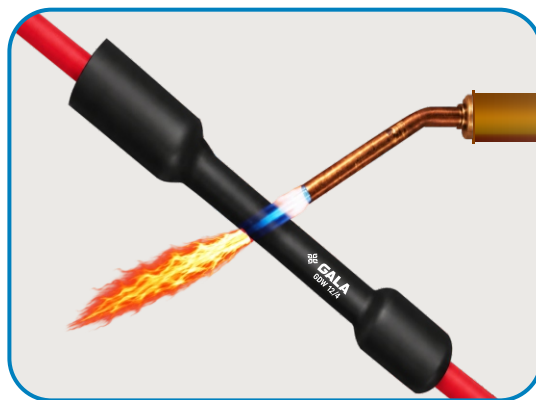




GDW is a dual wall tubing manufactured by co-extrusion of polyolefin and hot melt adhesive. It is designed to provide both insulation and sealing for protected articles.

## APPLICATIONS:

- ❖ Provides a permanent waterproof barrier and environmental seal for electrical components such as wire splices and harnesses in the automobile and communication industries.
- ❖ Used as an alternative to moulded parts and cable breakouts.
- ❖ High shrink ratio enables insulation of cables with connectors of various sizes, making it suitable for use in telecommunication, industrial equipment, automotive, and avionics applications.

## Technical Specification\*

| PROPERTIES                    | VALUE                                         | STANDARD    |
|-------------------------------|-----------------------------------------------|-------------|
| <b>Physical</b>               |                                               |             |
| Tensile Strength              | 9 N/mm <sup>2</sup> (Mpa) (min.)              | ASTM D638   |
| Ultimate Elongation           | 300% (min.)                                   | ASTM D638   |
| Water Absorption              | 0.15% (max.)                                  | ASTM D570   |
| Specific Gravity              | 1.4                                           | ASTM D792   |
| Longitudinal Change           | -10% (max.)                                   | ASTM D638   |
| <b>Thermal</b>                |                                               |             |
| Operating Temp. (outer wall)  | -55°C to +125°C                               | IEC 216     |
| Heat Shock (250°C for 4 hrs.) | No dripping, cracking or flowing (outer wall) |             |
| Flammability                  | Pass                                          | ASTM D2671  |
| <b>Chemical</b>               |                                               |             |
| Fungus Resistance             | Inert                                         | MIL-1-7444  |
| Copper Corrosion              | Good                                          | ASTM D2671B |
| Chemical Resistance           | Good                                          | ASTM D2671  |
| <b>Electrical</b>             |                                               |             |
| Dielectric Strength           | >15kV/mm                                      | ASTM D2671  |
| Di-electric Constant          | 3.0 (max.)                                    | ASTM D150   |
| Volume Resistivity            | 1 x 10 <sup>13</sup> Ohm.cm (min.)            | ASTM D257   |

## Selection Chart : 3:1

| Part Number/Size | Internal Dia. (mm) |           | Recovered Thickness (Incl. Adhesive) (mm) | Recovered Adhesive (Thickness) (mm) | Standard Package |
|------------------|--------------------|-----------|-------------------------------------------|-------------------------------------|------------------|
|                  | Supplied           | Recovered |                                           |                                     |                  |
| GDW 3/1          | 3.0                | 1.0       | 0.9                                       | 0.35                                | 200m/spool       |
| GDW 6/2          | 6.0                | 2.0       | 1.1                                       | 0.40                                | 50m/spool        |
| GDW 9/3          | 9.0                | 3.0       | 1.3                                       | 0.50                                | 30m/spool        |
| GDW 12/4         | 12.0               | 4.0       | 1.5                                       | 0.60                                | 30m/spool        |
| GDW 18/6         | 18.0               | 6.0       | 1.9                                       | 0.70                                | 30m/spool        |
| GDW 24/8         | 24.0               | 8.0       | 2.2                                       | 0.80                                | 25m/spool        |
| GDW 30/10        | 30.0               | 10.0      | 2.3                                       | 0.90                                | 25m/spool        |
| GDW 39/13        | 39.0               | 13.0      | 2.4                                       | 0.90                                | 25m/spool        |
| GDW 50/17        | 50.0               | 17.0      | 2.4                                       | 0.90                                | 25m/spool        |

## GENERAL PRODUCT PROPERTIES:

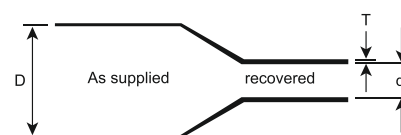
- ❖ Shrink ratio: 3:1 and 4:1
- ❖ Operating temperature range: -55°C to +125°C
- ❖ Resistant to weathering and UV rays
- ❖ Resistant to chemicals, copper corrosion, and fungus
- ❖ Dielectric strength: 15 kV/mm
- ❖ Meets RoHS Compliance
- ❖ Meets IP68 (Ingress Protection)

## Selection Chart : 4:1

| Part Number/Size | Internal Dia. (mm) |           | Recovered Thickness (Incl. Adhesive) (mm) | Recovered Adhesive (Thickness) (mm) | Standard Package |
|------------------|--------------------|-----------|-------------------------------------------|-------------------------------------|------------------|
|                  | Supplied           | Recovered |                                           |                                     |                  |
| GDW 4/1          | 4.0                | 1.0       | 1.05                                      | 0.40                                | 200m/spool       |
| GDW 6/1.5        | 6.0                | 1.5       | 1.15                                      | 0.40                                | 100m/spool       |
| GDW 8/2          | 8.0                | 2.0       | 1.20                                      | 0.40                                | 50m/spool        |
| GDW 12/3         | 12.0               | 3.0       | 1.50                                      | 0.60                                | 30m/spool        |
| GDW 16/4         | 16.0               | 4.0       | 1.80                                      | 0.60                                | 30m/spool        |
| GDW 24/6         | 24.0               | 6.0       | 2.60                                      | 0.75                                | 25m/spool        |

## SPECIFICATIONS:

IEC, ASTM, UI224 AND MIL-SPEC



D : Dia as Supplied | d : Dia as Free Recovered | T : Free Recovered Wall Thickness