



A division of CSA Technical Solutions, LLC
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2 to 1 Polyolefin Heat Shrink Tubing

The most popular Heat shrink tubing for electrical insulation and bonding cables in a wide range of colors and shrink sizes. 2 to 1 Shrink tubing means the material shrinks to half of the original diameter when heated using an oven or hot air gun.

Features:

- 2:1 Shrink Ratio (shrinks to 50% of its original diameter)
- Meets requirements of SAE AMS-DTL-23053/5 (formerly MIL-I-23053/5, MIL-DTL-23053/5), Classes 1, 2 (Clear), and 3
- UL 224 VW-1 and CSA OFT recognized
- Maximum Continuous use temperature 135°C
- **Colored Heat Shrink Tubing:** We carry 12 standard heat shrink colors: Black, Clear, Red, White, Blue, Yellow, Brown, Gray, Orange, Green, Violet and Yellow/Green
- Shrink Temperature of 120°C and operating temperature of -55°C to + 135°C
- Crosses to : Sumitomo B2, Raychem RNF-100, Alpha FIT-221, 3M FP301 heat shrink, Canusa CPX-100, LG GSHS-1635F
- Typical applications include: Insulation, Wire Identification, Wire Bundling, Mechanical Protection, Color Coding, Lightweight Harnessing, Physical/Electrical Protection of Components, Strain Relief, and Solder Insulation.
- RoHS and RoHS2 compliant
- Range of rolls and sizes, some sizes are sold by the foot other sizes range from 25 foot rolls to 500 foot rolls, as well as optional 4 foot pieces.
- Other 2 to 1 Polyolefin options including [Pre cut Heat Shrink](#), [Low Temperature Shrink Tubing](#) and [Shiny Heat Shrink](#) are also available in various diameters and lengths.

Specifications/Approvals:

- **Military:** AMS-DTL 23053/5 Class 1 and Class 3 (Clear = Class 2) (Formerly Mil- I-23053/4)
- **Underwriters Lab:** UL 224 600V, 125°C, VW-1. CSA C22.2 RoHS, REACH compliant
- **Crosses to:** Sumitomo B2, Raychem RNF-100, Alpha FIT-221, 3M FP301, FP301V, Canusa CPX100, LG GSHS-1635F

Dimensions

Expanded					Recovered			
Internal PN	Mil Spec #	Nominal	Inside Diameter		Inside Diameter		Minimum Wall Thickness	
	AMS-DTL- 23053/5-	Size	in	mm	In	mm	in	mm
HS2-0047	101 and 301	3/64"	0.046	1.2	0.023	0.58	0.018	0.45
HS2-0063	102 and 302	1/16"	0.063	1.6	0.031	0.79	0.018	0.45
HS2-0094	103 and 303	2/32"	0.093	2.4	0.046	1.17	0.019	0.50
HS2-0125	104 and 304	1/8"	0.125	3.2	0.062	1.57	0.019	0.50
HS2-0188	105 and 305	3/16"	0.187	4.8	0.093	2.36	0.019	0.50
HS2-025	106 and 306	1/4"	0.250	6.4	0.125	3.18	0.026	0.65
HS2-0375	107and 307	3/8"	0.375	9.5	0.187	4.75	0.026	0.65
HS2-050	108 and 308	1/2"	0.50	12.7	0.25	6.35	0.029	0.75
HS2-075	109 and 309	3/4"	0.75	19.1	0.37	9.35	0.035	0.90
HS2-100	110 and 310	1"	1.00	25.4	0.50	12.7	0.039	1.00
HS2-125	N/A	1-1/14"	1.25	32.2	0.63	16	0.039	1.00
HS2-150	111 and 311	1-1/2"	1.20	38.1	0.75	12.7	0.039	1.00
HS2-200	112 and 312	2"	2.00	50.8	1	25.4	0.045	1.15
HS2-300	113 and 313	3"	3.00	76.2	1.5	38.1	0.049	1.25
HS2-400	114 and 314	4"	4.00	102	2	50.8	0.055	1.40
HS2-500	N/A	5"	5.00	120	2.5	60	0.059	1.50
HS2-600	N/A	6"	6.00	150	3	75	0.060	1.52

*Clear is Class 2, so for example 1/4" Clear would be AMS-DTL-23053/5-206

Color Codes: -0 Black, -1 Brown, -2 Red, -3 Orange, -4 Yellow, -5 Green, -6 Blue, -7 Violet, -8 Gray, -9 White, -C Clear