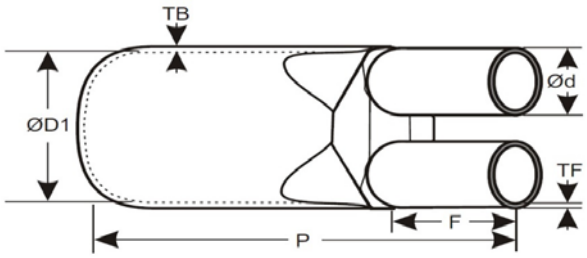
# Two Way LV Cable Breakout

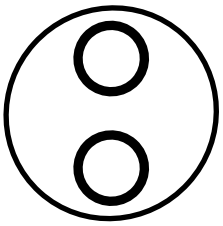
DATASHEET

## EB2

Heat Shrinkable 2-way Cable Breakout provides an environmental seal to the crutch of plastic and paper insulated cables, rated up to 1.1kV. The Breakout is made from thermally stabilised, cross linked, polymeric material.

The Breakouts are internally coated with hot melt adhesive.



**Drawing depicts typical dimensions*

*D,d – Internal Diameter without Adhesive Coating | E – As Supplied | S - After Free Recovery*

**PRODUCT DIMENSIONS – EB2 Series** *(all dimensions are in mm)*

| CODE & SIZE | D | | d | | P | | F | | TB | TF |
|---|---|---|---|---|---|---|---|---|---|---|
| | E | S | E | S | E | S | E | S | S | S |
| | Min | Max | Min | Max | | | | | Nom. | Nom. |
| EB2-30-10 | 30 | 10 | 12 | 3 | 68 | 90 | 15 | 17 | 1.5 | 1.0 |
| EB2-50-24 | 50 | 24 | 21 | 7 | 88 | 121 | 25 | 27 | 3.0 | 2.5 |
| EB2-60-20 | 84 | 20 | 45 | 18 | 103 | 105 | 35 | 45 | 3.5 | 3.5 |
| EB2-90-45 | 90 | 45 | 43 | 15 | 170 | 195 | 60 | 65 | 2.2 | 2.2 |
| EB2-115-40 | 115 | 40 | 53 | 15 | 155 | 185 | 50 | 70 | 2.5 | 2.2 |

**MATERIAL SPECIFICATIONS**

| CHARACTERISTIC | VALUE | TEST METHOD |
|---|---|---|
| **Physical Properties** | | |
| Water Absorption | 0.2% | ASTM D – 570/ISO 62 |
| Tensile Strength | ≥21 MPa | EN 60684 – 2 |
| Ultimate Elongation | 400% (min) | ASTM D – 412 / ISO 37 |
| Longitudinal Change | 10% (max) | - |
| Longitudinal Shrinkage | ≥ 3:1 | - |
| Hardness | 43 ± 3 Shore D | ASTM D – 2240 / ISO 868 |
| Density | 1.05 ± 0.2 g/cm$^3$ | ASTM D – 1505 / D=M/V |
| Bending at -30$^0$C | No Cracks | EN 60684 – 2 |
| **Thermal Ageing Tests (150$^0$C for 168 hours)** | | |
| Ultimate Elongation | 300% (min) | ASTM D – 2 / EN 60684 – 2 |
| Tensile Strength | ≥18 MPa | ASTM D – 2 / EN 60684 – 2 |
| **Electrical Properties** | | |
| Dielectric Constant | 5 (max) | ASTM D – 150 / IEC 250 |
| Dielectric Strength | ≥12kV/mm (min) | ASTM D – 149 /IEC 243 |
| Volume Resistivity | 1x10$^{13}$ Ohm-cm (min) | ASTM D – 257 / IEC 93 |
| **Chemical Properties** | | |
| Fungus Resistance | Rate 1 | ASTM D - 2671 |
| Corrosion | None | ISO 846 Method A |





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