

## Mil-I-7444 Lo-Temp PVC Tubing

Cary Industries M7444 tubing is an extruded Polyvinylchloride tubing manufactured to withstand temperatures as low as -70C. The low temperature characteristics of 7444 material produces unusual flexibility and high cut through resistance with maintenance of dielectric strength. This material is recommended for harnessing, cable and conduit installations where low temperatures are encountered.

Mil-I-7444 AWG	Nominal ID		Wall Thickness		Mil-I-7444	Nominal ID		Wall Thickness	
	in	mm	in	mm		in	mm	in	mm
24	.022	0.56	.012	0.30	<b>R313</b>	.313	7.95	.025	0.64
22	.027	0.69	.012	0.30	<b>R375</b>	.375	9.53	.025	0.64
20	.034	0.86	.016	0.41	<b>R438</b>	.438	11.12	.025	0.64
19	.038	0.97	.016	0.41	<b>R500</b>	.500	12.70	.025	0.64
18	.042	1.07	.016	0.41	<b>R562</b>	.562	14.29	.030	0.76
17	.047	1.19	.016	0.41	<b>R625</b>	.625	15.88	.030	0.76
16	.053	1.35	.016	0.41	<b>R750</b>	.750	19.05	.035	0.89
15	.059	1.50	.016	0.41	<b>R875</b>	.875	22.23	.035	0.89
14	.066	1.68	.016	0.41	<b>1R00</b>	1.00	25.40	.035	0.89
13	.076	1.93	.016	0.41	<b>1R25</b>	1.25	31.75	.040	1.02
12	.085	2.16	.016	0.41	<b>1R50</b>	1.50	38.10	.045	1.14
11	.095	2.41	.016	0.41	<b>1R75</b>	1.75	44.45	.055	1.40
10	.106	2.69	.016	0.41	<b>2R00</b>	2.00	50.80	.060	1.52
9	.118	3.00	.020	0.51	<b>2R25</b>	2.25	57.15	.065	1.65
8	.133	3.38	.020	0.51	<b>2R50</b>	2.50	63.50	.070	1.78
7	.148	3.76	.020	0.51					
6	.166	4.21	.020	0.51					
5(3/16")	.186	4.72	.020	0.51					
4	.208	5.28	.020	0.51					
3	.234	5.94	.020	0.51					
2	.263	6.68	.020	0.51					
1	.294	7.47	.020	0.51					
0	.330	8.38	.020	0.51					

Mil-I-7444 Class 1-Types 1,3  
Available colors: black and clear      Available on spools

Property	Mil-I-7444 Requirements	Typical Performance
Dielectric Strengths-Dry	Min 200 VPM	545 VPM
-Wet	20% max change	493 VPM
Tensile Strength-Unaged	Min 1800 PSI	2150 PSI
-Aged	15% max change	2.8% change
Cold Brittleness-Unaged	Max -67.9C (-90F)	-74C (-101F)
-Aged	Max -65C (-85F)	-72C (-98F)
Elongation-Unaged	Min 200%	352%
-Aged	15% max change	1.6% max change
Flame Resistance	Max 15 seconds	Self-extinguishing in 9.6
Oil Resistance	No tack or decomposition, No cracks 180 bend around 1/4" rod	Conforms
Corrosion Resistance	No corrosion of copper or aluminum	Conforms
Fungus Resistnace	No fungus growth	Conforms
Transparency(Type 1)	Max #2 Hillige color comparator	#1 in all size ranges
Specific Gravity	Max 1.45	1.19 Avg.

\*Above values are typical performance data and should not be used as design data.