

TECHNIBOND



STANDARD & CUSTOMIZED
HIGH-TECH BONDED
HOSE, TUBING, SPIRAL
NEW VERSATILITY & TECHNIQUES
FOR INDUSTRIAL TECHNOLOGY

Catalog # 0813



**ADVANCED
TECHNOLOGY
PRODUCTS**

Phone: 937.349.4055
www.atp4pneumatics.com

TECHNIBOND®



Features

- A complete selection of standard straight and spiraled configurations in stock.
- Allows a complete customization of hose or tube groupings for versatility.
- Allows any combination of standard ATP tubing diameters and colors.
- Many configurations—flat ribbons, clusters, stacked, etc.
- Easily stripped to singular tubes with no damage or distortion.
- Stripped ends can be used with easy-to-use, push-to-connect fittings.
- Polyurethane coated electrical wire can be bonded into groupings.

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Made In USA



Introducing Technibond® from Advanced Technology Products.

This high-tech process allows ATP to bond polyurethane tubing into straight or spiral configurations creating organized groups. Ideal for applications where several tubes or spirals must travel together. Harness all of your air, oil, water and electrical needs into one complete, color-coded package.

A very important benefit of ATP's Technibond process is that it isn't molded together in a coextrusion process. This method of bonding causes bore and shape distortion. By forming the bundles in a second-step, Technibond tubing can still be used with push-to-connect fittings for easy installation, and the groups can be easily stripped/separated to any length without damaging the tubing integrity.

Technibond is an efficient and attractive way to color-code your tubing runs. Bonded tubing allows for quicker installation time of multiple lines by eliminating costly repetition and vinyl sleeving, or the second step of installing tubing identification numbers, cable ties and spiral wraps.

Technibond was originally created for OEM engineers and designers of:

- Process Controls • Pneumatic Hoists • Packaging Equipment
- Pick & Place Equipment • Automation Equipment • Robotics
- Motion Control Devices • Multiple-Controlled Pneumatic Tools

However, Technibond's versatility makes it an excellent choice for end users, as well. Plant Engineers and Maintenance Supervisors looking for a better way to troubleshoot, test and update existing equipment will find Technibond to be an ideal solution.

Choose A Standard Or Design Your Own

ATP offers a complete selection of standard, stock items in both straight and spiral styles. These products start on page 3.

We realize that your application is unique. When no ordinary Multi will do, we specialize in creating configurations to our customer's exact specifications. Any size and color of ATP tubing can be bonded together. Customizing is easy using our guide on page 9.

Other Bonding Capabilities

The Technibond process also allows us to bond materials other than polyurethane including:

- Weld Tubing • Nylon • PVC • Urethane-Jacketed Hydraulic Hose

LIMITED WARRANTY

Advanced Technology Products expressly excludes all warranties, guarantees and representations, expressed or implied, including but not limited to warranties of merchantability, material, workmanship, design and suitability for a specified or intended purpose. Products shall be free from defects in material and workmanship for a period of one (1) year after shipment. If the product purchased is defective in any way during the one (1) year period, please contact ATP for an RGA number to return the product. No unauthorized returns will be accepted. Ship product prepaid to ATP for a full evaluation. If the product is found to be defective, ATP will repair or replace the product at no charge to the customer at ATP's sole discretion.



Our Precision-made Tubing:

ATP's Technibond products start with our polyurethane (PUR) tubing. It is made from the highest-quality raw materials available. Ether-based polyurethane provides excellent hydrolysis, oil and cold resistance. PUR is strong and flexible and offers superior kink resistance compared to other tubing.

ATP's polyurethane tubing has an outside diameter made to extremely-tight tolerances. It is ideal for use with push-to-connect fittings, as well as barb-type and compression fittings for simple installation.

Custom sizes, colors and durometers are available with minimum order quantity.

*Non-standard stock colors, please check availability before ordering.

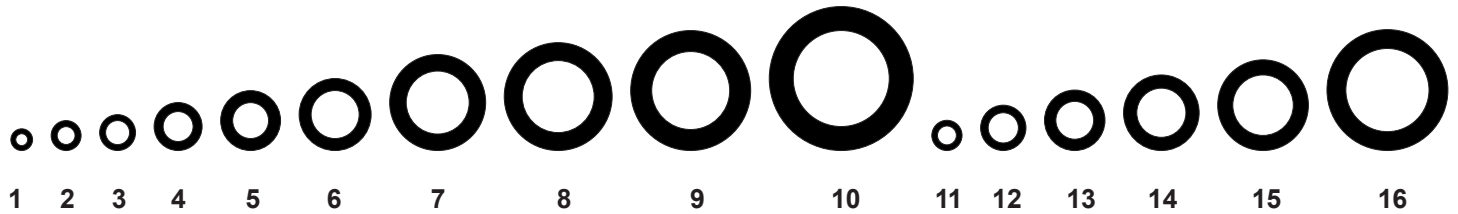
Colors Available

Black
Clear
Clear Blue
Clear Green
Clear Red
Green
Gray*
Light Blue
Light Green
Navy Blue
Orange*
Red
White
Yellow

Features

Strong
Kink Resistant
Lightweight
Flexible
Abrasion Resistant
Heat & Cold Resistant
Chemical Resistant
NSF 51 Certified
Temperature Range:
-40°F to +160°F
Durometer: Shore A 98

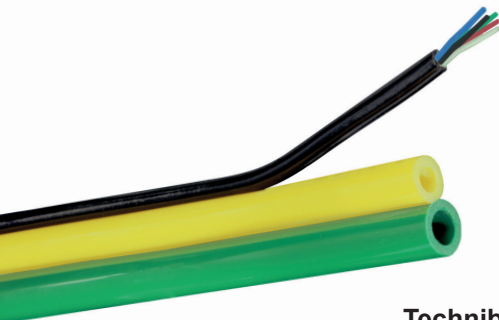
Standard Tubing Sizes and Specifications



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
OD	1/8"	5/32"	3/16"	1/4"	5/16"	3/8"	1/2"	9/16"	5/8"	3/4"	4mm	6mm	8mm	10mm	12mm	16mm
ID	1/16"	5/32"	1/8"	5/32"	3/16"	1/4"	21/64"	3/8"	13/32"	1/2"	2.5mm	4mm	5mm	6.5mm	8mm	11mm
W.P.	240	220	150	180	175	150	150	140	150	140	220	180	175	150	150	150

Illustrations are shown at actual size.

