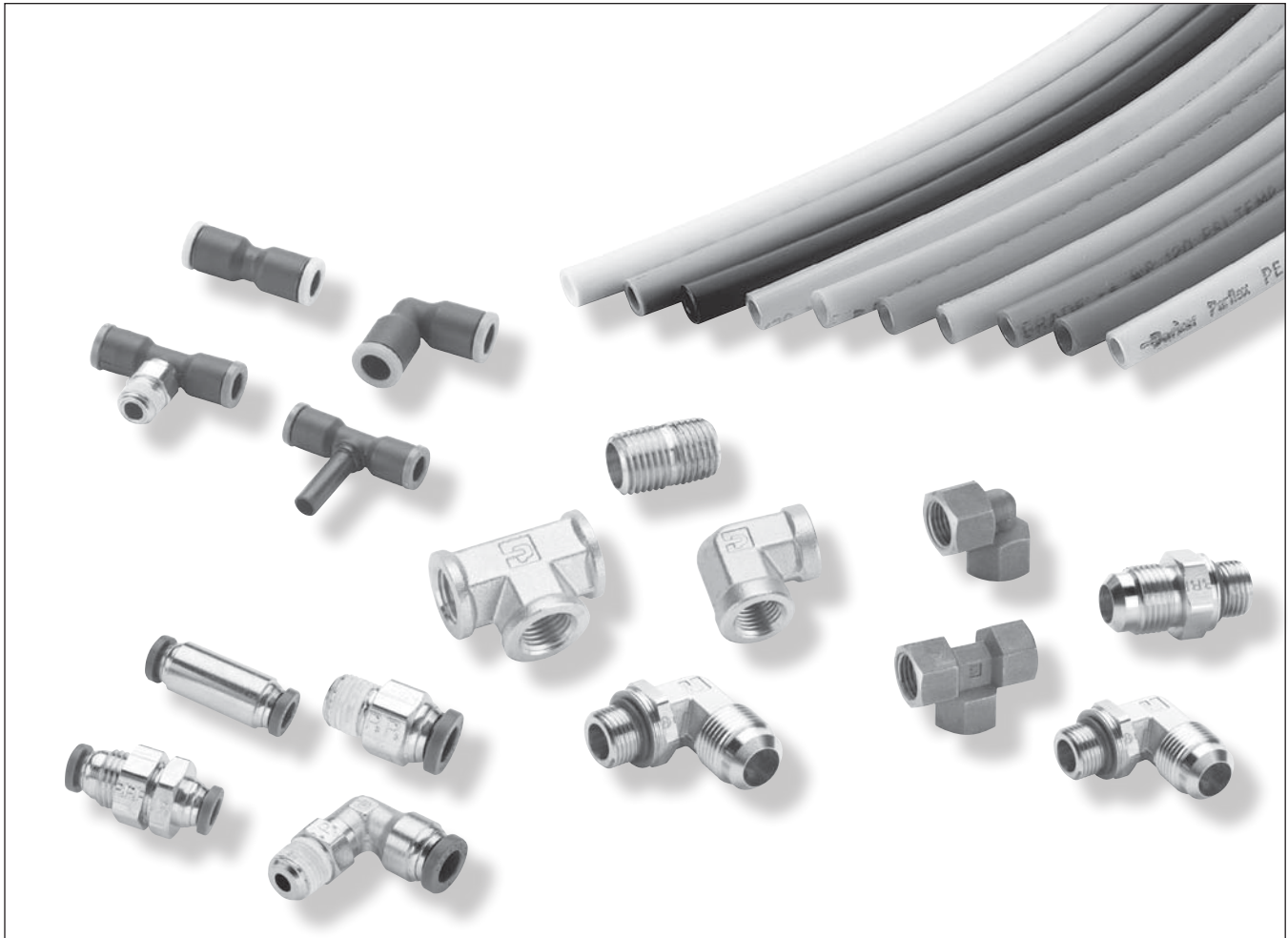


# Tubing & Fittings

## Section H



|   |         |
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| Polyethylene Tubing.....                              | H2-H3   |
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H

Tubing

Prestolok  
Composite

Prestolok  
Metal

Pipe Fittings  
& Adapters

## Advantages

Chemical resistant, flexible, low cost, eight colors, five tube sizes and choice of reel lengths.

