

TempGuard - Hinged Fittings

Type TPH - Hinged T Piece



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	High			
Degree of protection	IP40 - Hinged fittings			
UV protection	Medium			
Finish	Dark Orange			
Application	One-piece symmetrical 3 junction fittings allow a variety of conduit size variations. These fittings are designed to snap together over all Harnessflex conduits in extreme temperature applications.			
Normal operating temperature range	Minimum Temperature	Permanent Max Temperature	Long Term Max Temperature (30,000 Hrs)	Short Term Max Temperature (3000 Hrs)
	-40°C	+160°C	+185°C	+200°C
For use with - Conduit range	Full TempGuard system protection is achieved using these fittings with HTC conduit. Compatible with all Harnessflex conduits.			
Fire Performance	Test Standard	Performance Rating		
	UL94	V2		
	UL94 RTI	150 (Elec)		
Chemical resistance & Storage data	Click or See page 8			
Type of material	High Temperature Polyamide (Nylon) - Low Smoke & Halogen Free			

Image



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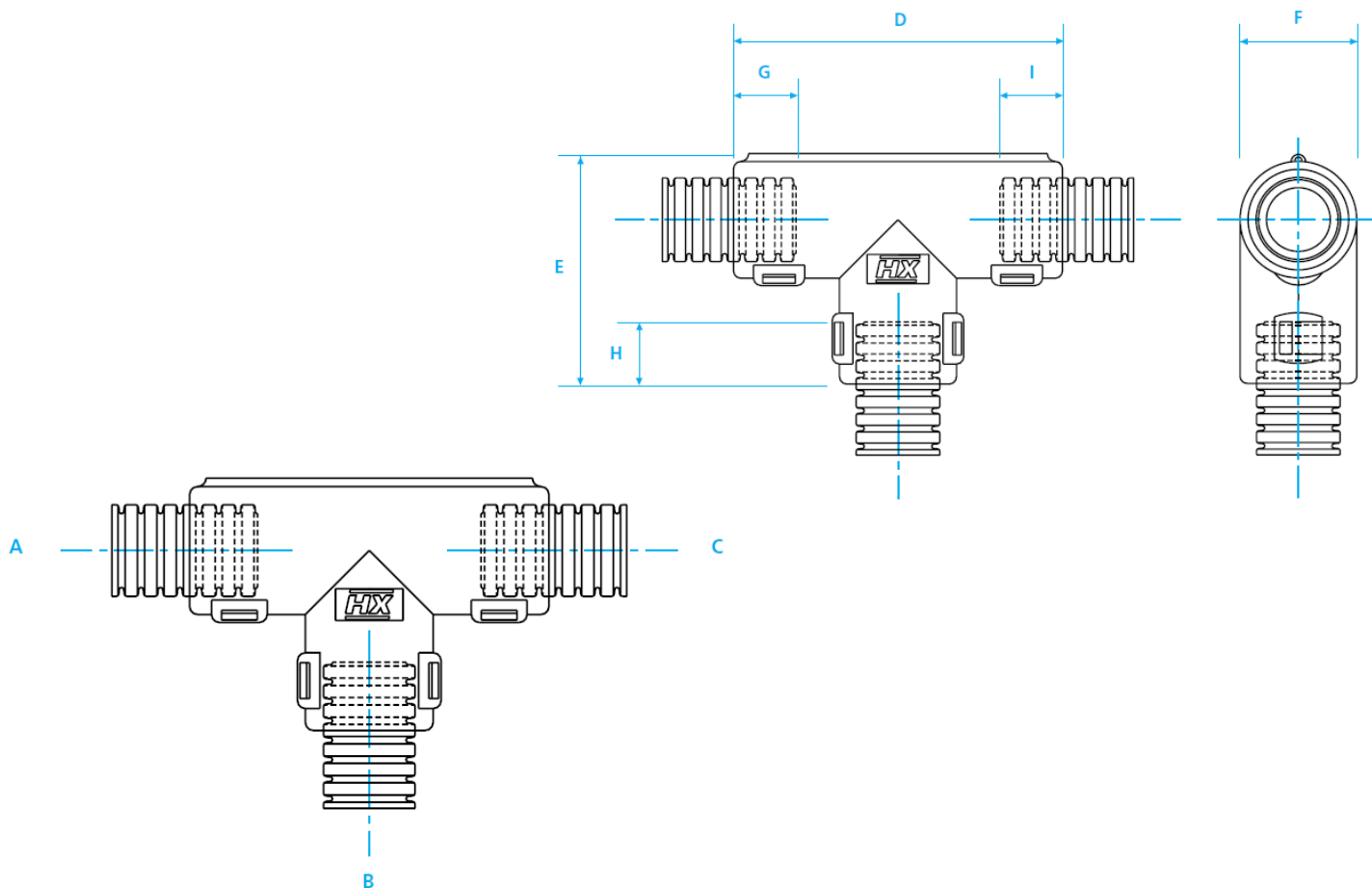


