

Convolute Rolled Tube Products – All Resins, Cotton Fabric Substrates

Phenolic Resins - Fine Weave (linen) Cotton Fabric Substrate					
Grade	RTB320	RTB320H	RTB320S	RTB320X	RTB320Z
NEMA ¹	LE				
Color	NA/BK		NA		

Fine Weave (linen) Cotton Fabric Substrate						
Grade	RTB324	RT325	RTB326	RTB326H	RTB326X	RTB329
Resin System	Phenolic – PTFE	Phenolic – Graphite	Epoxy			Melamine
NEMA	---	---	---	---	---	---
Color	NA	BK	NA			

Inside Diameter		Wall Thickness ^A		Outside Diameter	Maximum
Minimum ^C	Maximum	Minimum ^C	Maximum	Maximum	Length ^B
0.094	0.186	0.031	0.203	0.500	24
0.187	0.249	0.031	0.218	0.625	36
0.250	0.374	0.031	0.250	0.750	36
0.375	0.624	0.031	1.062	2.500	48
0.625	1.249	0.031	1.562	3.750	48
1.250	2.999	0.031	3.125	7.500	48
3.000	4.874	0.047	2.250	7.500	48
4.875	8.999	0.062	3.500	16.000	48
9.000	23.999	0.094	3.500	31.000	48
24.000	29.999	0.125	3.500	37.000	48
30.000	48.000	0.156	3.500	55.000	48

Medium/Heavy Weave (canvas) Cotton Fabric Substrate							
Grade	RT310	RT310H	RT310S	RT315	RT342	RT342H	RT360
Resin System	Phenolic			Phenolic – Graphite	Phenolic		Phenolic – MoS2
NEMA ¹	C			---	C		---
Color	NA			BK	NA		BK

Inside Diameter		Wall Thickness ^A		Outside Diameter	Maximum Length ^B
Minimum	Maximum	Minimum	Maximum	Maximum	
0.500	0.624	0.047	1.000	2.500	48
0.625	1.249	0.047	1.562	3.750	48
1.250	2.999	0.047	3.125	7.500	48
3.000	4.874	0.062	2.250	7.500	48
4.875	8.999	0.062	5.750	20.000	48
9.000	23.999	0.094	5.750	30.000	48
24.000	29.999	0.125	5.750	41.500	48
30.000	48.000	0.156	5.750	58.000	48

I. Special Exceptions – (For tables above)		
A.	Specifying Inside Diameter and Wall Thickness is not offered in any grade where the outside of the tube is unfinished or requires lathe turning.	
B.	<p>Supplied at: Random Length = No lengths less than 12" on a 18", 18" on a 24", 30" on a 36" or 42" on a 48" standard length. Non-Trimmed is considered a random length but not trimmed to allow for maximum customer yield. Minimum Length is considered the specified length with plus or minus 1.000" allowance Cut-To-Length is: (Tube must be a finished OD) 6" - 48" cut length with maximum Outside Diameter of 0.250" - 5.000"; Tolerance of ± 0.125" (May cut all – 0.250" or all + 0.250") 12" - 48" cut length with maximum Outside Diameter of 5.001" - 18.000"; Tolerance of ± 0.250" (May cut all – 0.500" or all + 0.500") 18" - 48" cut length with maximum Outside Diameter of 18.001" - 24.000"; Tolerance of ± 0.250" (May cut all – 0.500" or all + 0.500") All grades of micro ID tubing (less than 0.188" ID) are offered as random length only. Maximum Outside Diameter is 36.000" for trimmed length. Maximum Wall for any trimmed tube is 4.0"</p>	
C.	<p>Additional Restrictions and Restricted Grades: IDs 2.000" to 3.000" with Wall Thicknesses less than 0.047" are only offered in RTB320 or RTB329, no minimum length.</p>	

II. Outside Diameter – Available Finishes		
Outside Diameter		
Minimum	Maximum	Finish
0.156	9.000	Centerless Ground (Standard), As Wound Available
4.875	9.000	Lathe Turned (Non-Standard), Contact Customer Service
9.001	24.000	Lathe Turned (Standard), As Wound Available
24.001	Maximum	As Wound (No Outside Finishing Available)

NOTE: Contact Customer Service for sizes and tolerances not listed. Micro ID Tubing (IDs less than 0.187") is offered in RTB320X, RTB320Z and RTB326X. Industrial Standards related to tolerance, finish and workmanship is assumed, unless otherwise specified. Walls greater than 0.500" thick are subject to check marks and/or cracks in the wall.

¹ For information on Specifications and Standards, see "Tube – Specification Cross Reference".