## Construction

Flexible polyethylene thermoplastic tubing is extruded from high molecular weight resin for increased dimensional stability, uniformity and long-term strength. Its resistance to environmental stress cracking greatly exceeds that of ordinary polyethylene tubing as measured by ASTM D-1693, (10% IGEPAL).

## Applications & Approvals

Polyethylene tubing is available in black as well as seven coding colors as recommended by the Instrument Society of America. Black (EB) tubing contains an ultra-violet inhibitor which is recommended for use in sunlit areas. Ingredients of natural and color tubing (except black) listed below meet FDA requirements for food contact applications. All tubing conforms to ASTM D-1248, Type I, Class A, Category 4, Grade E5.

## Temperature Range

Suggested operating temperature range is -80°F to 150°F (-62°C to 66°C).

## Fitting Recommendation

- Brass fittings

## Nomenclature

Part numbers are constructed from symbols that identify the style and size of the fitting. Letters identify style and material. Numbers identify size in 1/16's of an inch.

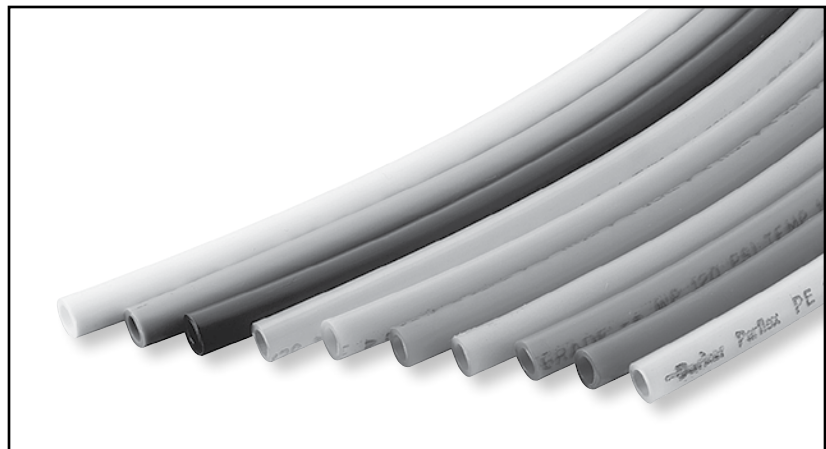
### Example:

E - 6 4 - Y - 0500

Polyethylene ———┐  
 3/8" (6/16) Tube O.D. ┘  
 1/4" (4/16) Tube I.D. —┐  
 Color, Yellow ———┘  
 Reel Footage —————