Dimensional Data & Part Number Configuration

Series	Part Number * Stocked Items	Conduit Sizes						Nominal Dimensions (mm)					
		(NC)			(NW)			D	E	F	G	H	I
		A	B	C	A	B	C						
08 T													
	TPH080808	08	08	08	7.5	7.5	7.5	45.2	31.1	17	10	10	10
	TPH081208	08	12	08	7.5	10	7.5	45.2	31.1	17	10	10	10
12 T													
	TPH120808	12	08	08	10	7.5	7.5	45.2	31.1	17	10	10	10
	TPH120812	12	08	12	10	7.5	10	45.2	31.1	17	10	10	10
	TPH121208	12	12	08	10	10	7.5	45.2	31.1	17	10	10	10
	TPH121212	12	12	12	10	10	10	45.2	31.1	17	10	10	10
	TPH121612	12	16	12	10	13	10	45.2	31.1	17	10	10	10

* Part numbers listed are stocked items available for immediate order

** Parts numbers listed are available to order but not stocked items, and would therefore be subject to manufacturing leadtime.



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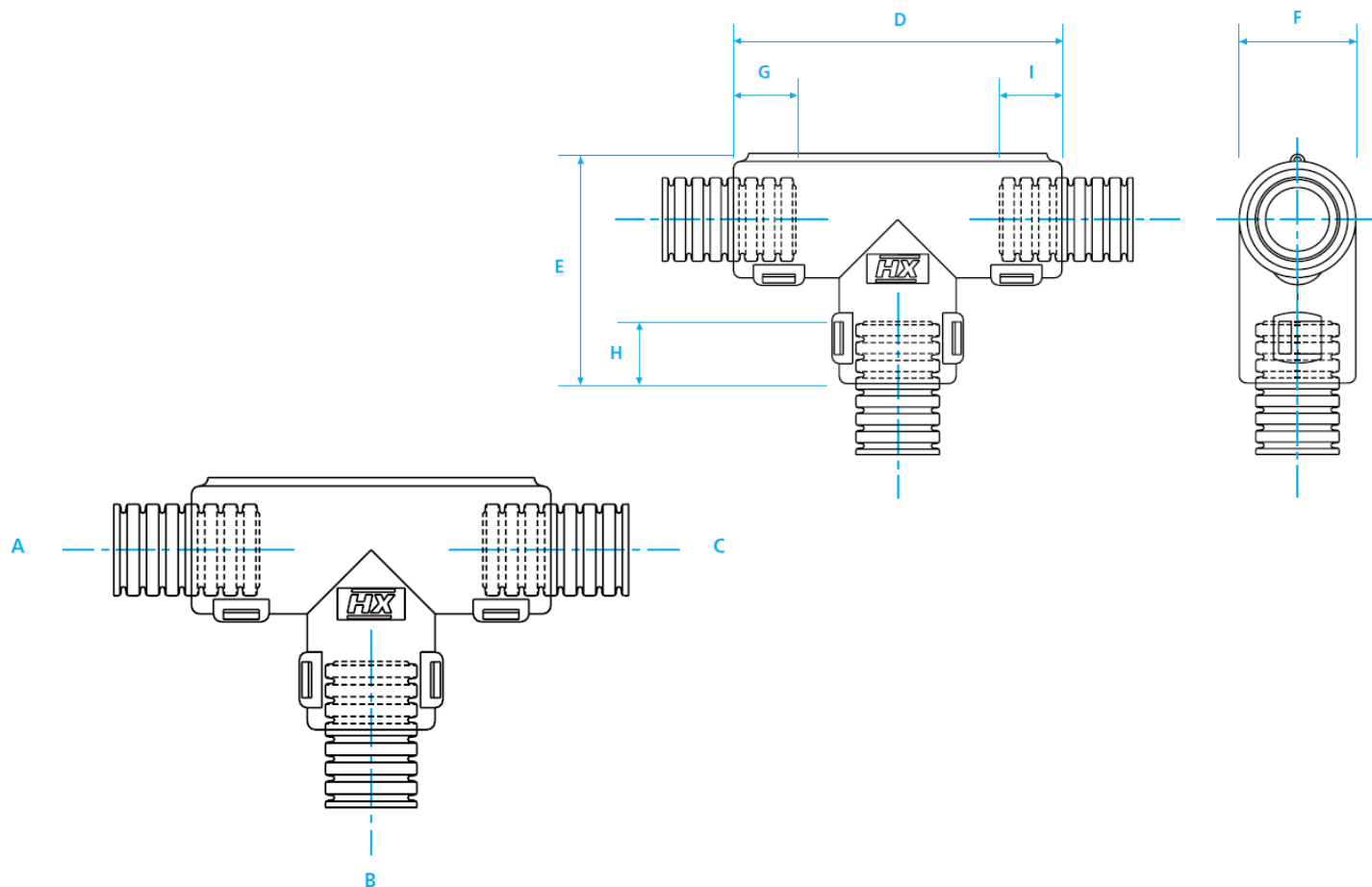


