

STANDARDS FOR CUT LENGTH TOLERANCES FOR UNSPLICED EXTRUSIONS

Unspliced extrusions are classified as those that generally require only extruding, vulcanizing and cutting to length. They are of various cross sectional designs and do not include lathe cut parts, formed tubing, or precision ground and cut parts. They are generally packed in a straight or coiled condition after being measured and cut to length.

The following tables are to be used to convey to the manufacturer the limits that are desired by the purchaser.

It should be understood by the design engineers that due to the stretch factor in rubber, a period of conditioning at room temperature must be allowed before measurements for length are taken. Accurate measurement of long lengths is difficult because they stretch or compress easily. Where close tolerances are required on long lengths, a specific technique of measurement should be agreed upon between purchaser and manufacturer.

Table 16 - Cut Length Tolerance Table for Unspliced Extrusion

RMA Class		1 (Precision)	2 (Commercial)	3 (Non-Critical)
Drawing Designation		L1	L2	L3
Length (in Millimeters)				
Above 0	Up to 40	±0.7	±1.0	±1.6
40	63	0.8	1.3	2.0
63	100	1.0	1.6	2.5
100	160	1.3	2.0	3.2
160	250	1.6	2.5	4.0
250	400	2.0	3.2	5.0
400	630	2.5	4.0	6.3
630	1000	3.2	5.0	10.0
1000	1600	4.0	6.3	12.5
1600	2500	5.0	10.0	16.0
2500	4000	6.3	12.5	20.0
4000		0.16%	0.32%	0.50%
Length (in Inches)				
Above 0	Up to 1.6	±0.03	±0.04	±0.06
1.6	2.5	0.03	0.05	0.08
2.5	4.0	0.04	0.06	0.10
4.0	6.3	0.05	0.08	0.13
6.3	10.0	0.06	0.10	0.16
10.0	16.0	0.08	0.13	0.20
16.0	25.0	0.10	0.16	0.25
25.0	40.0	0.13	0.20	0.40
40.0	63.0	0.16	0.25	0.50
63.0	100.0	0.20	0.40	0.63
100.0	160.0	0.25	0.50	0.80
160.0		0.16%	0.32%	0.50%

Note: Special consideration on tolerances will have to be given to both extremely soft and high tensile stocks.