## E Instrument Grade Tubing

| Part Number | Color   | O.D. | I.D. | Wall | Reel Length Feet | Working Pressure psi at 73°F | Min. Burst psi at 73°F | Min. Bend Radius Inches | Weight Per 100 Feet |
|-------------|---------|------|------|------|------------------|------------------------------|------------------------|-------------------------|---------------------|
| E-43-0100   | Natural | 1/4  | .170 | .040 | 100              | 120                          | 625                    | 1                       | 1.1                 |
| E-43-0500   | Natural | 1/4  | .170 | .040 | 500              | 120                          | 625                    | 1                       | 1.1                 |
| E-43-1000   | Natural | 1/4  | .170 | .040 | 1000             | 120                          | 625                    | 1                       | 1.1                 |
| EB-43-0100  | Black   | 1/4  | .170 | .040 | 100              | 120                          | 625                    | 1                       | 1.1                 |
| EB-43-0500  | Black   | 1/4  | .170 | .040 | 500              | 120                          | 625                    | 1                       | 1.1                 |
| EB-43-1000  | Black   | 1/4  | .170 | .040 | 1000             | 120                          | 625                    | 1                       | 1.1                 |
| E-43-R-0100 | Red     | 1/4  | .170 | .040 | 100              | 120                          | 625                    | 1                       | 1.1                 |
| E-43-R-0500 | Red     | 1/4  | .170 | .040 | 500              | 120                          | 625                    | 1                       | 1.1                 |
| E-43-B-0100 | Blue    | 1/4  | .170 | .040 | 100              | 120                          | 625                    | 1                       | 1.1                 |
| E-43-B-0500 | Blue    | 1/4  | .170 | .040 | 500              | 120                          | 625                    | 1                       | 1.1                 |
| E-43-O-0500 | Orange  | 1/4  | .170 | .040 | 500              | 120                          | 625                    | 1                       | 1.1                 |
| E-43-Y-0500 | Yellow  | 1/4  | .170 | .040 | 500              | 120                          | 625                    | 1                       | 1.1                 |
| E-43-P-0500 | Purple  | 1/4  | .170 | .040 | 500              | 120                          | 625                    | 1                       | 1.1                 |
| E-43-G-0500 | Green   | 1/4  | .170 | .040 | 500              | 120                          | 625                    | 1                       | 1.1                 |
| E-53-0500   | Natural | 5/16 | .187 | .062 | 500              | 145                          | 800                    | 1-1/8                   | 2.1                 |
| EB-53-0500  | Black   | 5/16 | .187 | .062 | 500              | 145                          | 800                    | 1-1/8                   | 2.1                 |
| E-64-0100   | Natural | 3/8  | .250 | .062 | 100              | 125                          | 675                    | 1-1/4                   | 2.5                 |
| E-64-0500   | Natural | 3/8  | .250 | .062 | 500              | 125                          | 675                    | 1-1/4                   | 2.5                 |
| EB-64-0100  | Black   | 3/8  | .250 | .062 | 100              | 125                          | 675                    | 1-1/4                   | 2.5                 |
| EB-64-0500  | Black   | 3/8  | .250 | .062 | 500              | 125                          | 675                    | 1-1/4                   | 2.5                 |
| E-64-R-0500 | Red     | 3/8  | .250 | .062 | 500              | 125                          | 675                    | 1-1/4                   | 2.5                 |
| E-64-B-0500 | Blue    | 3/8  | .250 | .062 | 500              | 125                          | 675                    | 1-1/4                   | 2.5                 |
| E-64-O-0500 | Orange  | 3/8  | .250 | .062 | 500              | 125                          | 675                    | 1-1/4                   | 2.5                 |
| E-64-Y-0500 | Yellow  | 3/8  | .250 | .062 | 500              | 125                          | 675                    | 1-1/4                   | 2.5                 |
| E-64-P-0500 | Purple  | 3/8  | .250 | .062 | 500              | 125                          | 675                    | 1-1/4                   | 2.5                 |
| E-64-G-0500 | Green   | 3/8  | .250 | .062 | 500              | 125                          | 675                    | 1-1/4                   | 2.5                 |
| E-86-0100   | Natural | 1/2  | .375 | .062 | 100              | 90                           | 425                    | 2-1/2                   | 3.6                 |
| EB-86-0100  | Black   | 1/2  | .375 | .062 | 100              | 90                           | 425                    | 2-1/2                   | 3.6                 |
| E-108-0100  | Natural | 5/8  | .500 | .062 | 100              | 70                           | 325                    | 4                       | 4.6                 |
| EB-108-0100 | Black   | 5/8  | .500 | .062 | Coil             | 70                           | 325                    | 4                       | 4.6                 |