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		(NC)			(NW)			D	E	F	G	H	I
		A	B	C	A	B	C						
16 T													
	TPH160812	16	08	12	13	7.5	10	49.1	34.8	21	10	10	10
	TPH160816	16	08	16	13	7.5	13	49.1	34.8	21	10	10	10
	TPH161212	16	12	12	13	10	10	49.1	34.8	21	10	10	10
	TPH161216	16	12	16	13	10	13	49.1	34.8	21	10	10	10
	TPH161608	16	16	8	13	13	7.5	49.1	34.8	21	10	10	10
	TPH161612	16	16	12	13	13	10	49.1	34.8	21	10	10	10
	TPH161616	16	16	16	13	13	13	49.1	34.8	21	10	10	10
	TPH162012	16	20	12	13	17	10	49.1	34.8	21	10	10	10
	TPH162016	16	20	16	13	17	13	49.1	34.8	21	10	10	10

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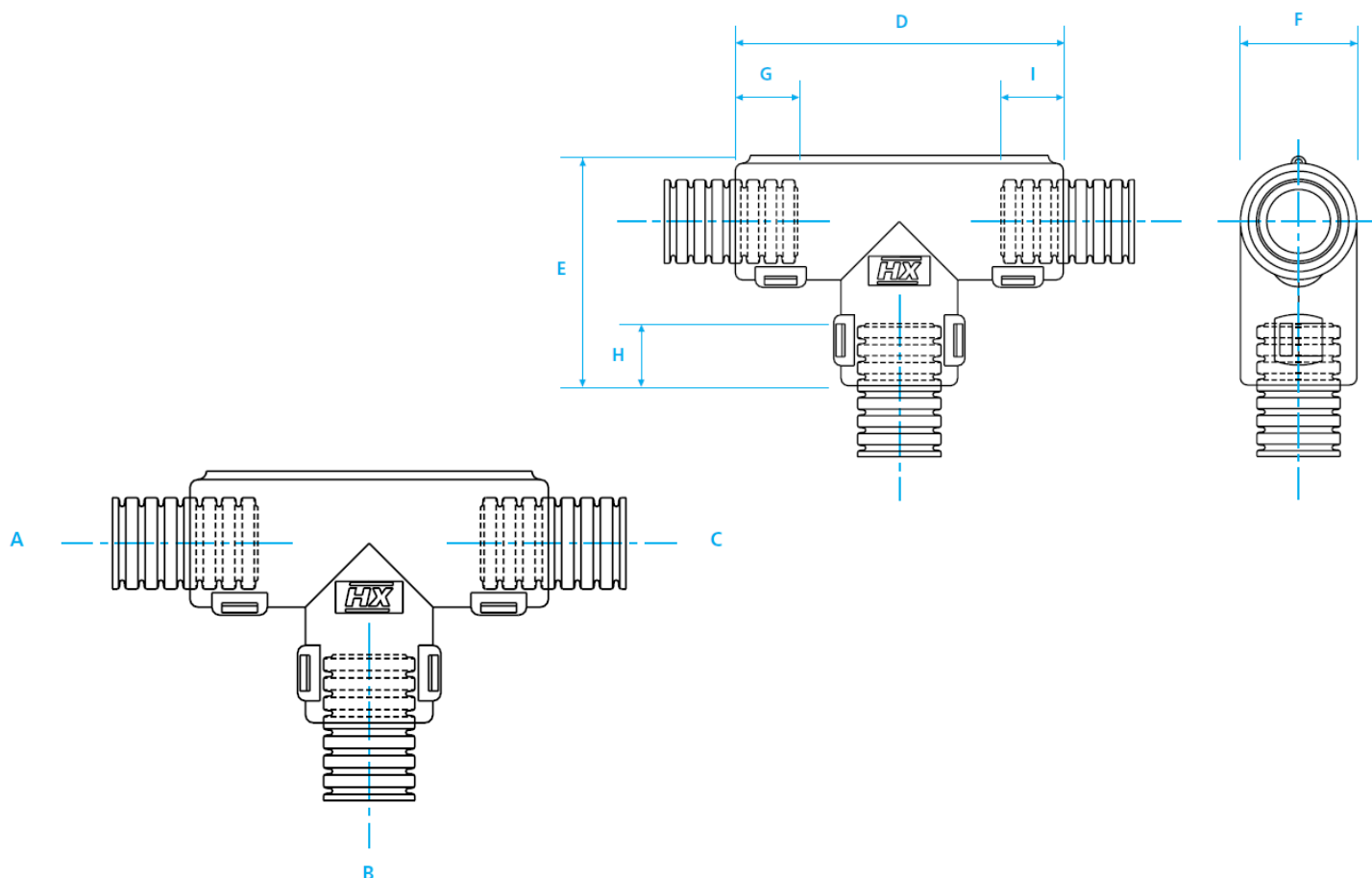


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		(NC)			(NW)			D	E	F	G	H	I
		A	B	C	A	B	C						
20 T													
	TPH200816	20	08	16	17	7.5	13	56.5	41.0	26	12	10	10
	TPH200820	20	08	20	17	7.5	17	56.5	41.0	26	12	10	12
	TPH201216	20	12	16	17	10	13	56.5	41.0	26	12	10	10
	TPH201220	20	12	20	17	10	17	56.5	41.0	26	12	10	12
	TPH201616	20	16	16	17	13	13	56.5	41.0	26	12	10	10
	TPH201620	20	16	20	17	13	17	56.5	41.0	26	12	10	12
	TPH202012	20	20	12	17	17	10	56.5	41.0	26	12	12	10
	TPH202016	20	20	16	17	17	13	56.5	41.0	26	12	12	10
	TPH202020	20	20	20	17	17	17	56.5	41.0	26	12	12	12

