

Synflex[®]

Type 1005

Plastic Coated Single Line Tubing



Application

Type 1005 coated single line tubing is ideally suited for instrumentation and process control lines. It is the original plastic coated metal tubing. Available in 114'; 3/8" and 1/2" O.D. sizes with wall thicknesses ranging from .030" to .035"

Chemical Resistance

Withstands corrosive atmospheres found in many plants. The PVC or polyethylene jacket protects the core tube from chemical attack.

Protection Against

Electro-Galvanic Action

Prevents electro-galvanic corrosion, which could occur if the copper or aluminum tube contacted other metals. This is especially important in moist areas.

Mechanical Protection

In areas in which tubing is subjected to vibration or impact, the tubing jacket acts as a cushion.

Low Cost

Plastic jacketed copper, stainless steel or aluminum tubing costs less by outlasting more expensive alloys in a wide variety of corrosive environments.

Lower Installed Cost

Type 1005 tubing is easier to work with than exotic alloys. Long coil lengths reduce number of costly fitting connections, saving time and material costs.

Composite Product

Plastic coated tubing combines the formability and strength of metal with the corrosion resistance of plastic.

How to Specify

Example: 1005-41204 Synflex 1/4" O.D. x .030" wall PVC coated single line copper tubing, 500' lengths.

Technical Information

Specifications

Part No.	Tube Material	Tube O.D. Inches	Tube Wall Thickness Inches	Jacket Material	Jacket Thickness Inches	Max. O.D. Inches	Net Wt. lbs./ C'	Estimated Shipping Weight/ lbs.	Length/ Coil
1005-41102' 1005-41104' 1005-41105	Copper	1/4	.030	Polyethylene	.032	5/16	9.2	9.5 50.9 107.7	100 ft. 500 ft. 1000 ft.
1005-41202' 1005-41204' 1005-41205'	Copper	1/4	.030	PVC	.032	5/16	9.8	10.2 54.2 114.3	100 ft. 500 ft. 1000 ft.
1005-42104	Aluminum	1/4	.035	Polyethylene	.032	5/16	4.0	24.7	500 ft.
1005-42202' 1005-42204'	Aluminum	1/4	.035	PVC	.032	5/16	4.6	28.0 28.0	100 ft. 500 ft.
1005-44202' 1005-44204'	Stainless Steel	1/4	.035	PVC	.032	5/16	9.3	10.0 51.4	100 ft. 500 ft.
1005-61102' 1005-61104	Copper	3/8	.032	Polyethylene	.032	7/16	15.1	15.7 98.7	100 ft. 500 ft.
1005-61202' 1005-61204'	Copper	3/8	.032	PVC	.032	7/16	15.9	16.6 103.4	100 ft. 500 ft.
1005-64202' 1005-64204	Stainless Steel	3/8	.035	PVC	.032	7/16	13.5	14.2 91.0	100 ft. 500 ft.
1005-81202' 1005-84202'	Copper	1/2	.035	PVC	.032	9/16	23.1	24.2	100 ft.
	Stainless Steel	1/2	.035	PVC	.032	9/16	20.7	21.8	100 ft.

Material Characteristics

Tube Material II	Tube O.D. Inches	Max. Working Pressure PSI(100 °F)	Max. Pulling Tension lbs.	Min. Bend Radius Inches	Jacket Material	Material Standards
Copper	1/4	1450	110	1	PVC	A black, polyvinyl chloride compound which meets or exceeds ASTM 0-1047, ICEA S-61-402 and all applicable UL specifications.
AS M B68-B75 Type OHP Alloy	3/8	1025	232	1-1/4		
No. 122 Soft Annealed, Bright Seamless	1/2	825	314	1-1/2		
Aluminum					Polyethylene	Black, linear, low-density polyethylene meeting or exceeding requirements of ASTM 0-1248 Classification; Type 1, Class C, Category 4 and ASTM 0-1693 for stress crack resistance.
Alloy 3003-0 Fully Annealed Seamless	1/4	720	100	1		
Stainless Steel	1/4	5360	660	1		
Type 316 Welded and Conditioned	3/8	3430	1056	1-1/2		
Fully Annealed per ASTM A269	1/2	2520	1430	2		

For more info, contact:



GOODRICH SALES INC.

101 Royce Rd. Unit 14
Bolingbrook, IL 60040
PN: (800)522-1662 or
(630)378-0045
Fax: (630)378-0047

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