

# TempGuard Interfaces

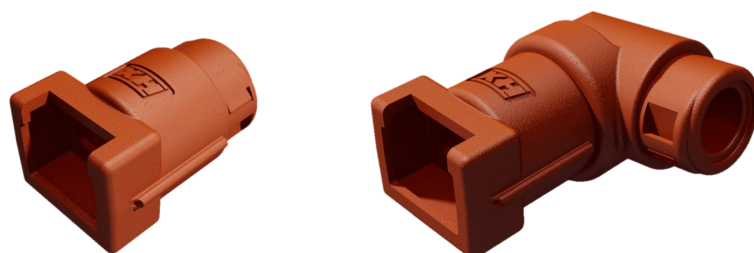
## Deutsch DT Series Connector Interface



### Technical Characteristics

|                                    |   |                           |  |                                       |
|------------------------------------|---|---------------------------|--|---------------------------------------|
| Conforms to                        | CE Mark to the low voltage directive<br>RoHS Compliant to 2011/65/EU<br>Conforms with end of life vehicle directive (ELV) EU200/53/EC   |                           |  |                                       |
| Approvals and Standards            |   |                           |  |                                       |
| Degree of mechanical protection    | High  |                           |  |                                       |
| Degree of protection               | IP40 - Hinged Connector Interface fittings  |                           |  |                                       |
| UV protection                      | Medium  |                           |  |                                       |
| Finish                             | Dark Orange   |                           |  |                                       |
| Application                        | Single junction straight and 90° elbow fittings providing high integrity connections between Deutsch DT connectors and Harnessflex conduit systems. In addition, 90° elbow versions allow the conduit to swivel 360° around the connector housing, sufficient to avoid the problems associated with one-piece interfaces of overflexing due to movement or vibration. |                           |  |                                       |
| 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 <a href="#">Harnessflex</a> conduits.   |                           |  |                                       |
| Fire Performance                   | Test Standard   | Performance Rating        |  |                                       |
|                                    | UL94  | V2                        |  |                                       |
|                                    | UL94 RTI  | 150 (Elec)                |  |                                       |
| Chemical resistance & Storage data | Click or See page <a href="#">4</a>   |                           |  |                                       |
| Type of material                   | High Temperature Polyamide (Nylon) - Low Smoke and Halogen Free   |                           |  |                                       |

Image



# TempGuard Interfaces

## Deutsch DT Series Connector Interface



### Dimensional Data & Part Number Configuration

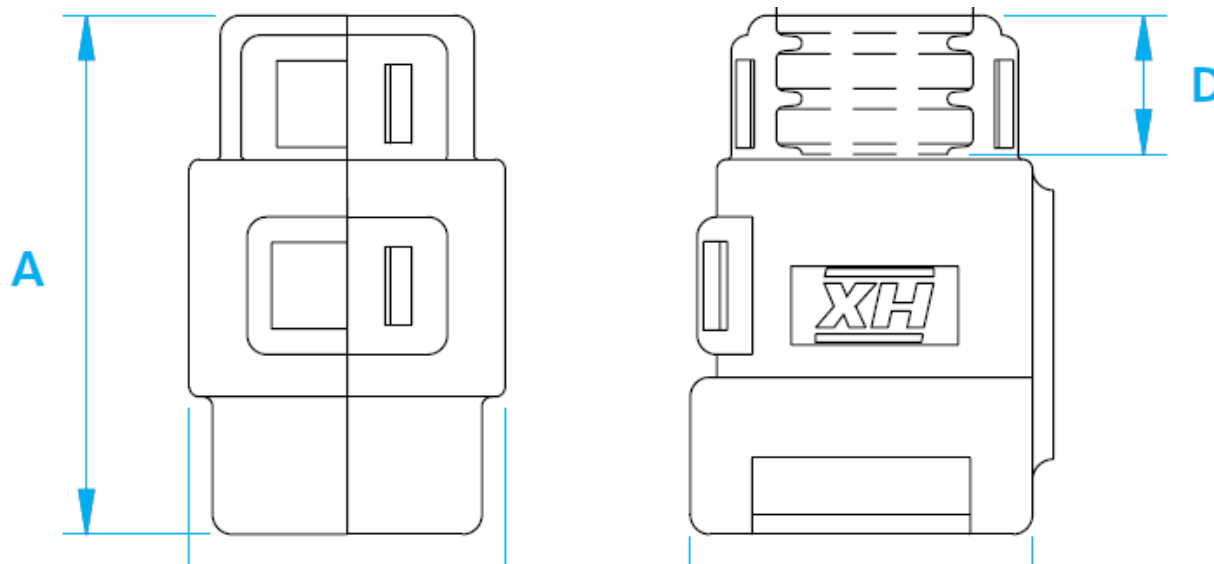
| Straight Interface<br>* Stocked Items | A    | B    | C  | D  | Conduit Size<br>(NC) | Conduit Size<br>(NW) | Deutsch - Reference |
|---------------------------------------|------|------|----|----|----------------------|----------------------|---------------------|
| CIH08-DT2                             | 26.0 | 16.0 | 18 | 7  | 08                   | 7.5                  | DT 2-way            |
| CIH08-DT3                             | 30.0 | 22.0 | 24 | 12 | 08                   | 7.5                  | DT 3-way            |
| CIH08-DT4                             | 42.0 | 18.0 | 27 | 12 | 08                   | 7.5                  | DT 4-way            |
| CIH12-DT2                             | 26.0 | 16.0 | 18 | 7  | 12                   | 10                   | DT 2-way            |
| CIH12-DT3                             | 29.0 | 22.0 | 24 | 7  | 12                   | 10                   | DT 3-way            |
| CIH12-DT4                             | 40.0 | 18.0 | 27 | 7  | 12                   | 10                   | DT 4-way            |
| CIH12-DT6                             | 40.0 | 22.0 | 27 | 10 | 12                   | 10                   | DT 6-way            |
| CIH12-DT8                             | 40.0 | 25.0 | 30 | 10 | 12                   | 10                   | DT 8-way            |

