

# RBKE Heat Shrink Sprader Caps (Breakouts)

## APPLICATIONS:

Acts as a breakout for core cables in cable branching and terminations.

## GENERAL PROPERTIES OF PRODUCT:

- High tensile strength
- Resistance to acids, alkaline, fuel oil, insulation oil, water and mind compound
- Product is resistance to thermal and UV decomposition.
- The hot melt adhesive lining provides effective waterproofing and environmental sealing



| Part Number  | ID Of Main Entry (mm)<br>D D1 |    | ID of Cores Entry (mm)<br>d d1 |      | Shrunk Wall thickness (mm) +/- 10% | Recovered Length -L (mm) +/- 10% | Proposed Cable Size |
|--------------|-------------------------------|----|--------------------------------|------|------------------------------------|----------------------------------|---------------------|
| RBKE2x32/14  | 32                            | 10 | 14                             | 4    | 2.2 (M) 2.0 (Cr)                   | 90 mm                            | 4-35                |
| RBKE3x37/15  | 37                            | 14 | 15                             | 4    | 2.2 (M) 2.0 (Cr)                   | 100 mm                           | 1.5- 50             |
| RBKE3x53/25  | 53                            | 20 | 25                             | 8    | 3.7 (M) 2.8 (Cr)                   | 188 mm                           | 70-150              |
| RBKE3x79/39  | 79                            | 33 | 39                             | 12   | 4.3 (M) 3.2 (Cr)                   | 230 mm                           | 150-300             |
| RBKE3x110/48 | 110                           | 55 | 48                             | 18   | 4.6 (M) 3.8 (Cr)                   | 250 mm                           | 185-400             |
| RBKE3x140/70 | 140                           | 56 | 70                             | 27   | 4.6 (M) 3.4 (Cr)                   | 255 mm                           | 185-400             |
| RBKE4x41/14  | 41                            | 16 | 14                             | 4    | 2.4 (M) 1.7 (Cr)                   | 105 mm                           | 4 to 35             |
| RBKE4x58/21  | 58                            | 26 | 21                             | 7    | 3.5 (M) 2.5 (Cr)                   | 175 mm                           | 35 to 95            |
| RBKE4x70/25  | 70                            | 27 | 25                             | 7    | 3.5 (M) 2.5 (Cr)                   | 175 mm                           | 70 to 150           |
| RBKE4x92/36  | 92                            | 41 | 36                             | 12.5 | 3.7 (M) 2.5 (Cr)                   | 220 mm                           | 120 to 240          |
| RBKE4x110/41 | 110                           | 43 | 41                             | 14   | 3.7 (M) 2.5 (Cr)                   | 220 mm                           | 240 to 400          |

## PRODUCT TECHNICAL DATA

| PROPERTIES                      | TEST METHOD | TYPICAL VALUE               |
|---------------------------------|-------------|-----------------------------|
| <b>Physical:</b>                |             |                             |
| Tensile Strength                | ASTM D 638  | 12 N/mm <sup>2</sup>        |
| Elongation Ultimate             | ASTM D 638  | 350%                        |
| Density                         | ASTM D 792  | 1.15+-0.2gm/cm <sup>3</sup> |
| Water Absorbtion                | ASTM D 570  | .05%(max.)                  |
| Hardness                        | ASTM D 2240 | 45+- 10 Shore D             |
| <b>Thermal:</b>                 |             |                             |
| Accelerated ageing              | ASTM D 2671 | 120°C 500hrs                |
| Tensile Strength after Aging    | ASTM D 638  | 11N/mm <sup>2</sup>         |
| Ultimate Elongation after aging | ASTM D 638  | 300%                        |
| Heat Shock                      | ESI 09-11   | No Damage                   |
| Cracking low Temperature        | ASTM D 2671 | No Cracking                 |
| Continuous temperature limit    | IEC216      | - 40°C to 100°C             |
| <b>Electrical :</b>             |             |                             |
| Dielectric Strength             | ASTM D 149  | 12kV / mm                   |
| Dielectric                      | ASTM D 150  | 5(max.)                     |
| Volume Resistivity              | ASTM D 257  | >1x10 <sup>14</sup> ohm.cm  |