# DR Diesel Resistant Heat-shrinkable Tubing

DR · Heat-shrinkable Tubing Series

## Description

DR diesel resistant heat-shrinkable tubing is made of special elastomer with a 2:1 shrinkage rate. Resistant to high temperature, flame retardant, oil and chemicals, flexible and especially resistant to diesel. Widely used for aviation, aerospace and military cables and wire harnesses, and automotive wire harnesses, with good resistance to diesel, aviation fuel, hydraulic fluid, lubricating oil and more.

## Product Features

- High Temperature, Flame-retardant, Oil & Chemical Resistant
- Flexible, Oil-resistant, Especially Diesel
- Operating Temperature: -75℃~150℃
- Complete Shrinkage Temperature: 175℃
- Conforms to MIL-DTL-23053/16



## Standard / Certification

MIL-DTL-23053/16 · ASTM D638

## Performance Indicators

| item | Test Method | Index | Typical Value |
|---|---|---|---|
| Tensile strength (Mpa) | ASTM D638 | ≥8 | ≥16 |
| Breakage elongation (%) | ASTM D638 | ≥250% | ≥500% |
| Min. complete shrinkage temp. | | 175℃ | 175℃ |
| Axial shrinkage rate | | ±10% | ±5% |
| Tensile strength after aging | | ≥10.3Mpa | ≥14Mpa |
| Elongation after aging | | ≥200% | ≥450% |
| Cold impact (-65℃/4h) | | No embrittlement, no crack | No embrittlement, no crack |
| Thermal shock (200℃/4h) | | No flowing, no crack | No flowing, no crack |
| Tensile strength (diesel) | | ≥10.4Mpa | ≥15Mpa |
| Elongation (diesel) | | ≥200% | ≥400% |
| Tensile strength (diesel 50℃) | | ≥12Mpa | |
| Elongation (diesel 50℃) | | ≥400% | |
| Quality increase | | ≤12% | |

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## Product Specifications

| Spec (Inch) | Min Inner Before (mm) | Max Inner After (mm) | Wall Thickness (mm) | Supply Length (m) |
|---|---|---|---|---|
| 1/8 | 3.2 | 1.6 | 0.75±0.15 | 50 |
| 3/16 | 4.8 | 2.4 | 0.82±0.15 | 50 |
| 1/4 | 6.4 | 3.2 | 0.90±0.15 | 50 |
| 3/8 | 9.5 | 4.75 | 1.02±0.20 | 50 |
| 1/2 | 12.7 | 6.35 | 1.22±0.20 | 30 |
| 3/4 | 19.05 | 9.5 | 1.45±0.28 | 30 |
| 1 | 25.4 | 12.7 | 1.78±0.28 | 30 |
| 1-1/2 | 38.1 | 19.05 | 2.41±0.41 | 15 |
| 2 | 50.8 | 25.4 | 2.79±0.41 | 1 |

## Common Product Specifications

| Spec (Inch) | Min Inner Before (mm) | Max Inner After (mm) | Wall Thickness (mm) | Supply Length (m) |
|---|---|---|---|---|
| 1/8 | 3.2 | 1.6 | 0.76 | 50 |
| 3/16 | 4.8 | 2.4 | 0.84 | 50 |
| 1/4 | 6.4 | 3.2 | 0.89 | 50 |
| 3/8 | 9.5 | 4.7 | 1.02 | 50 |
| 1/2 | 12.7 | 6.4 | 1.22 | 30 |
| 5/8 | 15.9 | 7.9 | 1.40 | 30 |
| 3/4 | 19.1 | 9.5 | 1.45 | 30 |
| 7/8 | 22.2 | 11.1 | 1.53 | 30 |
| 1 | 25.4 | 12.7 | 1.78 | 30 |
| 1-1/4 | 31.8 | 15.9 | 1.91 | 30 |
| 1-1/2 | 38.1 | 19.1 | 2.41 | 15 |
| 2 | 51.8 | 25.4 | 2.79 | 1 |

## Thin-wall Product Specifications

| Spec (Inch) | Min Inner Before (mm) | Max Inner After (mm) | Wall Thickness (mm) | Supply Length (m) |
|---|---|---|---|---|
| 1/8 | 3.2 | 1.6 | 0.76 | 50 |
| 3/16 | 4.8 | 2.4 | 0.84 | 50 |
| 1/4 | 6.4 | 3.2 | 0.89 | 50 |
| 3/8 | 9.5 | 4.7 | 0.89 | 50 |
| 1/2 | 12.7 | 6.4 | 0.89 | 30 |
| 3/4 | 19.1 | 9.5 | 1.07 | 30 |
| 1 | 25.4 | 12.7 | 1.25 | 30 |
| 1-1/2 | 38.1 | 19.1 | 1.40 | 15 |
| 2 | 51.8 | 25.4 | 1.65 | 15 |

## Notes

- Other pipes can be provided in accordance with customers' demands.

# DR Diesel Resistant Heat-shrinkable Tubing

## Product Advantages

- **High Temperature, Flame-retardant, Oil & Chemical Resistant**
  Made of special elastomer — resistant to high temperature, flame retardant, oil and chemicals with stable performance.
- **Flexible, Especially Diesel Resistant**
  Flexible tubing with especially excellent resistance to diesel.
- **Operating Temperature -75℃~150℃**
  Wide temperature range from -75℃ to 150℃.
- **Complete Shrinkage Temperature 175℃**
  Complete shrinkage temperature of 175℃ for quick and reliable shrinking.
- **Conforms to MIL-DTL-23053/16**
  Conforms to military specification MIL-DTL-23053/16.

## Application Scenarios

- **Aviation**
  Diesel and high-temperature resistant protection for aviation cable harnesses.
- **Aerospace**
  High-temperature and oil-resistant protection for aerospace cable harnesses.
- **Military**
  Protection for military cable harnesses, conforming to MIL-DTL-23053/16.
- **Automotive**
  Diesel, oil and high-temperature resistant protection for automotive wire harnesses.