

INSULSLEEVE™

## HEAT SHRINK WRAP AROUND SLEEVE



Insul sleeve is a Cross-linked polyolefin 'tube' which is folded around the cable/pipe, zipped up with a stainless steel channel and then heat shrunk.

Shut down of system not required for repair.

Hotmelt adhesive provides complete environmental sealing and insulation according to IP 68 (Ingress Protection).

High resistance to UV rays, chemicals, corrosion, fungus, etc.

Temperature sensitive paint changes colour when heat shrinking process is complete.

Maximum length available upto 1500 mm.

## Selection Chart

| Code         | Diameter (D) |           | Thickness (± 20%) | Application |
|--------------|--------------|-----------|-------------------|-------------|
|              | Supplied     | Recovered | (recovered)       |             |
| GWS - 34/10  | 34           | 10        | 2.7               | 30-10       |
| GWS - 55/8   | 55           | 8         | 2.7               | 42-8        |
| GWS - 76/18  | 76           | 18        | 2.7               | 62-22       |
| GWS - 105/28 | 105          | 28        | 2.7               | 92-30       |
| GWS - 140/35 | 140          | 35        | 2.7               | 122-38      |
| GWS - 190/46 | 190          | 46        | 2.7               | 160-50      |
| GWS - 240/50 | 240          | 50        | 2.7               | 200-55      |

## HEAT SHRINK CABLE REPAIR SLEEVE



Heat Shrink Cable Repairing Sleeve is manufactured from Cross-linked polyolefin tube which is folded around the Wire/Cable, tapped up with a Heat resistant tape and then heat shrunk.

## Features &amp; Benefits:

- Provides permanent waterproof barrier & environmental seal.
- Shrink ratio 3:1.
- Flame retardant and self-extinguishing.
- Chemical, copper corrosion and fungus resistance.
- Shut down of system not required for repair.
- Hotmelt adhesive provides complete environmental sealing and insulation according to IP 68 (Ingress Protection).
- High resistance to UV rays, chemicals, corrosion, fungus, etc.
- Stocking only a few sizes will fit most repair needs.
- Custom dimensions available on request.

## Selection Chart

| Gala Code | Cable OD (mm.) | Length (mm.) | Overlap Length (mm.) |
|-----------|----------------|--------------|----------------------|
| GMRS-19   | 5 - 10         | 100/200/300  | ≥25                  |
| GMRS-30   | 8 - 17         | 100/200/300  | ≥25                  |
| GMRS-40   | 12 - 28        | 100/200/300  | ≥25                  |
| GMRS-70   | 24 - 55        | 100/200/300  | ≥25                  |
| GMRS-115  | 40 - 85        | 100/200/300  | ≥50                  |
| GMRS-160  | 55 - 122       | 300/400      | ≥50                  |
| GMRS-180  | 60-132         | 300/400      | >75                  |
| GMRS-200  | 65-150         | 300/400      | >75                  |
| GMRS-250  | 75-192         | 300/400      | >75                  |

INSULCAP™

## HEAT SHRINK CABLE END CAP



Insulcap is used to seal the ends of all types of Cables & protect from ingress of water/moisture. The caps are manufactured from high quality cross linked polyolefin material.

Compatible with most commonly used Cable Jackets i.e. XLPE, PVC, PILC or Rubber Sheathed Cable.

Hot Melt adhesive lining provides permanent seal on irregular cable sheaths.

Excellent resistance to weathering, moisture, contamination and adverse environmental conditions, according to IP 68 (Ingress Protection).

- Tamper Proof Application:  
Custom Logo / Print with special non-removable Ink marks permanent seal on End Cap after Shrinking, thereby avoiding claims in case of Pilferage of Cable length.
- Valved End caps (V) available for pressurized application for Telecom cables.
- Special Relief valved End Caps (RV) available for degassing application in High Voltage Power cables.
- Live End Cap Kit available for sealing Live Cables.
- Conductive End Caps are available with Conductive Mastic.

## Technical Qualification Report : QR 1011

| Technical Specification        |                                    |            |
|--------------------------------|------------------------------------|------------|
| PROPERTIES                     | VALUE                              | STANDARD   |
| <b>Physical</b>                |                                    |            |
| Tensile Strength               | 12 N/mm <sup>2</sup> (Mpa) (min.)  | ASTM D638  |
| Ultimate Elongation            | 350 % (min)                        | ASTM D638  |
| Density                        | 1.05± 0.2 gm/cm <sup>3</sup>       | ASTM D792  |
| Hardness                       | 45 ±10 Shore D                     | ASTM D2240 |
| Water absorption               | 0.2 % (max.)                       | ASTM D570  |
| <b>Thermal</b>                 |                                    |            |
| Accelerated ageing             | (120°C for 500 hrs)                | ASTM D2671 |
| Tensile Strength               | 11 N/mm <sup>2</sup> (Mpa) (min.)  | ASTM D638  |
| Ultimate Elongation            | 300 % (min.)                       | ASTM D638  |
| Low Temperature Flexibility    | No Cracking                        | ASTM D2671 |
| (-40°C for 4 hrs.)             |                                    |            |
| Heat Shock (250°C for 30 min.) | No cracking or flowing             | ESI 09-11  |
| Shrink Temperature             | 125°C                              | IEC 216    |
| Continuous Temperature Limit   | -40 to +100°C                      | IEC 216    |
| <b>Electrical</b>              |                                    |            |
| Dielectric Strength            | 12 kV/mm.(min)                     | ASTM D149  |
| Volume Resistivity             | 1 x 10 <sup>14</sup> Ohm.cm (min.) | ASTM D257  |
| Dielectric constant            | 5 (max.)                           | ASTM D150  |