**H**

Tubing

Prestolok Composite

Prestolok Metal

Pipe Fittings & Adapters



### PEFR Flame Resistant Tubing

| Part Number   | Color | O.D. | I.D. | Wall | Reel Length Feet | Working Pressure psi at 73°F | Min. Burst psi at 73°F | Min. Bend Radius Inches | Weight Per 100 Feet |
|---------------|-------|------|------|------|------------------|------------------------------|------------------------|-------------------------|---------------------|
| PEFR-2.5-0500 | Black | 5/32 | .096 | .030 | 500              | 225                          | 900                    | 1/2                     | .56                 |
| PEFR-4-0500   | Black | 1/4  | .170 | .040 | 500              | 160                          | 650                    | 3/4                     | 1.24                |
| PEFR-4-1000   | Black | 1/4  | .170 | .040 | 1000             | 160                          | 650                    | 3/4                     | 1.24                |
| PEFR-6-0500   | Black | 3/8  | .250 | .062 | 500              | 195                          | 780                    | 1-1/2                   | 2.90                |
| PEFR-8-0250   | Black | 1/2  | .375 | .062 | 250              | 135                          | 540                    | 1-3/4                   | 4.05                |

### Construction & Approvals

Flame resistant polyethylene is manufactured from a distinctively formulated compound which meets the UL94 V-2 flame classification. It also meets the flame spread, fuel contribution and smoke density requirements of the ASTM E84-81a tunnel test.

### Applications

Parker series PEFR tubing is the preferred product for pneumatic control applications in the heating - ventilating - air conditioning - energy conservation industry. It is also suitable for use in petrochemical plants, petroleum refineries, pulp and paper mills, mines, steel mills and other industries where protection against intermittent flame and hot sparks is necessary.

### Temperature Range

Suggested operating temperature range is -85°F to 150°F (-65°C to +66°C).

### Nomenclature

Order by tubing part number and name.