Add Electric



ATP stocks a six-conductor, 22-gauge wire, coated with polyurethane which bonds directly to our tubing. This wire can be stripped neatly to your desired length, without distortion or damage to the tubing.

Ask us about other wire types. We would be glad to work with you to meet your requirements.

Technibond...new versatility and techniques for today's industrial technology.

Straight Technibond®

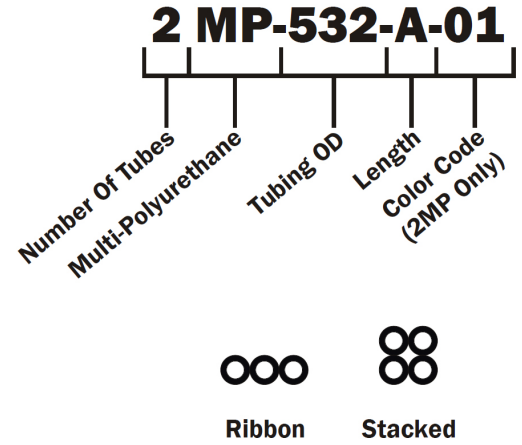
Multi-Bore, Bonded, Polyurethane Tubing

ATP has chosen it's most popular sizes, colors and configurations and now offers them as standard, stock items. Each combination features one colored tube, and one transparent tube to allow a visual inspection of the airline for impurities.

All configurations are available in both fractional and metric sizes. Fractional lengths from 25 to 1000 feet, and metric lengths from 10 to 300 meters. Pricing is based on the total length ordered. Shaded areas indicate the availability of continuous-packaged lengths.

- Two Bore**
 Our 2MP (two tubes) is available in two color combinations— black/clear blue and light blue/clear. Please specify your choice at time of order.
- Three Bore**
 3MP (three tubes) is standard in black/clear blue/light blue. All 3MP is configured in a ribbon style.
- Four Bore**
 4MP (four tubes) is standard in black/clear blue/light blue/clear. All 4MP is configured in a stacked style.

Technibond tubing can be easily stripped without damaging the tubing, making it easy to separate and route the tubes to different locations.