| Straight Interface<br>** Made to Order | A    | B    | C  | D  | Conduit Size<br>(NC) | Conduit Size<br>(NW) | Deutsch - Reference |
|--|------|------|----|----|----------------------|----------------------|---------------------|
| CIH08-DT6                              | 42.0 | 22.0 | 27 | 12 | 08                   | 7.5                  | DT 6-way            |
| CIH16-DT12                             | 44.0 | 24.0 | 40 | 10 | 16                   | 13                   | DT 12-way           |

Note : Nominal Dimensions are in mm

\* 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.



# TempGuard Interfaces

## Deutsch DT Series Connector Interface



### Dimensional Data & Part Number Configuration

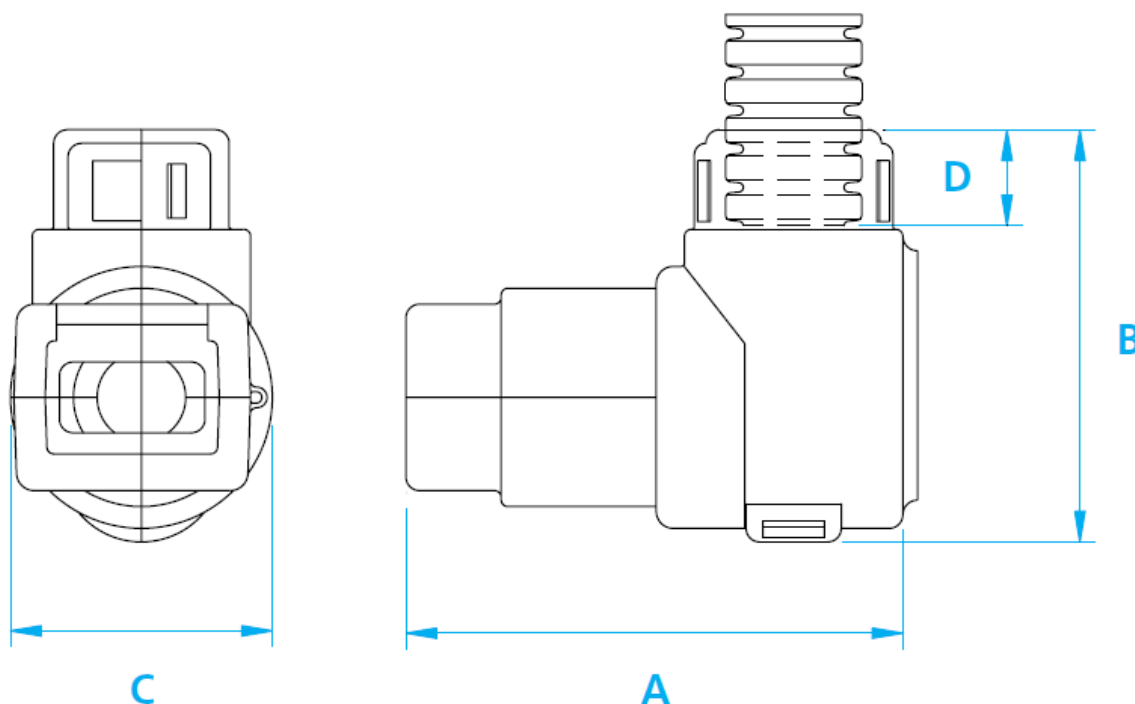
| 90° Elbow Interface<br>* Stocked Items | A    | B    | C  | D | Conduit Size<br>(NC) | Conduit Size<br>(NW) | Deutsch - Reference |
|--|------|------|----|---|----------------------|----------------------|---------------------|
| CIH08-90-DT2                           | 36.0 | 30.0 | 19 | 7 | 08                   | 7.5                  | DT 2-way            |
| CIH08-90-DT4                           | 48.0 | 30.0 | 25 | 7 | 08                   | 7.5                  | DT 4-way            |
| CIH12-90-DT2                           | 36.0 | 30.0 | 19 | 7 | 12                   | 10                   | DT 2-way            |