**Example:**

PE FR 4 - 0500

Polyethylene \_\_\_\_\_

Flame Resistant \_\_\_\_\_

1/4" (4/16) Tube O. D. \_\_\_\_\_

Reel Footage \_\_\_\_\_

H

Tubing

Presolok Composite

Prestolok Metal

Pipe Fittings & Adapters



## N Flexible Tubing

| Nylon Part No. | Color   | Nom. Tube O.D. | Nom. Tube I.D. | Average Wall Thick. | *Min. Burst Pressure at 73°F psi | Min. Bend Radius Inches | Std. Reel Length Feet |
|----------------|---------|----------------|----------------|---------------------|----------------------------------|-------------------------|-----------------------|
| NN-2-016       | Natural | 1/8            | .093           | .016                | 1000                             | 1/4                     | 250                   |
| NB-2-016       | Black   | 1/8            | .093           | .016                | 1000                             | 1/4                     | 250                   |
| NN-2-031       | Natural | 1/8            | .064           | .031                | 2000                             | 1/4                     | 250                   |
| NB-2-031       | Black   | 1/8            | .064           | .031                | 2000                             | 1/4                     | 250                   |
| NN-2.5-025     | Natural | 5/32           | .106           | .025                | 1200                             | 1/2                     | 250                   |
| NB-2.5-025     | Black   | 5/32           | .106           | .025                | 1200                             | 1/2                     | 250                   |
| NN-3-025       | Natural | 3/16           | .138           | .025                | 1000                             | 5/8                     | 250                   |
| NB-3-025       | Black   | 3/16           | .138           | .025                | 1000                             | 5/8                     | 250                   |
| NN-3-046       | Natural | 3/16           | .096           | .046                | 2000                             | 7/16                    | 250                   |
| NB-3-046       | Black   | 3/16           | .096           | .046                | 2000                             | 7/16                    | 250                   |
| NN-4-035       | Natural | 1/4            | .180           | .035                | 1000                             | 7/8                     | 250                   |
| NB-4-035       | Black   | 1/4            | .180           | .035                | 1000                             | 7/8                     | 250                   |
| NN-4-040       | Natural | 1/4            | .170           | .040                | 1250                             | 7/8                     | 250                   |
| NB-4-040       | Black   | 1/4            | .170           | .040                | 1250                             | 7/8                     | 250                   |
| NN-4-062       | Natural | 1/4            | .127           | .062                | 2000                             | 1/2                     | 250                   |
| NB-4-062       | Black   | 1/4            | .127           | .062                | 2000                             | 1/2                     | 250                   |
| NN-5-040       | Natural | 5/16           | .233           | .040                | 1250                             | 1-1/8                   | 250                   |
| NB-5-040       | Black   | 5/16           | .233           | .049                | 1250                             | 1-1/8                   | 250                   |
| NN-6-050       | Natural | 3/8            | .275           | .050                | 1250                             | 1-1/8                   | 250                   |
| NB-6-050       | Black   | 3/8            | .275           | .050                | 1250                             | 1-1/8                   | 250                   |
| NN-6-093       | Natural | 3/8            | .190           | .093                | 2000                             | 3/4                     | 250                   |
| NB-6-093       | Black   | 3/8            | .190           | .093                | 2000                             | 3/4                     | 250                   |
| NN-8-062       | Natural | 1/2            | .375           | .062                | 1000                             | 1-1/4                   | 250                   |
| NB-8-062       | Black   | 1/2            | .375           | .062                | 1000                             | 1-1/4                   | 250                   |
| NN-8-124       | Natural | 1/2            | .253           | .124                | 2000                             | 1                       | 250                   |
| NB-8-124       | Black   | 1/2            | .253           | .124                | 2000                             | 1                       | 250                   |

\*Suggested working pressure is 1/4 of burst pressure.

### Advantages

Flexible nylon tubing is carefully made from high-grade, abrasion-resistant, heat- and light-stabilized nylon. Resistance to stress-cracking greatly exceeds that of ordinary nylon tubing. Extremely low level water absorption.

Chemical-resistant nylon tubing has the additional benefits of better flexibility, lighter weight and resistance to flexural fatigue.

### Colors

Available in natural (NN) and black (NB). Black tubing is recommended for use outdoors and in sunlit areas.

### Temperature Range

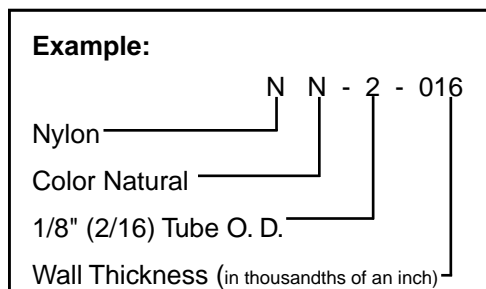
Operating temperatures, depending upon conditions, are -65°F to 200°F (-54°C to 93°C) continuous.

### Fitting Recommendations

- Brass fittings

### Nomenclature

Order by tubing part number and name.