## Selection Chart All dimensions are in mm

| CODE NO.    | Ds (Min.) | Df (Max.) | Ls (Min.) | Tf(±10%) | CABLE RANGE |
|-------------|-----------|-----------|-----------|----------|-------------|
| GEC 001 S   | 6         | 2         | 25        | 2.0      | 2.5 - 4     |
| GEC 001 SA* | 8         | 2         | 25        | 2.0      | 2.5 - 6     |
| GEC 001     | 12        | 4         | 40        | 2.3      | 5 - 8       |
| GEC 001 L   | 12        | 4         | 58        | 2.3      | 5 - 8       |
| GEC 001 A   | 14        | 4         | 40        | 2.3      | 5 -11       |
| GEC 001 AL  | 14        | 4         | 58        | 2.3      | 5 -11       |
| GEC 101     | 20        | 7.5       | 55        | 2.3      | 10 - 16     |
| GEC 101 L   | 20        | 8         | 75        | 2.5      | 10 - 16     |
| GEC 101 A   | 25        | 8         | 55        | 2.3      | 10 - 20     |
| GEC 101 AL  | 25        | 8         | 75        | 2.5      | 10 - 20     |
| GEC 102     | 30        | 11        | 75        | 2.5      | 13 - 26     |
| GEC 102 L*  | 30        | 11        | 110       | 2.5      | 13 - 26     |
| GEC 102 A   | 35        | 11        | 75        | 2.5      | 13 - 30     |
| GEC 102 AL* | 35        | 11        | 115       | 2.5      | 13 - 30     |
| GEC 201     | 40        | 15        | 90        | 3.3      | 17 - 35     |
| GEC 201 L   | 40        | 15        | 120       | 3.3      | 17 - 35     |
| GEC 201 A   | 45        | 15        | 90        | 3.3      | 17 - 40     |
| GEC 201 AL  | 45        | 15        | 120       | 3.3      | 17 - 40     |
| GEC 301     | 55        | 25        | 125       | 3.5      | 30 - 47     |
| GEC 301 L   | 55        | 25        | 170       | 3.5      | 30 - 47     |
| GEC 301 A   | 63        | 25        | 125       | 3.5      | 30 - 55     |
| GEC 301 AL  | 63        | 25        | 170       | 3.5      | 30 - 55     |
| GEC 401     | 75        | 35        | 140       | 4.0      | 42 - 68     |
| GEC 401 L   | 75        | 35        | 180       | 4.0      | 42 - 68     |
| GEC 401 A   | 85        | 36        | 140       | 4.0      | 42 - 78     |
| GEC 401 AL  | 85        | 35        | 180       | 4.0      | 42 - 78     |
| GEC 501     | 100       | 45        | 160       | 4.0      | 55 - 90     |
| GEC 501 L   | 100       | 45        | 200       | 4.0      | 55 - 90     |
| GEC 501 A   | 120       | 45        | 160       | 4.0      | 55 - 110    |
| GEC 501 AL  | 120       | 45        | 200       | 4.0      | 55 - 110    |
| GEC 601     | 130       | 60        | 160       | 4.6      | 75 - 120    |
| GEC 601 L   | 130       | 65        | 300       | 4.6      | 75 - 120    |
| GEC 701     | 158       | 60        | 165       | 4.6      | 75 - 145    |
| GEC 701 N   | 158       | 65        | 165       | 5.5      | 75 - 145    |
| GEC 701 L   | 160       | 65        | 300       | 4.5      | 75 - 145    |
| GEC 701 AL  | 170       | 65        | 300       | 4.5      | 75 - 145    |
| GEC 701 XXL | 180       | 75        | 585       | 3.8      | 85 - 160    |
| GEC 801 S   | 190       | 125       | 220       | 4.0      | 140 - 165   |
| GEC 801     | 230       | 125       | 220       | 4.0      | 140 - 200   |
| GEC 901     | 310       | 120       | 220       | 7.0      | 140 - 280   |
| GEC 1001    | 400       | 204       | 220       | 6.0      | 230 - 360   |
| GEC 1101    | 500       | 204       | 220       | 6.0      | 230 - 460   |

\* New sizes D : Internal Diameter; s : as supplied; f : after free recovery