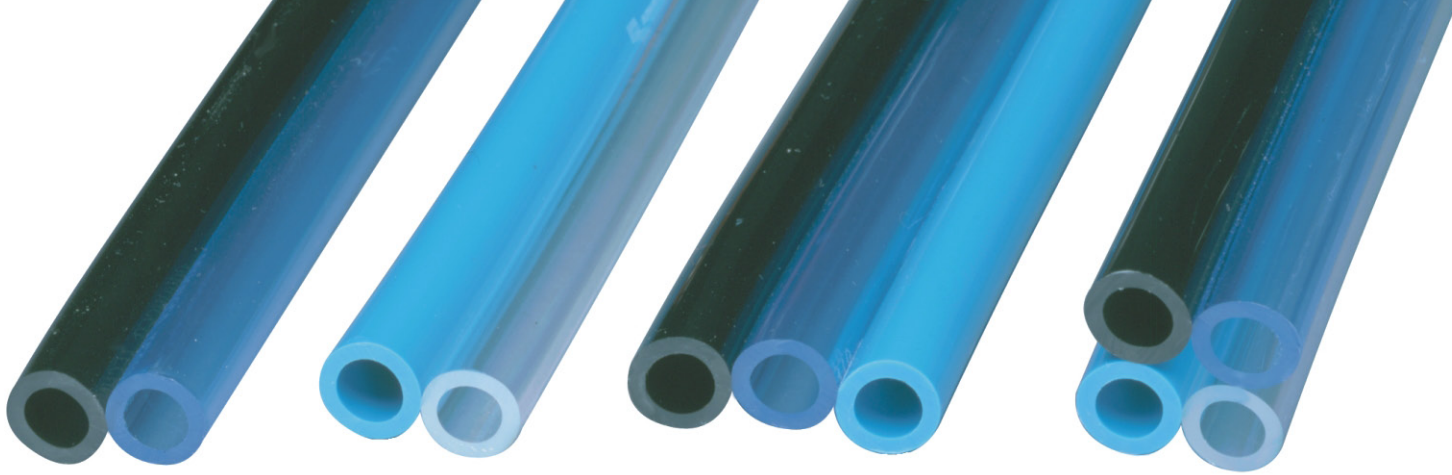


Fractional Sizes



	A 25 Feet	Weight LB	B 50 Feet	Weight LB	C 100 Feet	Weight LB	D 250 Feet	Weight LB	E 500 Feet	Weight LB	F 1000 Feet	Weight LB
TWO	2MP-532-A-01*	0.34	2MP-532-B-01*	.70	2MP-532-C-01*	1.40	2MP-532-D-01	3.50	2MP-532-E-01	7.00	2MP-532-F-01	14.00
	2MP-14-A-01	0.75	2MP-14-B-01*	1.55	2MP-14-C-01*	3.10	2MP-14-D-01*	7.50	2MP-14-E-01*	15.00	2MP-14-F-01*	30.00
	2MP-38-A-01*	1.70	2MP-38-B-01*	3.40	2MP-38-C-01*	6.80	2MP-38-D-01	17.00	N/A	-	N/A	-
	2MP-12-A-01	2.55	2MP-12-B-01*	5.10	2MP-12-C-01	10.20	N/A	-	N/A	-	N/A	-
	2MP-532-A-02*	0.34	2MP-532-B-02	0.70	2MP-532-C-02*	1.40	2MP-532-D-02	3.50	2MP-532-E-02	7.00	2MP-532-F-02	14.00
	2MP-14-A-02*	0.75	2MP-14-B-02*	1.55	2MP-14-C-02*	3.10	2MP-14-D-02	7.50	2MP-14-E-02	15.00	2MP-14-F-02*	30.00
	2MP-38-A-02*	1.70	2MP-38-B-02	3.40	2MP-38-C-02	6.80	2MP-38-D-02*	17.00	N/A	-	N/A	-
	2MP-12-A-02*	2.55	2MP-12-B-02	5.10	2MP-12-C-02	10.20	N/A	-	N/A	-	N/A	-
THREE	3MP-532-A	0.53	3MP-532-B*	0.995	3MP-532-C	2.10	3MP-532-D	5.25	3MP-532-E	10.50	N/A	-
	3MP-14-A	1.13	3MP-14-B*	2.24	3MP-14-C*	4.50	3MP-14-D	11.25	3MP-14-E	22.50	N/A	-
	3MP-38-A	2.55	3MP-38-B	6.72	3MP-38-C*	10.20	N/A	-	N/A	-	N/A	-
	3MP-12-A	3.83	3MP-12-B*	8.03	3MP-12-C	15.30	N/A	-	N/A	-	N/A	-
FOUR	4MP-532-A	0.70	4MP-532-B	1.40	4MP-532-C	2.80	4MP-532-D	7.00	4MP-532-E	14.00	N/A	-
	4MP-14-A	1.50	4MP-14-B*	2.93	4MP-14-C*	6.00	N/A	-	N/A	-	N/A	-
	4MP-38-A	3.40	4MP-38-B	6.56	4MP-38-C*	13.60	N/A	-	N/A	-	N/A	-
	4MP-12-A	5.10	4MP-12-B	10.20	N/A	-	N/A	-	N/A	-	N/A	-

* Items in bold are generally available from stock



2MP
Black & Clear Blue
Color Code: 01

2MP
Light Blue & Clear
Color Code: 02

3MP
Black, Clear Blue
& Light Blue

4MP
Black, Clear Blue
Light Blue, & Clear



Metric Sizes

4mm OD
x 2.5mm ID

6mm OD
x 4mm ID

8mm OD
x 5mm ID

10mm OD
x 6.5mm ID

12mm OD
x 8mm ID

	50 Feet	Weight LB	A 10 Meters	Weight LB	B 20 Meters	Weight LB	C 50 Meters	Weight LB	D 100 Meters	Weight LB	E 200 Meters	Weight LB	F 300 Meters	Weight LB
TWO	2MP-04M-50-01*	0.70	2MP-04M-A-01	0.46	2MP-04M-B-01*	0.92	2MP-04M-C-01	2.30	2MP-04M-D-01*	4.60	2MP-04M-E-01	9.20	2MP-04M-F-01	13.80
	2MP-06M-50-01*	1.30	2MP-06M-A-01*	0.85	2MP-06M-B-01*	1.71	2MP-06M-C-01*	4.28	2MP-06M-D-01*	8.56	2MP-06M-E-01*	17.12	2MP-06M-F-01*	25.68
	2MP-08M-50-01*	2.60	2MP-08M-A-01	1.71	2MP-08M-B-01	3.41	2MP-08M-C-01*	8.53	2MP-08M-D-01*	17.06	2MP-08M-E-01	34.12	2MP-08M-F-01*	51.18
	2MP-10M-50-01*	3.90	2MP-10M-A-01	2.56	2MP-10M-B-01	5.12	2MP-10M-C-01	12.80	2MP-10M-D-01*	25.60	N/A	-	N/A	-
	2MP-12M-50-01*	5.30	2MP-12M-A-01	3.48	2MP-12M-B-01	6.96	2MP-12M-C-01	17.40	2MP-12M-D-01*	34.80	N/A	-	N/A	-
	2MP-04M-50-02	0.70	2MP-04M-A-02*	0.46	2MP-04M-B-02	0.92	2MP-04M-C-02	2.30	2MP-04M-D-02	4.60	2MP-04M-E-02	9.20	2MP-04M-F-02	13.80
	2MP-06M-50-02	1.30	2MP-06M-A-02	0.85	2MP-06M-B-02*	1.71	2MP-06M-C-02	4.28	2MP-06M-D-02*	8.56	2MP-06M-E-02	17.12	2MP-06M-F-02	25.68
	2MP-08M-50-02	2.60	2MP-08M-A-02	1.71	2MP-08M-B-02*	3.41	2MP-08M-C-02	8.53	2MP-08M-D-02*	17.06	2MP-08M-E-02	34.12	N/A	-
	2MP-10M-50-02	3.90	2MP-10M-A-02*	2.56	2MP-10M-B-02*	5.12	2MP-10M-C-02*	12.80	N/A	-	N/A	-	N/A	-
	2MP-12M-50-02	5.30	2MP-12M-A-02	3.48	2MP-12M-B-02*	6.96	2MP-12M-C-02	17.40	N/A	-	N/A	-	N/A	-
THREE	3MP-04M-50*	1.05	3MP-04M-A	0.69	3MP-04M-B	1.38	3MP-04M-C	3.45	3MP-04M-D	6.90	3MP-04M-E	13.80	N/A	-
	3MP-06M-50*	1.95	3MP-06M-A	1.28	3MP-06M-B*	2.56	3MP-06M-C	6.40	3MP-06M-D	12.80	3MP-06M-E	25.60	N/A	-
	3MP-08M-50	3.90	3MP-08M-A	2.56	3MP-08M-B	5.12	3MP-08M-C	12.80	3MP-08M-D	25.60	3MP-08M-E	51.20	N/A	-
	3MP-10M-50*	5.85	3MP-10M-A	3.84	3MP-10M-B	7.68	N/A	-	N/A	-	N/A	-	N/A	-
	3MP-12M-50*	7.95	3MP-12M-A	5.22	3MP-12M-B	10.44	N/A	-	N/A	-	N/A	-	N/A	-
FOUR	4MP-04M-50*	1.40	4MP-04M-A	0.92	4MP-04M-B	1.84	4MP-04M-C	4.60	4MP-04M-D	9.20	4MP-04M-E	18.40	N/A	-
	4MP-06M-50*	2.60	4MP-06M-A	1.71	4MP-06M-B	3.42	4MP-06M-C	8.55	N/A	-	N/A	-	N/A	-
	4MP-08M-50*	5.20	4MP-08M-A	3.41	4MP-08M-B	6.82	4MP-08M-C	17.05	N/A	-	N/A	-	N/A	-
	4MP-10M-50	7.80	4MP-10M-A	5.12	4MP-10M-B	10.24	N/A	-	N/A	-	N/A	-	N/A	-
	4MP-12M-50	10.60	4MP-12M-A	6.96	4MP-12M-B	13.92	N/A	-	N/A	-	N/A	-	N/A	-

