

## Metallic Systems

### SB Fitting Type A

#### Technical Characteristics

|                                    |                                                                                                                                                                     |                    |          |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|
| Conforms to                        | BSI Kitemark KM-35161<br>Low voltage directive<br>Inherent Low Fire Hazard                                                                                          |                    |          |
| Approvals and Standards            |   |                    |          |
| Degree of mechanical protection    | Very High                                                                                                                                                           |                    |          |
| Degree of protection               | IP40 - with all EMI Screen Inherent Low Fire Hazard conduit in the series                                                                                           |                    |          |
| UV protection                      | Very High                                                                                                                                                           |                    |          |
| Fitting characteristics            | Straight fitting - Fixed external male thread                                                                                                                       |                    |          |
| Application                        | For insertion into knockouts using a locknut                                                                                                                        |                    |          |
| Normal operating temperature range | Application                                                                                                                                                         | Min Temp           | Max Temp |
|                                    | Static                                                                                                                                                              | - 50°C             | +300°C   |
|                                    | Dynamic                                                                                                                                                             | - 45°C             | +250°C   |
| For use with - Conduit Series      | Type <a href="#">SB</a> , <a href="#">STC</a> , <a href="#">SSB</a> & <a href="#">SSBGS</a>                                                                         |                    |          |
| Fire performance                   | Test Standard                                                                                                                                                       | Performance Rating |          |
|                                    | EN45545                                                                                                                                                             | ILFH               |          |
|                                    | NFF16-101                                                                                                                                                           | ILFH               |          |
|                                    | LUL-1085                                                                                                                                                            | ILFH               |          |
|                                    | BS6855                                                                                                                                                              | ILFH               |          |
|                                    | DIN 5510-2                                                                                                                                                          | ILFH               |          |
| Testing data                       | Click or See page <a href="#">3</a>                                                                                                                                 |                    |          |
| Type of material                   | Nickel Plated Brass                                                                                                                                                 |                    |          |





Image

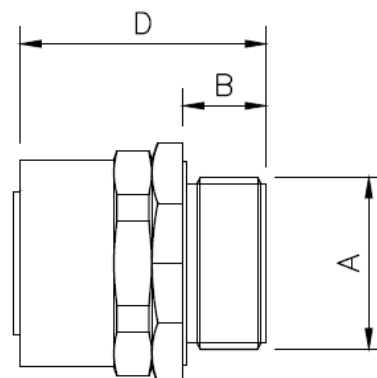
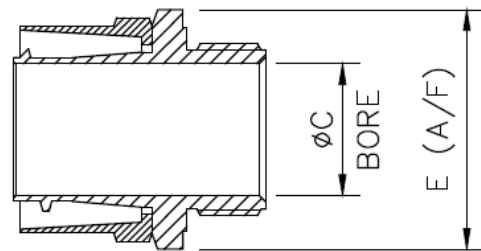
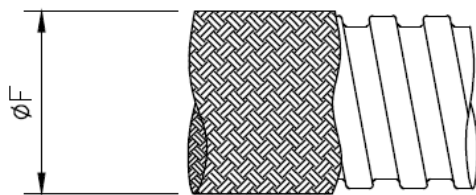


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#### Dimensional Data

| Part No     | Thread<br>A | Nominal Dimensions (mm) |      |      |      | Nominal<br>Conduit - $\varnothing$ F (mm) |
|-------------|-------------|-------------------------|------|------|------|-------------------------------------------|
|             |             | B                       | C    | D    | E    |                                           |
| TSB10/M12/A | M12 x 1.0   | 8.0                     | 5.5  | 23.0 | 14.0 | 10.0                                      |
| TSB12/M16/A | M16 x 1.5   | 8.0                     | 8.5  | 23.0 | 17.0 | 14.0                                      |
| TSB16/M16/A | M16 x 1.5   | 10.0                    | 11.5 | 25.5 | 20.0 | 17.5                                      |
| TSB20/M20/A | M20 x 1.5   | 13.0                    | 15.3 | 29.0 | 24.0 | 21.5                                      |
| TSB25/M25/A | M25 x 1.5   | 12.0                    | 19.0 | 36.5 | 30.0 | 26.0                                      |
| TSB32/M32/A | M32 x 1.5   | 14.0                    | 26.2 | 39.0 | 38.0 | 34.0                                      |
| TSB40/M40/A | M40 x 1.5   | 14.0                    | 34.2 | 39.0 | 49.0 | 43.6                                      |
| TSB50/M50/A | M50 x 1.5   | 14.0                    | 45.0 | 41.0 | 65.5 | 55.0                                      |
| TSB63/M63/A | M63 x 1.5   | 14.0                    | 57.5 | 41.0 | 70   | 67.0                                      |
| TSB75/M75/A | M75 x 1.5   | 14.0                    | 70.0 | 41.0 | 80   | 79.0                                      |



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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.

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.

#### Thread Data

| Metric         | Standard thread conforming to EN60423 & BS3643 |                            |       |
|----------------|------------------------------------------------|----------------------------|-------|
| Thread Size mm | Ext Thread Outside Diameter                    | Int Thread Inside Diameter | Pitch |
| M10            | 10.0                                           | 8.9                        | 1.0   |
| M12            | 12.0                                           | 10.4                       | 1.5   |
| M16            | 16.0                                           | 14.4                       | 1.5   |
| M20            | 20.0                                           | 18.4                       | 1.5   |
| M25            | 25.0                                           | 23.4                       | 1.5   |
| M32            | 32.0                                           | 30.4                       | 1.5   |
| M40            | 40.0                                           | 38.4                       | 1.5   |
| M50            | 50.0                                           | 48.4                       | 1.5   |
| M63            | 63.0                                           | 61.4                       | 1.5   |
| M75            | 75.0                                           | 73.4                       | 1.5   |