SFR

Very flexible, flame-retardant silicone elastomer tubing

FAX ID	Description
2190	Data sheet
2191	RW-3011

Applications
Provides cable jacketing, harness protection, and strain relief for electronic components, semiconductor leads, and wire splices. Ideal for applications that require flexibility over a wide range of operating temperatures.

Operating Temperature Range
–75°C to 180°C

Features/Benefits
• Outstanding low-temperature flexibility.
• Resistance to hydraulic fluids, fuel, and lubricating oils.
• Very good ablative characteristics: when exposed to flame, surface turns to insulative char or "ablates."

Installation
Minimum shrink temperature: 135°C
Minimum full recovery temperature: 175°C

Specifications/Approvals

Series	Military	Raychem
SFR	MIL-DTL-23053/10*	RW-3011
	MIL-R-46846, Type II, Class 1	

*Formerly MIL-I-23053/10.

Product Dimensions (mm/*in*)

Size	Inside diameter Minimum expanded as supplied		Maximum recovered after heating		Wall thickness Recovered after heating**	
1/4	6.4	(.250)	3.6	(.143)	0.88 ±.25	(.035 ±.010)
3/8	9.5	(.375)	5.4	(.214)	1.02 ±.25	(.040 ±.010)
1/2	12.7	(.500)	7.3	(.286)	1.21 ±.38	(.048 ±.015)
5/8	15.9	(.625)	9.1	(.357)	1.32 ±.38	(.052 ±.015)
3/4	19.1	(.750)	10.9	(.428)	1.44 ±.38	(.057 ±.015)
7/8	22.2	(.875)	12.7	(.500)	1.65 ±.38	(.065 ±.015)

Size	Inside diameter Minimum expanded as supplied		Maximum recovered after heating		Wall thickness Recovered after heating**	
1	25.4	(1.000)	14.5	(.570)	1.77 ±.51	(.070 ±.020)
1 1/4	31.8	(1.250)	18.1	(.714)	2.21 ±.51	(.087 ±.020)
1 1/2	38.1	(1.500)	21.8	(.857)	2.41 ±.51	(.095 ±.020)
1 3/4	44.5	(1.750)	25.4	(1.000)	2.71 ±.51	(.107 ±.020)
2	50.8	(2.000)	29.0	(1.140)	2.79 ±.51	(.110 ±.020)

**Wall thickness will be less if tubing recovery is restricted during shrinkage.

Ordering Information

Color	Standard	Black (-0)
Size selection	Always order the largest size that will shrink snugly over the component to be covered. Special order sizes are available upon request.	
Standard packaging	On spools.	
Ordering description	Specify product name, size, and color (for example, SFR 1/4-0).	

Users should independently evaluate the suitability of the product for their application.