**H**

Tubing

Prestolok Composite

Prestolok Metal

Pipe Fittings & Adapters



## NR Semi-rigid High Strength Tubing

| Nylon Part No. | Color   | Nom. Tube O.D. | Nom. Tube I.D. | Average Wall Thick. | *Min. Burst Pressure at 73°F psi | Min. Bend Radius Inches | Std. Reel Length Feet |
|----------------|---------|----------------|----------------|---------------------|----------------------------------|-------------------------|-----------------------|
| NNR-2-017      | Natural | 1/8            | .091           | .017                | 1700                             | 1/2                     | 500                   |
| NBR-2-017      | Black   | 1/8            | .091           | .017                | 1700                             | 1/2                     | 500                   |
| NNR-2-026      | Natural | 1/8            | .073           | .026                | 2500                             | 3/8                     | 500                   |
| NBR-2-026      | Black   | 1/8            | .073           | .026                | 2500                             | 3/8                     | 500                   |
| NNR-3-024      | Natural | 3/16           | .140           | .024                | 1700                             | 3/4                     | 500                   |
| NBR-3-024      | Black   | 3/16           | .140           | .024                | 1700                             | 3/4                     | 500                   |
| NNR-3-039      | Natural | 3/16           | .110           | .039                | 2500                             | 5/8                     | 500                   |
| NBR-3-039      | Black   | 3/16           | .110           | .039                | 2500                             | 5/8                     | 500                   |
| NNR-4-035      | Natural | 1/4            | .180           | .035                | 1700                             | 1                       | 250                   |
| NBR-4-035      | Black   | 1/4            | .180           | .035                | 1700                             | 1                       | 250                   |
| NNR-4-050      | Natural | 1/4            | .150           | .050                | 2500                             | 7/8                     | 250                   |
| NBR-4-050      | Black   | 1/4            | .150           | .050                | 2500                             | 7/8                     | 250                   |
| NNR-5-040      | Natural | 5/16           | .233           | .040                | 1700                             | 1-1/2                   | 250                   |
| NBR-5-040      | Black   | 5/16           | .233           | .040                | 1700                             | 1-1/2                   | 250                   |
| NNR-6-048      | Natural | 3/8            | .279           | .048                | 1700                             | 1-3/4                   | 250                   |
| NBR-6-048      | Black   | 3/8            | .279           | .048                | 1700                             | 1-3/4                   | 250                   |
| NNR-6-075      | Natural | 3/8            | .225           | .075                | 2500                             | 1-1/2                   | 250                   |
| NBR-6-075      | Black   | 3/8            | .225           | .075                | 2500                             | 1-1/2                   | 250                   |
| NNR-8-062      | Natural | 1/2            | .376           | .062                | 1500                             | 2-3/8                   | 250                   |
| NBR-8-062      | Black   | 1/2            | .376           | .062                | 1500                             | 2-3/8                   | 250                   |
| NNR-8-075      | Natural | 1/2            | .350           | .075                | 2200                             | 2-1/2                   | 250                   |
| NBR-8-075      | Black   | 1/2            | .350           | .075                | 2200                             | 2-1/2                   | 250                   |

\*Suggested working pressure is 1/4 of burst pressure.

### Advantages

Series NR semi-rigid nylon tubing offers better chemical resistance than series N, good resistance to high ambient temperature and low moisture absorption. NR has a high tensile strength which will give excellent coupling retention in high pressure, temperature and vibration environments.

### Construction

Parker series NR tubing is manufactured from a semi-rigid nylon II material. The tubing does not contain plasticizers.

### Applications & Approvals

NR tubing is specified for machine tool lubricating systems, marine control systems, process lines for chemicals and oils and other applications requiring a high quality nylon tube.

### Temperature Range

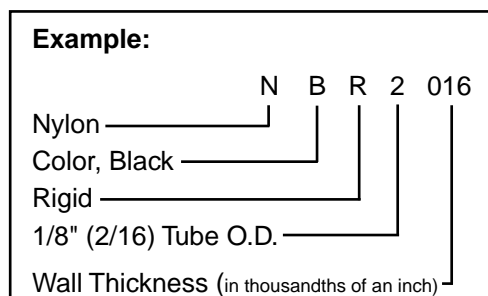
The recommended operating temperature range for service at rated pressures with compatible fluids is -60°F to 200°F (-51°C to 93°C).

### Fitting Recommendations

- Brass fittings

### Nomenclature

Order by tubing part number and name.



## PTC Plastic Tube Cutter

### Part No. PTC-001

An easy to handle razor/edged tube cutter, closes automatically, assuring clean and square cuts.

May be used with polyethylene, polypropylene, nylon and other plastic tubing.

#### How To Use

Insert plastic tube to desired length, allow tube cutter to close, then apply pressure until tube snaps off.

