



**IKEBANA  
ENGINEERING LTD.**

Heat shrinkable cable accessories

## Heat Shrinkable Busbar Tubes BBT and BBT PLUS



### Product Features

Busbars insulated with BBT and BBT Plus are corona discharge free even with shorter spacing between phase to phase. This enables compact switch gear panel design.

- **FLAME RETARDANT:** Good flame retardance properties.
- **EXCELLENT HEAT RESISTANCE:** Made from cross linked polyolefins, non melting
- **HIGH FLEXIBILITY:** Can be installed on curved and bent busbars without cracking or increasing. Both circular and rectangular cross sections can be insulated using BBT & BBT Plus.
- **LARGER APPLICATION RANGE:** Expansion ratio 2:5:1.
- **EASY INSTALLATION:** In the factory or at site using gas torch or hot blower.

### Properties

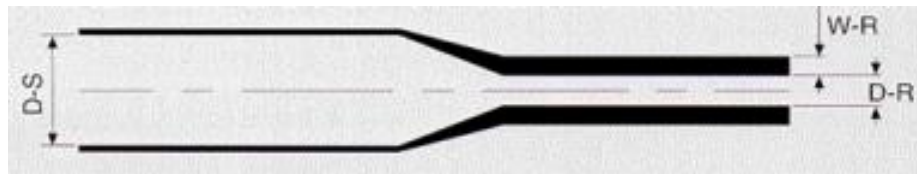
|                                                  | Test Method  | Typical Data                 |
|--------------------------------------------------|--------------|------------------------------|
| Tensile Strength                                 | ASTM D 2671  | Min. 12 MPa                  |
| Ultimate Elongation                              | ASTM D 2671  | Min. 800%                    |
| Longitudinal Shrinkage                           | ASTM D 2671  | ±10%                         |
| Accelerated ageing : 7 days at 120 deg. C        |              |                              |
| Tensile Strength                                 | ASTM D 2671  | Min. 10 MPa                  |
| Ultimate Elongation                              | ASTM D 2671  | Min. 200%                    |
| Flammability (Oxygen Index)                      | ISO 4589     | ≥25                          |
| Low Temperature Flexibility (4hrs at -40 deg. C) | ASTM D2671 C | No cracking                  |
| Volume Resistivity                               | IEC 60093    | Min. 10 <sup>14</sup> Ohm cm |
| Dielectric Constant                              | IEC 60250    | ≤3.5                         |
| Dielectric Strength                              | IEC 60243    | Min. 19 kV/mm                |
| Water Absorption (14 days at 23 deg. C)          | ISO 62       | Max. 0.5%                    |
| Copper Corrosion                                 | UL224        | No corrosion                 |



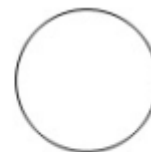
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## Dimensions and Ordering information



RECTANGULAR BUSBAR



ROUND BUSBAR

| Size (mm)       | Inside Diameter |         | Wall Thickness |     | Suitable For Busbar Cross Section |       |          |       |
|-----------------|-----------------|---------|----------------|-----|-----------------------------------|-------|----------|-------|
|                 | Min D-S         | Max D-R | W-S            | W-R | Rectangular                       |       | Round    |       |
|                 |                 |         |                |     | L + T                             |       | Diameter |       |
|                 |                 |         |                |     | (Min)                             | (Max) | (Min)    | (Max) |
| BBT 15/6        | 15              | 6       | 1.1            | 2.5 | 12                                | 18    | 6.5      | 12    |
| BBT 25/10       | 25              | 10      | 1.3            | 2.9 | 20                                | 30    | 11       | 20    |
| BBT 30/12       | 30              | 12      | 1.3            | 2.9 | 22                                | 38    | 13.6     | 25    |
| BBT 40/16       | 40              | 16      | 1.3            | 2.9 | 29                                | 52    | 17.6     | 32    |
| BBT 50/20       | 50              | 20      | 1.3            | 2.9 | 36                                | 65    | 22       | 43    |
| BBT 65/25       | 65              | 25      | 1.3            | 2.9 | 55                                | 85    | 33       | 54    |
| BBT 75/30       | 75              | 30      | 1.3            | 2.9 | 55                                | 95    | 33       | 63    |
| BBT 100/40      | 100             | 40      | 1.3            | 2.9 | 70                                | 130   | 44       | 86    |
| BBT 120/50      | 120             | 50      | 1.3            | 2.9 | 90                                | 165   | 55       | 105   |
| BBT Plus 25/10  | 25              | 10      | 1.6            | 4   | 17                                | 28    | 11       | 20    |
| BBT Plus 40/16  | 40              | 16      | 1.6            | 4   | 28                                | 45    | 18       | 32    |
| BBT Plus 65/25  | 65              | 25      | 1.6            | 4   | 45                                | 67    | 28       | 47    |
| BBT Plus 75/25  | 75              | 25      | 1.6            | 4   | 45                                | 84    | 28       | 54    |
| BBT Plus 95/30  | 95              | 30      | 1.6            | 4   | 54                                | 106   | 33.6     | 70    |
| BBT Plus 120/40 | 120             | 40      | 1.6            | 4.1 | 67                                | 134   | 44       | 87    |

S: As Supplied

R: Fully Recovered