* Items in bold are generally available from stock

Spiraled Technibond®

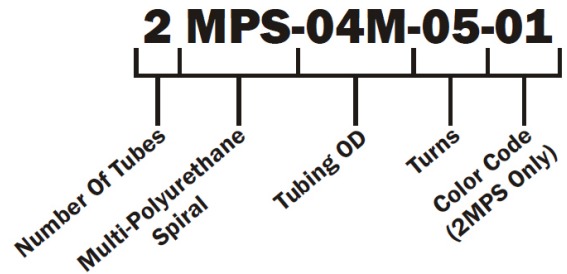
Multi-Bore, Bonded, Polyurethane Tubing

ATP offers these standard, spiraled configurations in both fractional and metric:

- Two Bore Spirals**
 Our 2MPS (two tubes) are available in two color combinations - black/clear blue (-01) and light blue/clear (-02). Please specify your color choice at time of order.
- Three Bore Spirals**
 3MPS (three tubes) are standard in black/clear blue/light blue. All 3MPS spirals are configured in a ribbon style.
- Four Bore Spirals**
 4MPS (four tubes) are standard in black/clear blue/light blue/clear. They are configured in a stacked style to allow for a more compact spiral.

Each spiral is supplied with heat shrink at the 90° bend to help eliminate tube separation within the coil. (See drawing below.)

Our Spiraled Technibond part- numbering system is based on the number of complete turns of the spiral. Other definitions you will need to know to order the proper spiral for your application will be:



2MPS
Black & Clear Blue
Color Code -01

2MPS
Light Blue & Clear
Color Code -02



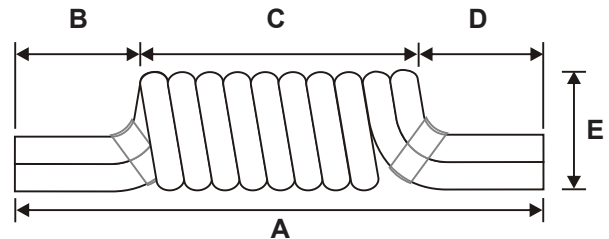
Ribbon



Stacked

Definitions

- Working Length**
 Also known as the Service Length. Defined by how far the spiral will stretch from Point A to Point B. This length includes the tails.
- Dimension A**
 The overall compressed length from the end of Tail B to the end of Tail D.
- Dimension B & D (Tails)**
 The uncoiled lengths at each end of the spiral. Tail Lengths are measured from the end of the last coil, and are included in the working length.
- Dimension C**
 The measurement of all the coils when compressed.
- Dimension E**
 The outside diameter of the coil.