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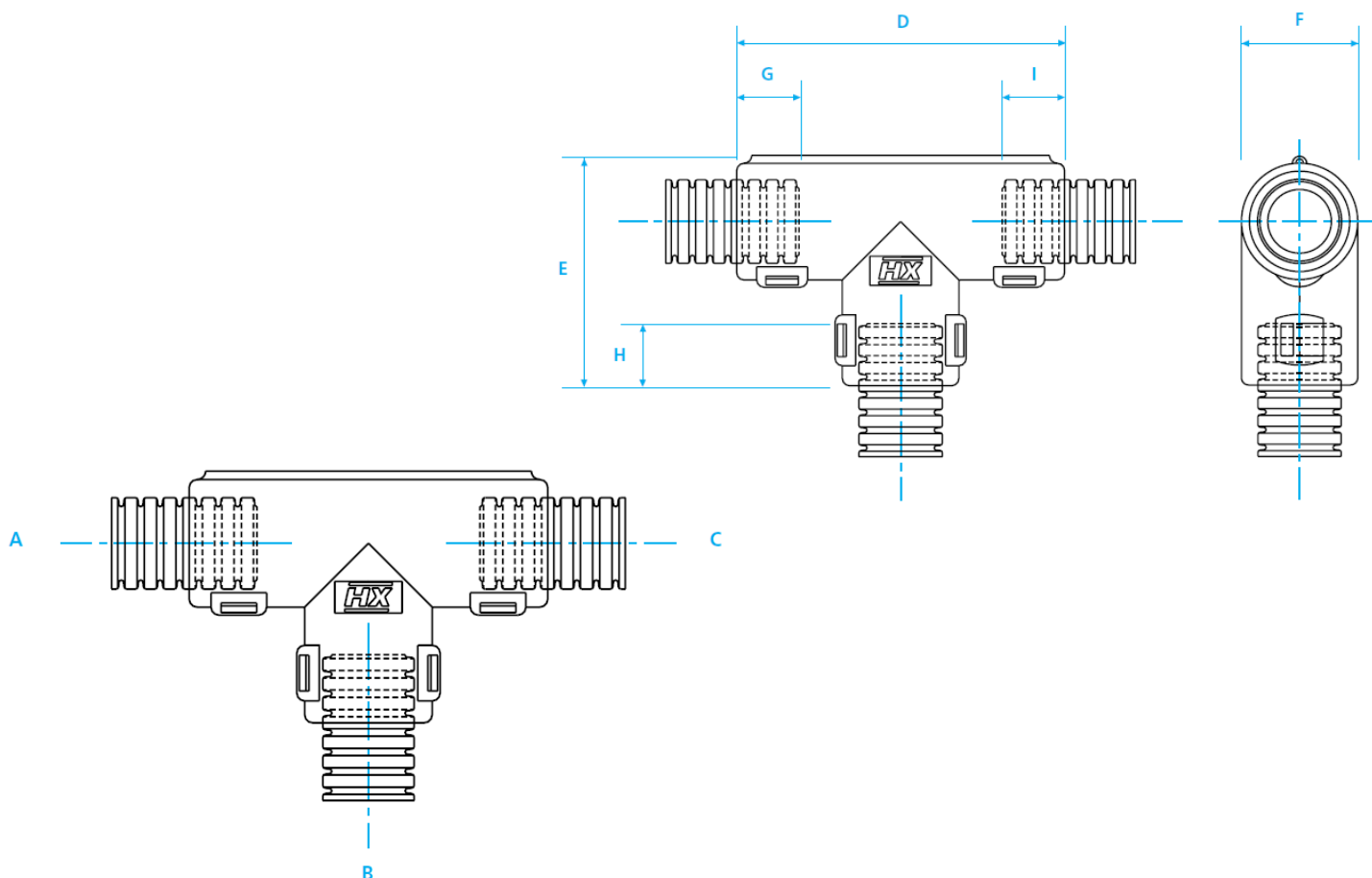


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		(NC)			(NW)			D	E	F	G	H	I
		A	B	C	A	B	C						
08 T													
	TPH081612	08	16	12	7.5	13	10	45.2	31.1	17	10	10	10
10 T													
	TPH100808	10	08	08	8.5	7.5	7.5	45.2	31.7	17	10	10	10
	TPH101010	10	10	10	8.5	8.5	8.5	45.2	31.7	17	10	10	10
	TPH101012	10	10	12	8.5	8.5	10	45.2	31.7	17	10	10	10
12 T													
	TPH121010	12	10	10	10	8.5	8.5	45.2	31.1	17	10	10	10
	TPH121012	12	10	12	10	8.5	10	45.2	31.1	17	10	10	10
	TPH121210	12	12	10	10	10	7.5	45.2	31.1	17	10	10	10

