

**FLEXIBLE POLYOLEFIN
2 : 1 Shrink Ratio
PBDE - Free**

UL/CSA RECOGNIZED 125° C and 600V (VW-1)



RoHS/RoHS2 Compliant

TYPICAL FEATURES

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| <p>1) Sumitube F2(Z) is a very flexible, low recovery temperature, flame-retarded, heat-shrinkable polyolefin tubing that is recognized by Underwriters' Laboratories (UL) under Subject 224 as UL VW-1, and the Canadian Standards Association (CSA) at 125°C. Sumitube F2(Z) is PBDE & PBB-free.</p> <p>2) Low recovery temperature benefits the user in more rapid installation, with less potential damage to heat sensitive component insulation systems.</p> | <p>3) Shrink temperature is 90° C.</p> <p>4) Operating temperature range is -55° C to +125° C.</p> <p>5) Sumitube F2(Z) is recommended for all general purpose applications such as insulating, color coding, bundling and light harness jacketing where UL or CSA recognition as VW-1 rated material is desirable.</p> <p>6) Sumitube F2(Z) is a direct replacement for Sumitube F2.</p> |
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STANDARD SIZES

| SIZE | INSIDE DIAMETER AS SUPPLIED (MIN) | | INSIDE DIAMETER AFTER RECOVERY (MAX) | | WALL THICKNESS AFTER RECOVERY (NOM) | |
|-------|-----------------------------------|-------|--------------------------------------|------|-------------------------------------|------|
| | INCH | (MM) | INCH | (MM) | INCH | (MM) |
| 3/64 | .046 | 1.2 | .023 | 0.6 | .016 | 0.40 |
| 1/16 | .063 | 1.6 | .031 | 0.8 | .017 | 0.43 |
| 3/32 | .093 | 2.4 | .046 | 1.2 | .020 | 0.51 |
| 1/8 | .125 | 3.2 | .062 | 1.6 | .020 | 0.51 |
| 3/16 | .187 | 4.8 | .093 | 2.4 | .020 | 0.51 |
| 1/4 | .250 | 6.4 | .125 | 3.2 | .025 | 0.64 |
| 3/8 | .375 | 9.5 | .187 | 4.8 | .025 | 0.64 |
| 1/2 | .500 | 12.7 | .250 | 6.4 | .025 | 0.64 |
| 3/4 | .750 | 19.1 | .375 | 9.5 | .030 | 0.76 |
| 1 | 1.000 | 25.4 | .500 | 12.7 | .035 | 0.89 |
| 1 1/2 | 1.500 | 38.1 | .750 | 19.1 | .040 | 1.02 |
| 2 | 2.000 | 50.8 | 1.000 | 25.4 | .045 | 1.14 |
| 3 | 3.000 | 76.2 | 1.500 | 38.1 | .050 | 1.27 |
| 4 | 4.000 | 101.6 | 2.000 | 50.8 | .055 | 1.40 |

Standard Colors: Black, White, Red, Yellow (Other colors subject to factory acceptance and quote)
Standard Package: Spooled (S) or 4 foot lengths (4'). Note: Metric sizes also available per factory quote.
How to Order: (Type of material) (Size) (Color) (Packaging)
Example: F2(Z) 1/4 Black S

F2(Z) Specification Values

| PROPERTY (UNITS) | TEST METHOD | REQUIREMENT |
|--|--|--|
| Physical: Tensile strength (psi) Elongation (%) Specific gravity Low temperature flex (-55°C) Heat resistance (158°C, 168 Hrs.) Elongation (%) Secant modulus (psi) Deformation (125°C, 1 Hr.) (%) Longitudinal change (%) | UL 224 UL 224 ASTM D792 AMS-DTL-23053 UL 224 ASTM D882 UL 224 AMS-DTL-23053 | 1500 MIN. 200 MIN. 1.35 MAX. No cracking 100 MIN. 25000 MIN. 50 MAX. ±5 |
| Electrical: Dielectric withstand (volts) Volume resistivity (ohm-cm) | UL 224 UL 224 | 2500 MIN. 1.0 X 10 ¹⁴ MIN. |
| Chemical: Corrosion Copper stability (158°C 168 Hrs.) Elongation (%) Water absorption (%) Flammability Shrink temperature, nominal | UL 224 UL 224 ASTM D570 UL 224 VW-1 --- | No corrosion 100 MIN. 0.5 MAX. pass 90°C |

Specification reference: UL 224 125°C, 600V, VW-1
 File E48762 YDPU2
 CSA-C22.2 No. 198-M1986 125°C, 600V
 File LR33298

Marking: SUMITUBE F2(Z) is surface printed with recognized UL / CSA markings.


SUMITOMO ELECTRIC
INTERCONNECT PRODUCTS INC.
www.seipusa.com

915 Armorlite Drive
 San Marcos, CA 92069

Telephone: (800) 758-3515
 FAX: (800) 758-3517

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