Black & Clear Blue
Color Code: 01

Light Blue & Clear
Color Code: 02



Two Bore Spirals

Fractional Sizes	Tube OD	Part Number	Turns	Working Length	A	B & D	C	E	Weight LB	
 5/32" OD x 3/32" ID	5/32"	2MPS-532-05-__	5	1.20'	9-1/2"	4"	1-1/2"	7/8"	0.03	
		2MPS-532-10-__*	10	2.00'	11-1/8"	4"	3-1/8"	7/8"	0.04	
		2MPS-532-15-__	15	2.70'	12-5/8"	4"	4-5/8"	7/8"	0.05	
		2MPS-532-20-__*	20	3.50'	14-1/4"	4"	6-1/4"	7/8"	0.65	
		2MPS-532-30-__*	30	5.40'	17-1/2"	4"	9-1/2"	7/8"	0.79	
		2MPS-532-40-__*	40	6.50'	20-5/8"	4"	12-5/8"	7/8"	0.10	
	 1/4" OD x 5/32" ID	1/4"	2MPS-14-05-__	5	1.70'	10-1/2"	4"	2-1/2"	1-1/2"	0.07
			2MPS-14-10-__	10	2.90'	13"	4"	5"	1-1/2"	0.12
			2MPS-14-15-__	15	4.00'	15-1/2"	4"	7-1/2"	1-1/2"	0.17
			2MPS-14-20-__*	20	5.30'	18"	4"	10"	1-1/2"	0.23
			2MPS-14-30-__	30	7.60'	23"	4"	15"	1-1/2"	0.32
			2MPS-14-40-__*	40	10.00'	28"	4"	20"	1-1/2"	0.43
 3/8" OD x 1/4" ID	3/8"	2MPS-38-05-__	5	2.00'	11-3/4"	4"	3-3/4"	2"	0.17	
		2MPS-38-10-__	10	3.60'	15-1/2"	4"	7-1/2"	2"	0.31	
		2MPS-38-15-__	15	5.20'	19-1/4"	4"	11-1/4"	2"	0.45	
		2MPS-38-20-__	20	6.70'	23"	4"	15"	2"	0.57	
		2MPS-38-30-__*	30	9.80'	30-1/2"	4"	22-1/2"	2"	0.83	
		2MPS-38-40-__*	40	12.90'	38"	4"	30"	2"	1.10	
 1/2" OD x 21/64" ID	1/2"	2MPS-12-05-__	5	2.60'	13"	4"	5"	2-5/8"	0.44	
		2MPS-12-10-__	10	4.70'	18"	4"	10"	2-5/8"	0.79	
		2MPS-12-15-__	15	6.70'	23"	4"	15"	2-5/8"	1.12	
		2MPS-12-20-__	20	8.70'	28"	4"	20"	2-5/8"	1.46	
		2MPS-12-30-__	30	12.90'	38"	4"	30"	2-5/8"	2.16	
		2MPS-12-40-__	40	17.00'	48"	4"	40"	2-5/8"	2.83	
Metric Sizes	4mm	2MPS-04M-05-__	5	375mm	240mm	100mm	40mm	24mm	0.02	
		2MPS-04M-10-__	10	600mm	280mm	100mm	80mm	24mm	0.03	
		2MPS-04M-15-__	15	825mm	320mm	100mm	120mm	24mm	0.04	
		2MPS-04M-20-__	20	1050mm	360mm	100mm	160mm	24mm	0.05	
		2MPS-04M-30-__	30	1510mm	440mm	100mm	240mm	24mm	0.07	
		2MPS-04M-40-__	40	1970mm	520mm	100mm	320mm	24mm	0.12	
	6mm	2MPS-06M-05-__	5	510mm	260mm	100mm	60mm	37mm	0.07	
		2MPS-06M-10-__	10	860mm	320mm	100mm	120mm	37mm	0.10	
		2MPS-06M-15-__	15	1230mm	380mm	100mm	180mm	37mm	0.17	
		2MPS-06M-20-__*	20	1600mm	440mm	100mm	240mm	37mm	0.20	
		2MPS-06M-30-__*	30	2300mm	560mm	100mm	360mm	37mm	0.32	
		2MPS-06M-40-__*	40	3020mm	680mm	100mm	480mm	37mm	0.37	
	8mm	2MPS-08M-05-__	5	530mm	280mm	100mm	80mm	41mm	0.13	
		2MPS-08M-10-__	10	910mm	360mm	100mm	160mm	41mm	0.20	
		2MPS-08M-15-__	15	1300mm	440mm	100mm	240mm	41mm	0.29	
		2MPS-08M-20-__*	20	1680mm	520mm	100mm	320mm	41mm	0.38	
		2MPS-08M-30-__	30	2430mm	680mm	100mm	480mm	41mm	0.54	
		2MPS-08M-40-__*	40	3200mm	840mm	100mm	640mm	41mm	0.71	
	10mm	2MPS-10M-05-__	5	620mm	300mm	100mm	100mm	52mm	0.23	
		2MPS-10M-10-__	10	1100mm	400mm	100mm	200mm	52mm	0.35	
		2MPS-10M-15-__	15	1600mm	500mm	100mm	300mm	52mm	0.48	
		2MPS-10M-20-__*	20	2050mm	600mm	100mm	400mm	52mm	0.64	
		2MPS-10M-30-__	30	3010mm	800mm	100mm	600mm	52mm	0.95	
		2MPS-10M-40-__*	40	3960mm	1000mm	100mm	800mm	52mm	1.20	
	12mm	2MPS-12M-05-__	5	780mm	320mm	100mm	120mm	66mm	0.38	
		2MPS-12M-10-__	10	1380mm	440mm	100mm	240mm	66mm	0.62	
		2MPS-12M-15-__	15	2000mm	560mm	100mm	360mm	66mm	0.92	
		2MPS-12M-20-__	20	2620mm	680mm	100mm	480mm	66mm	1.15	
		2MPS-12M-30-__	30	3870mm	920mm	100mm	720mm	66mm	1.79	
		2MPS-12M-40-__	40	5120mm	1160mm	100mm	960mm	66mm	2.24	

* Items in bold are generally available from stock (call for availability of color codes in stock)