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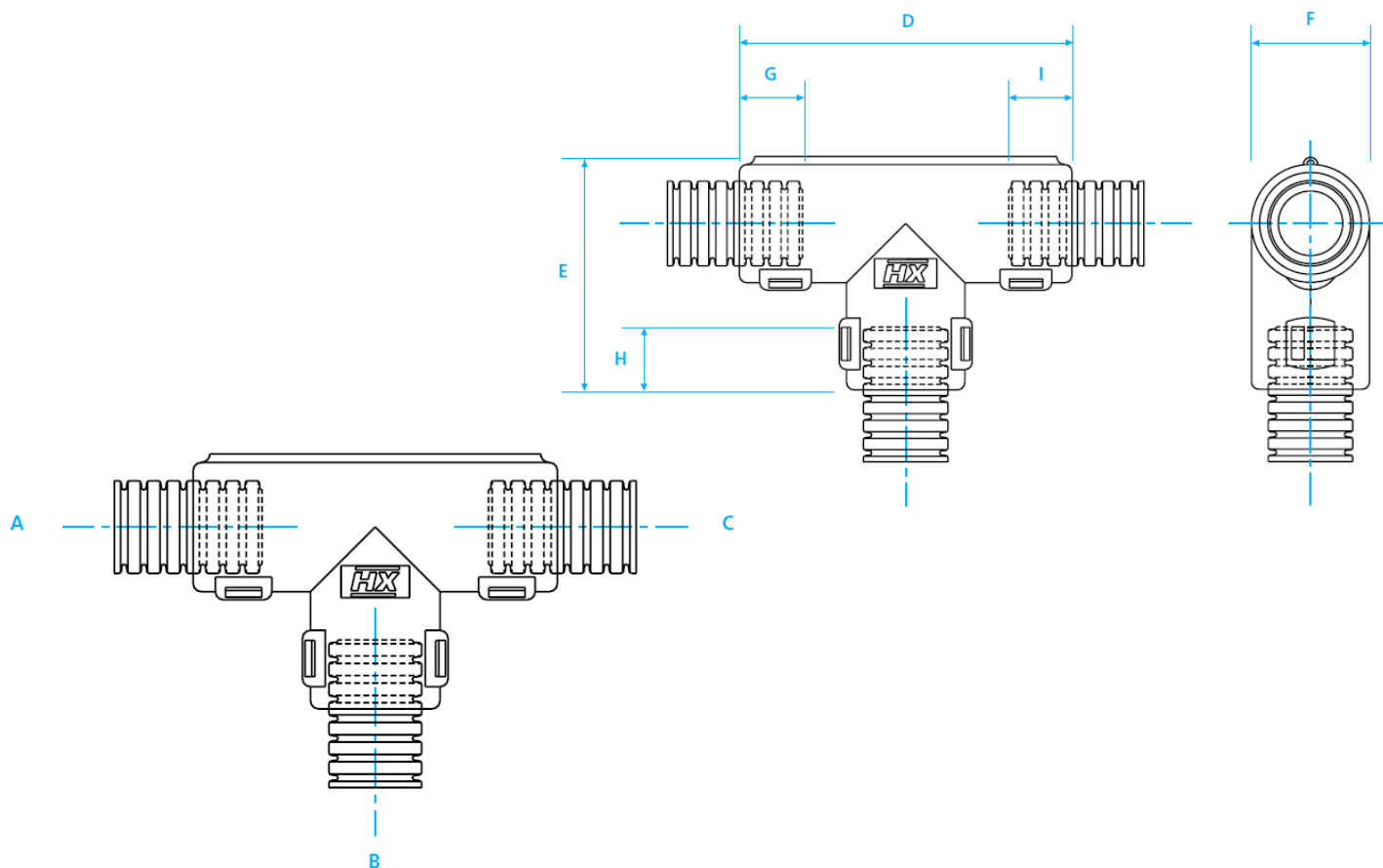


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		(NC)			(NW)			D	E	F	G	H	I
		A	B	C	A	B	C						
16 T													
	TPH160808	16	08	08	13	7.5	7.5	49.1	34.8	21	10	10	10
	TPH161012	16	10	12	13	8.5	10	49.1	34.8	21	10	10	10
	TPH161016	16	10	16	13	8.5	13	49.1	34.8	21	10	10	10