| 90° Elbow Interface<br>** Made to order | A    | B    | C  | D  | Conduit Size<br>(NC) | Conduit Size<br>(NW) | Deutsch - Reference |
|---|------|------|----|----|----------------------|----------------------|---------------------|
| CIH08-90-DT3                            | 44.0 | 30.0 | 23 | 7  | 08                   | 7.5                  | DT 3-way            |
| CIH08-90-DT6                            | 48.0 | 34.0 | 25 | 7  | 08                   | 7.5                  | DT 6-way            |
| CIH12-90-DT3                            | 44.0 | 30.0 | 23 | 7  | 12                   | 10                   | DT 3-way            |
| CIH12-90-DT4                            | 48.0 | 30.0 | 25 | 7  | 12                   | 10                   | DT 4-way            |
| CIH12-90-DT6                            | 48.0 | 34.0 | 25 | 7  | 12                   | 10                   | DT 6-way            |
| CIH12-90-DT8                            | 63.0 | 37.0 | 30 | 10 | 12                   | 10                   | DT 8-way            |
| CIH12-90-DT12                           | 68.0 | 36.0 | 38 | 10 | 12                   | 10                   | DT 12-way           |
| CIH16-90-DT8                            | 63.0 | 37.0 | 30 | 10 | 16                   | 13                   | DT 8-way            |
| CIH16-90-DT12                           | 68.0 | 36.0 | 38 | 10 | 16                   | 13                   | DT 12-way           |

Note : Nominal Dimensions are in mm

\* 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.



# TempGuard Interfaces

## Deutsch DT Series Connector Interface



### Chemical Resistance Chart

|   |   |  |  |  |
|---|---|--|--|--|
| <b>Key:</b><br><br>Suitable : <span style="color: green;">●</span><br>Limited Suitability : <span style="color: yellow;">●</span><br>Unsuitable : <span style="color: red;">●</span><br>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: green;">●</span> Methyl Bromide          | <span style="color: green;">●</span> Sulphur Dioxide (Gas) |
|   | <span style="color: green;">●</span> Astm No.2            | <span style="color: green;">●</span> Diethylamine          | <span style="color: red;">●</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: green;">●</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: green;">●</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> Urea                  |
|   | <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: green;">●</span> Uric Acid             |
|   | <span style="color: red;">●</span> Chlorine water         | <span style="color: red;">●</span> Hydrogen Peroxide (35%) | <span style="color: green;">●</span> Silver Nitrate          | <span style="color: green;">●</span> Vegetable Oil         |
|   | <span style="color: red;">●</span> Chloroform             | <span style="color: red;">●</span> Hydrogen Peroxide (87%) | <span style="color: green;">●</span> Skydrol                 | <span style="color: yellow;">●</span> Vinyl Acetate        |
|   | <span style="color: yellow;">●</span> Citric Acid         | <span style="color: green;">●</span> Lactic Acid           | <span style="color: green;">●</span> Sodium Chloride         | <span style="color: green;">●</span> Water                 |
|   | <span style="color: green;">●</span> Copper Sulphate      | <span style="color: green;">●</span> Lubricating oil       | <span style="color: yellow;">●</span> Sodium Hydroxide (10%) | <span style="color: green;">●</span> White Spirit          |
|   | <span style="color: red;">●</span> Cresol                 | <span style="color: yellow;">●</span> Methanol             | <span style="color: red;">●</span> Sodium Hydroxide (60%)    | <span style="color: yellow;">●</span> 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:

|                      |                           |                      |
|----------------------|---------------------------|----------------------|
| <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.