Three Bore Spirals

Standard Color
Black, Clear Blue & Light Blue



Fractional Sizes	Tube OD	Part Number	Turns	Working Length	A	B & D	C	E	Weight LB	
 5/32" OD x 3/32" ID	5/32"	3MPS-532-05-__	5	1.50'	10-3/8"	4"	2-3/8"	1-1/8"	0.04	
		3MPS-532-10-__*	10	2.50'	12-3/4"	4"	4-3/4"	1-1/8"	0.06	
		3MPS-532-15-__	15	3.50'	15"	4"	7"	1-1/8"	0.08	
		3MPS-532-20-__*	20	4.40'	17-3/8"	4"	9-3/8"	1-1/8"	0.10	
		3MPS-532-30-__	30	6.40'	22-1/4"	4"	14-1/4"	1-1/8"	0.14	
		3MPS-532-40-__*	40	8.30'	27"	4"	19"	1-1/8"	0.23	
	 1/4" OD x 5/32" ID	1/4"	3MPS-14-05-__*	5	2.00'	11-3/4"	4"	3-3/4"	1-3/4"	0.13
			3MPS-14-10-__*	10	3.40'	15-1/2"	4"	7-1/2"	1-3/4"	0.22
			3MPS-14-15-__*	15	4.80'	19-1/4"	4"	11-1/4"	1-3/4"	0.30
			3MPS-14-20-__*	20	6.30'	23"	4"	15"	1-3/4"	0.40
			3MPS-14-30-__*	30	9.10'	30-1/2"	4"	22-1/2"	1-3/4"	0.58
			3MPS-14-40-__*	40	11.95'	38"	4"	30"	1-3/4"	0.76
 3/8" OD x 1/4" ID	3/8"	3MPS-38-05-__	5	2.40'	13-5/8"	4"	5-5/8"	2-1/2"	0.31	
		3MPS-38-10-__	10	4.40'	19-1/4"	4"	11-1/4"	2-1/2"	0.57	
		3MPS-38-15-__	15	6.30'	24-7/8"	4"	16-7/8"	2-1/2"	0.81	
		3MPS-38-20-__	20	8.30'	30-1/2"	4"	22-1/2"	2-1/2"	1.06	
		3MPS-38-30-__*	30	12.20'	41-3/4"	4"	33-3/4"	2-1/2"	1.56	
		3MPS-38-40-__*	40	16.00'	53"	4"	45"	2-1/2"	2.05	
 1/2" OD x 21/64" ID	1/2"	3MPS-12-05-__	5	3.20'	15-1/2"	4"	7-1/2"	3-3/8"	0.81	
		3MPS-12-10-__	10	6.00'	23"	4"	15"	3-3/8"	1.52	
		3MPS-12-15-__	15	8.70'	30-1/2"	4"	22-1/2"	3-3/8"	2.20	
		3MPS-12-20-__*	20	11.40'	38"	4"	30"	3-3/8"	2.87	
		3MPS-12-30-__*	30	16.80'	53"	4"	45"	3-3/8"	4.23	
		3MPS-12-40-__*	40	22.30'	68"	4"	60"	3-3/8"	5.62	
Metric Sizes	4mm	3MPS-04M-05-__*	5	450mm	260mm	100mm	60mm	30mm	0.04	
		3MPS-04M-10-__*	10	750mm	320mm	100mm	120mm	30mm	0.08	
		3MPS-04M-15-__	15	1050mm	380mm	100mm	180mm	30mm	0.08	
		3MPS-04M-20-__	20	1350mm	440mm	100mm	240mm	30mm	0.12	
		3MPS-04M-30-__	30	1940mm	560mm	100mm	360mm	30mm	0.15	
		3MPS-04M-40-__*	40	2540mm	680mm	100mm	480mm	30mm	0.19	
	6mm	3MPS-06M-05-__	5	580mm	290mm	100mm	90mm	44mm	0.12	
		3MPS-06M-10-__*	10	930mm	380mm	100mm	180mm	44mm	0.18	
		3MPS-06M-15-__	15	1450mm	470mm	100mm	270mm	44mm	0.30	
		3MPS-06M-20-__*	20	1900mm	560mm	100mm	360mm	44mm	0.34	
		3MPS-06M-30-__	30	2740mm	740mm	100mm	540mm	44mm	0.56	
		3MPS-06M-40-__*	40	3600mm	920mm	100mm	720mm	44mm	0.63	
	8mm	3MPS-08M-05-__*	5	600mm	320mm	100mm	120mm	48mm	0.22	
		3MPS-08M-10-__	10	1050mm	440mm	100mm	240mm	48mm	0.39	
		3MPS-08M-15-__	15	1520mm	560mm	100mm	360mm	48mm	0.50	
		3MPS-08M-20-__	20	1980mm	680mm	100mm	480mm	48mm	0.69	
		3MPS-08M-30-__	30	2880mm	920mm	100mm	720mm	48mm	0.96	
		3MPS-08M-40-__*	40	3780mm	1160mm	100mm	960mm	48mm	1.11	
	10mm	3MPS-10M-05-__*	5	750mm	350mm	100mm	150mm	63mm	0.39	
		3MPS-10M-10-__*	10	1350mm	500mm	100mm	300mm	63mm	0.67	
		3MPS-10M-15-__	15	1950mm	650mm	100mm	450mm	63mm	0.92	
		3MPS-10M-20-__*	20	2580mm	800mm	100mm	600mm	63mm	1.25	
		3MPS-10M-30-__	30	3760mm	1100mm	100mm	900mm	63mm	1.79	
		3MPS-10M-40-__*	40	4970mm	1400mm	100mm	1200mm	63mm	2.42	
12mm	3MPS-12M-05-__	5	970mm	380mm	100mm	180mm	84mm	0.56		
	3MPS-12M-10-__	10	1800mm	560mm	100mm	360mm	84mm	0.98		
	3MPS-12M-15-__	15	2650mm	740mm	100mm	540mm	84mm	1.84		
	3MPS-12M-20-__	20	3450mm	920mm	100mm	720mm	84mm	1.86		
	3MPS-12M-30-__	30	5070mm	1280mm	100mm	1080mm	84mm	3.50		
	3MPS-12M-40-__*	40	6730mm	1640mm	100mm	1440mm	84mm	4.65		

