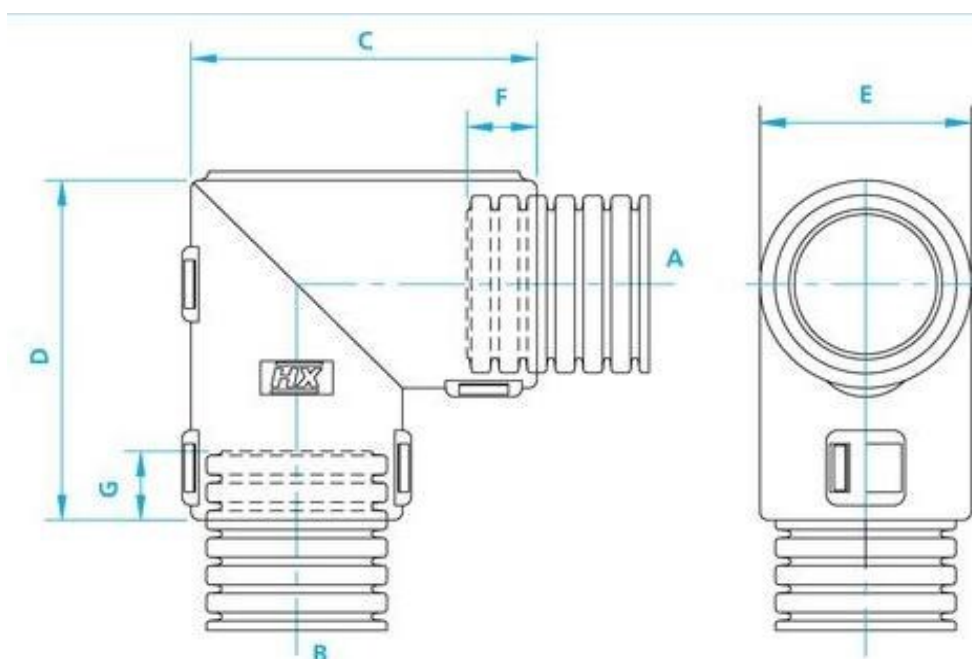
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Dimensional Data & Part Number Configuration

| Part Number | Conduit Sizes | | | | Nominal Dimensions (mm) | | | | |
|-------------|---------------|----|------|-----|-------------------------|----|----|----|----|
| | (NC) | | (NW) | | C | D | E | F | G |
| | A | B | A | B | | | | | |
| EPS08S08 | 08 | 08 | 7.5 | 7.5 | 38 | 29 | 20 | 10 | 10 |
| EPS12S12 | 12 | 12 | 10 | 10 | 38 | 29 | 20 | 10 | 10 |
| EPS0820 | 08 | 20 | 7.5 | 17 | 41 | 41 | 25 | 10 | 12 |
| EPS1608 | 16 | 08 | 10 | 7.5 | 34 | 34 | 21 | 10 | 10 |
| EPS1612 | 16 | 12 | 13 | 10 | 34 | 34 | 21 | 10 | 10 |
| EPS1616 | 16 | 16 | 13 | 13 | 34 | 34 | 21 | 10 | 10 |
| EPS2008 | 20 | 08 | 17 | 7.5 | 41 | 39 | 26 | 12 | 10 |
| EPS2012 | 20 | 12 | 17 | 10 | 41 | 41 | 26 | 10 | 10 |
| EPS2016 | 20 | 16 | 17 | 13 | 41 | 41 | 26 | 12 | 10 |
| EPS2020 | 20 | 20 | 17 | 17 | 41 | 41 | 26 | 12 | 12 |
| EPS2520 | 25 | 20 | 22 | 17 | 48 | 48 | 33 | 13 | 12 |
| EPS2525 | 25 | 25 | 22 | 22 | 48 | 48 | 33 | 13 | 13 |
| EPS2812 | 28 | 12 | 23 | 10 | 48 | 48 | 33 | 13 | 10 |
| EPS2816 | 28 | 16 | 23 | 13 | 48 | 48 | 33 | 13 | 10 |
| EPS2820 | 28 | 20 | 23 | 17 | 48 | 48 | 33 | 13 | 12 |
| EPS2825 | 28 | 25 | 23 | 22 | 48 | 48 | 33 | 13 | 13 |
| EPS2828 | 28 | 28 | 23 | 23 | 48 | 48 | 33 | 13 | 13 |



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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.