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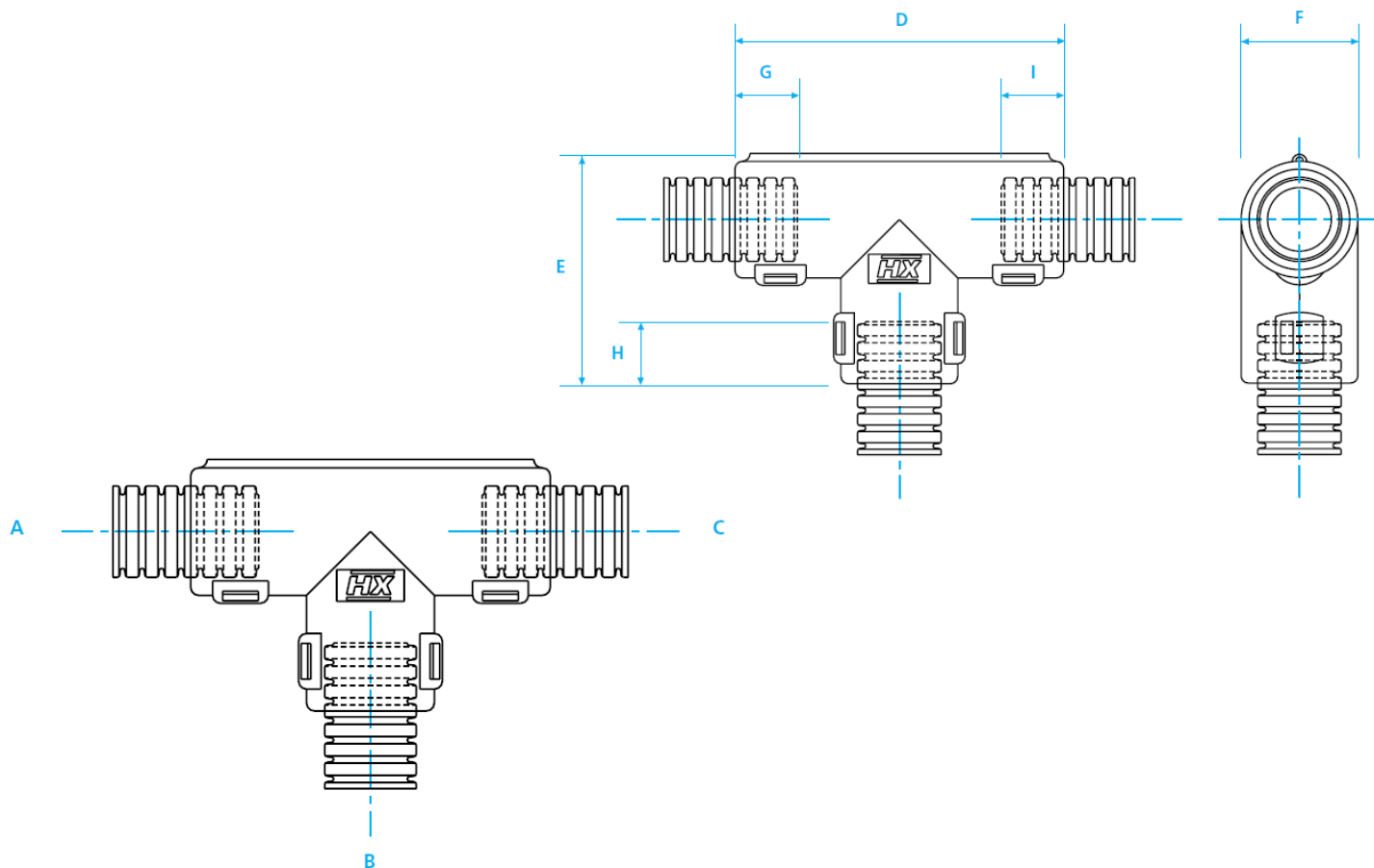


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		(NC)			(NW)			D	E	F	G	H	I
		A	B	C	A	B	C						
20 T													
	TPH201016	20	10	16	17	8.5	13	56.5	41.0	26	12	10	10
	TPH201020	20	10	20	17	8.5	17	56.5	41.0	26	12	10	12
	TPH201612	20	16	12	17	13	10	56.5	41.0	26	12	10	10

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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	● Urea
	● Carbon tetrachloride	● Hydrochloric Acid (36%)	● Sea Water	● Uric Acid
	● Chlorine water	● Hydrogen Peroxide (35%)	● Silver Nitrate	● Vegetable Oil
	● Chloroform	● Hydrogen Peroxide (87%)	● Skydrol	● Vinyl Acetate
	● Citric Acid	● Lactic Acid	● Sodium Chloride	● Water
	● Copper Sulphate	● Lubricating oil	● Sodium Hydroxide (10%)	● White Spirit
	● Cresol	● Methanol	● Sodium Hydroxide (60%)	● Zinc Chloride

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. 18°C to 30°C	Installation temp. >18°C	Rel. humidity >30%
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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.