* Items in bold are generally available from stock



Four Bore Spirals

**Standard Color
 Black, Clear Blue, Light Blue, & Clear**



Fractional Sizes	Tube OD	Part Number	Turns	Working Length	A	B & D	C	E	Weight LB
 5/32" OD x 3/32" ID 1/4" OD x 5/32" ID 3/8" OD x 1/4" ID 1/2" OD x 21/64" ID	5/32"	4MPS-532-05-__	5	1.80'	9-1/2"	4"	1-1/2"	1-1/2"	0.05
		4MPS-532-10-__	10	3.00'	11-1/8"	4"	3-1/8"	1-1/2"	0.09
		4MPS-532-15-__*	15	4.00'	12-5/8"	4"	4-5/8"	1-1/2"	0.12
		4MPS-532-20-__	20	5.00'	14-1/4"	4"	6-1/4"	1-1/2"	0.15
		4MPS-532-30-__*	30	6.50'	17-1/2"	4"	9-1/2"	1-1/2"	0.19
	1/4"	4MPS-532-40-__	40	8.30'	20-5/8"	4"	12-5/8"	1-1/2"	0.25
		4MPS-14-05-__*	5	2.50'	10-1/2"	4"	2-1/2"	2-1/4"	0.21
		4MPS-14-10-__	10	3.50'	13"	4"	5"	2-1/4"	0.30
		4MPS-14-15-__	15	5.00'	15-1/2"	4"	7-1/2"	2-1/4"	0.43
		4MPS-14-20-__	20	6.50'	18"	4"	10"	2-1/4"	0.56
	3/8"	4MPS-14-30-__	30	9.10'	23"	4"	15"	2-1/4"	0.78
		4MPS-14-40-__	40	11.95'	28"	4"	20"	2-1/4"	1.02
		4MPS-38-05-__	5	2.50'	11-3/4"	4"	3-3/4"	3-1/4"	0.42
		4MPS-38-10-__	10	4.50'	15-1/2"	4"	7-1/2"	3-1/4"	0.77
		4MPS-38-15-__	15	6.50'	19-1/4"	4"	11-1/4"	3-1/4"	1.11
	1/2"	4MPS-38-20-__*	20	8.50'	23"	4"	15"	3-1/4"	1.45
		4MPS-38-30-__*	30	12.20'	30-1/2"	4"	22-1/2"	3-1/4"	2.08
		4MPS-38-40-__*	40	16.00'	38"	4"	30"	3-1/4"	2.73
		4MPS-12-05-__	5	3.40'	13"	4"	5"	4-3/8"	1.15
		4MPS-12-10-__*	10	6.20'	18"	4"	10"	4-3/8"	2.07
Metric Sizes 4mm OD x 2.5mm ID 6mm OD x 4mm ID 8mm OD x 5mm ID 10mm OD x 6.5mm ID 12mm OD x 8mm ID	4mm	4MPS-12-15-__	15	9.00'	23"	4"	15"	4-3/8"	3.03
		4MPS-12-20-__	20	11.50'	28"	4"	20"	4-3/8"	3.89
		4MPS-12-30-__	30	16.80'	38"	4"	30"	4-3/8"	5.64
		4MPS-12-40-__	40	22.30'	48"	4"	40"	4-3/8"	7.49
		4MPS-04M-05-__	5	450mm	240mm	100mm	40mm	38mm	0.07
	6mm	4MPS-04M-10-__	10	750mm	280mm	100mm	80mm	38mm	0.10
		4MPS-04M-15-__	15	1050mm	320mm	100mm	120mm	38mm	0.14
		4MPS-04M-20-__	20	1350mm	360mm	100mm	160mm	38mm	0.19
		4MPS-04M-30-__	30	1940mm	440mm	100mm	240mm	38mm	0.25
		4MPS-04M-40-__	40	2540mm	520mm	100mm	320mm	38mm	0.32
	8mm	4MPS-06M-05-__	5	580mm	260mm	100mm	60mm	56mm	0.21
		4MPS-06M-10-__	10	1030mm	320mm	100mm	120mm	56mm	0.33
		4MPS-06M-15-__*	15	1450mm	380mm	100mm	180mm	56mm	0.42
		4MPS-06M-20-__	20	1900mm	440mm	100mm	240mm	56mm	0.57
		4MPS-06M-30-__	30	2740mm	560mm	100mm	360mm	56mm	0.68
	10mm	4MPS-06M-40-__	40	3600mm	680mm	100mm	480mm	56mm	0.91
		4MPS-08M-05-__	5	600mm	280mm	100mm	80mm	64mm	0.32
		4MPS-08M-10-__	10	1050mm	360mm	100mm	160mm	64mm	0.58
		4MPS-08M-15-__	15	1520mm	440mm	100mm	240mm	64mm	0.74
		4MPS-08M-20-__	20	1980mm	520mm	100mm	320mm	64mm	1.03
12mm	4MPS-08M-30-__	30	2880mm	680mm	100mm	480mm	64mm	1.40	
	4MPS-08M-40-__	40	3780mm	840mm	100mm	640mm	64mm	1.91	
	4MPS-10M-05-__	5	750mm	300mm	100mm	100mm	83mm	0.58	
	4MPS-10M-10-__	10	1350mm	400mm	100mm	200mm	83mm	1.01	
	4MPS-10M-15-__	15	1950mm	500mm	100mm	300mm	83mm	1.51	
12mm	4MPS-10M-20-__*	20	2580mm	600mm	100mm	400mm	83mm	1.86	
	4MPS-10M-30-__	30	3760mm	800mm	100mm	600mm	83mm	3.25	
	4MPS-10M-40-__	40	4970mm	1000mm	100mm	800mm	83mm	3.38	
	4MPS-12M-05-__	5	970mm	320mm	100mm	120mm	108mm	1.10	
	4MPS-12M-10-__	10	1800mm	440mm	100mm	240mm	108mm	1.68	
12mm	4MPS-12M-15-__	15	2650mm	560mm	100mm	360mm	108mm	2.65	
	4MPS-12M-20-__	20	3450mm	680mm	100mm	480mm	108mm	3.42	
	4MPS-12M-30-__	30	5070mm	920mm	100mm	720mm	108mm	5.25	
	4MPS-12M-40-__	40	6730mm	1160mm	100mm	960mm	108mm	6.99	

* Items in bold are generally available from stock

Custom Technibond

Multi-Bore, Bonded, Polyurethane Tubing

Any combination of ATP's fractional and metric size tubing in any color combination can be bonded together. ATP does not charge set-up or tooling fees. Our minimum order quantity on Custom Straight Technibond is 25 feet. For Spiraled Technibond, there is no minimum order quantity. Pricing on both styles is quantity sensitive—the more you order, the more you save.

The maximum amount of tubes ATP can bond depends largely on the tubing OD. ATP has bonded up to 28 tubes in a spiraled, stacked configuration.

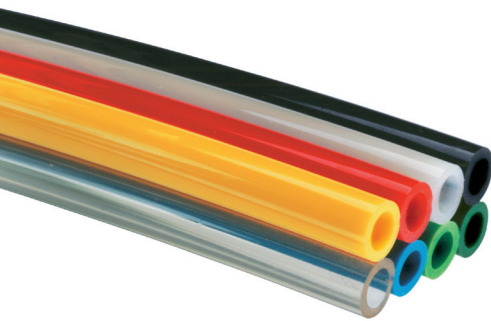
We offer as standard, a Six-conductor, 22-gauge wire. Special wiring is available. Call us to discuss your requirements.



Select your tubing using the information on Page 2.

• Straight

1. Number of Tubes
2. OD of Each Tube
3. Configuration
4. Colors



• Spiraled

1. Number of Tubes
2. OD of Each Tube
3. Configuration
4. Colors
5. Working Length (Including Tails)
6. Length of Each Tail
7. Quantity



Standard Configurations

There are three basic types of configurations which work best in the bonding process: Ribbon, Stacked & Pyramid. Straight tubing is available in Ribbon and Stacked only. Spiral tubing is available in all three. Spiral configurations work best when given a wider base on which to build.

When using tubes of many different diameters, some configurations will work better than others. Once you have chosen a basic grouping style, ATP will help you configure the tubes in the best possible manner.

If a special configuration and/or color arrangement is critical to your application, contact us first so we may discuss the many options available.



Ribbon

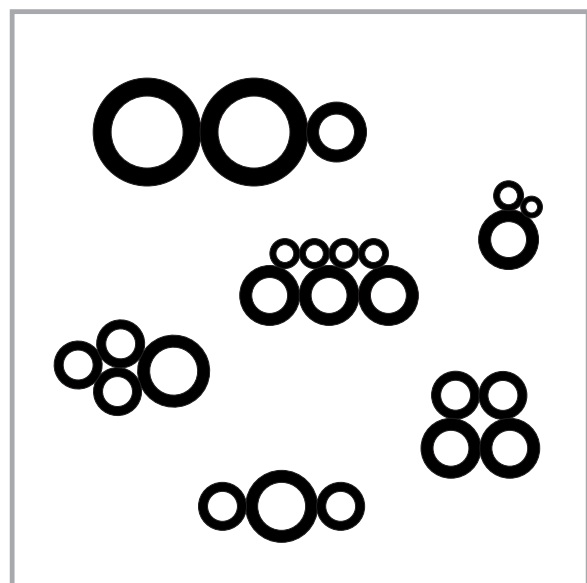


Stacked



Pyramid

Special Grouping Examples



Custom Straight or Spiral Quote Form

Single or Multi Tube Configurations

Phone: 937.349.4055 Fax: 937.349.4155

In order for us to quote you properly, simply make a copy of this form, fill in your specifications and fax it to 937-349-4155. A drawing will be issued for your approval before production begins. Due to the very special nature of this product, no cancellations can be accepted once production begins.

Straight Technibond

Tube	1	2	3	4	5	6	7	8	9	10
OD										
Color										

Configuration: Ribbon Stacked Special—Please Contact Me

Add Electric: ATP Standard Wire Special—Please Specify _____

Total Footage Required: 25' 50' 100' 250' 500' 1000' +1000'

Spiraled Technibond

Tube	1	2	3	4	5	6	7	8	9	10
OD										
Color										

Configuration: Ribbon Stacked Pyramid Special—Please Contact Me

Add Electric: ATP Standard Wire Special—Please Specify _____

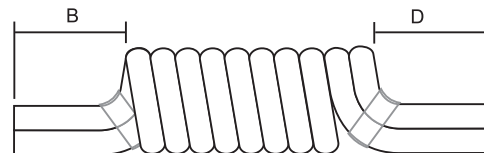
Working Length:

Tail Dimension B:

Tail Dimension D:

Fittings Required:

Quantity:



Contact Information

Contact _____ E-Mail _____

Company Name _____

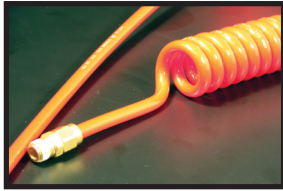
Address _____

City _____ State _____ Zip _____

Phone _____ Fax _____



ATP has developed the latest technology in tubing, hoses and pneumatic accessories. In keeping with current market demands, our products offer ergonomics and safety to help support assembly and automation applications.



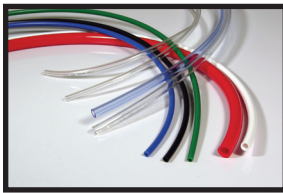
Spiral Hoses

Techniblue™, Technithane™, Armorthane™ and our industry exclusives—the “Strong™” and “Strong-Plus™.” A tighter coil ID gives our Strong hoses better memory retention. The “Plus” is a lightweight, ergonomic, hose whip providing surface protection and operator comfort. Custom models are our specialty.



Technifit™ Push-To-Connect Fitting

All are made to extremely tight tolerances and work with ATP tubing to eliminate leaks. Our variety of fittings represents a large selection of the most common models, sizes and materials. Additional models and sizes - including stainless materials and Viton® seals are available as special order.



Tubing - Polyurethane, Polyethylene, Nylon, PTFE, PVC

Only the highest-quality materials go into manufacturing our tubing. Over 50 stock sizes and 12 stock colors in both fractional and metric dimensions. Different Compounds and hardness are available upon request.



Armor-Air™ Contractors Air Hose

Lightweight, flexible and much more abrasion-resistant than traditional rubber air hoses. A must-have for contractors, and anyone who owns an air compressor. Available with varying hardness and many colors. Reinforced with nylon for greater working pressures. Standard & custom assemblies and spirals.



Free Angle® Swivel Fitting

The rubber boot has been replaced by an exclusive steel cover giving it a much longer service life. Our two rotation points make this superior to the imitators. The ergonomic, patented 360° circular rotation and 45° angled rotation makes this fitting indispensable for air tool and assembly applications.



Hose & Cable Balancers

Durable cases and high-quality internal components make up our balancers. Ideal for workstation ergonomics.



Oetiker® Clamps

The Oetiker® Clamp creates a spring effect when the hose material expands or contracts in response to thermal or mechanical influences such as temperature, vibration, etc. Single ear, double ear and stepless in both carbon steel and stainless steel.



Brass Fittings

Compression style Hose Fittings and Mufflers in fractional and metric sizes. NPT and BSPT.



Quick Disconnect Couplings

Available in low pressure, non-marring plastic, steel, brass and stainless for pneumatic applications. Several models of safety couplings are also available from stock.



Blow Gun

ATP's line of blow guns offers ergonomics and economy selections with many models available.

Viton® is a registered trademark of the E.L. DuPont Co.

**PO Box 335 12740 State Route 4
Milford Center, Ohio 43045-0335 USA**

**Phone: 937.349.4055
Fax: 937.349.4155**

**E-mail: info@atp4pneumatics.com
www.atp4pneumatics.com**

TO PLACE AN ORDER BY EMAIL: ORDERS@ATP4PNEUMATICS.COM

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