# OMEGAFLEX®
# UNREINFORCED POLYURETHANE TUBING

## TYUTH Series

Omega's Polyurethane tubing is available in two different formulations: TYUS polyester and TYUTH polyether. TYUS polyester tubing is extremely durable, resisting both abrasion and flex fatigue. It remains flexible and transparent even at low temperatures. TYUS polyester tubing is highly resistant to aliphatic hydrocarbons and petroleum products; however, it is NOT recommended for use with water-based solutions.

TYUTH polyether tubing is more flexible than TYUS polyester tubing and is the formulation utilized in select peristaltic pump applications. Like TYUS polyester tubing, TYUTH polyether tubing also has excellent abrasion resistance and remains flexible at low temperatures.

***Note:*** *All are transparent, except ester in 5/16 x 3/16, 3/8 x 1/4, and 1/2 x 3/8 sizes, which are translucent white. Consult sales for color availability.*

| Typical Specifications* | Ester (TYUS) @ 23°C (73°F) | Ether (TYUTH) @ 23°C (73°F) |
|---|---|---|
| **Hardness, Shore A±5** | 85 | 85 |
| **Specific Gravity** | 1.20 | 1.12 |
| **Tensile Strength, PSI** | 6000 | 4500 |
| **Ultimate Elongation %** | 550% | 500% |
| **Operating Temperature Range** | -57 to 84°C (-70 to 185°F) | -57 to 79°C (-70 to 175°F) |

**Specifications listed are meant only as a guide. Each user must test the tubing under their operating conditions to determine the tubing's suitability for the particular application.*

*† Visit* ***omega.com/rohs*** *to determine specific RoHS compliance.*

**Polyurethane Ether Tubing**

**To Order**

| Model No. | OD (inch) | ID (inch) | Standard Length (ft) | Wall (inch) | Working psi@ 70°F | Weight (lbs) |
|---|---|---|---|---|---|---|
| **TYUTH-18116-100** | 1/8 | 1/16 | 100 | 1/32 | 134 | 1/2 |
| **TYUTH-31618-100** | 3/16 | 1/8 | 100 | 1/32 | 72 | 7/8 |
| **TYUTH-1418-100** | 1/4 | 1/8 | 100 | 1/16 | 133 | 2 |
| **TYUTH-14316-100** | 1/4 | 3/16 | 500 | 0.045 | 27 | 1 5/8 |
| **TYUTH-516316-100** | 5/16 | 3/16 | 100 | 1/16 | 74 | 2 3/4 |
| **TYUTH-51614-100** | 5/16 | 1/4 | 100 | 1/32 | 33 | 1 3/4 |
| **TYUTH-3814-100** | 3/8 | 1/4 | 100 | 1/16 | 67 | 3 1/2 |
| **TYUTH-1214-100** | 1/2 | 1/4 | 100 | 1/8 | 131 | 8 |
| **TYUTH-716516-100** | 7/16 | 5/16 | 100 | 1/16 | 65 | 4 |
| **TYUTH-916516-100** | 9/16 | 5/16 | 100 | 1/8 | 118 | 9 1/4 |
| **TYUTH-1238-100** | 1/2 | 3/8 | 100 | 1/16 | 59 | 5 |
| **TYUTH-91638-100** | 9/16 | 3/8 | 100 | 3/32 | 84 | 7 3/4 |
| **TYUTH-5838-100** | 5/8 | 3/8 | 100 | 1/8 | 100 | 11 |
| **TYUTH-5812-100** | 5/8 | 1/2 | 100 | 1/16 | 36 | 6 |
| **TYUTH-3412-100** | 3/4 | 1/2 | 100 | 1/8 | 60 | 13 1/2 |
| **TYUTH-131658-100** | 13/16 | 5/8 | 100 | 3/32 | 54 | 11 1/2 |
| **TYUTH-7858-100** | 7/8 | 5/8 | 100 | 1/8 | 60 | 16 |
| **TYUTH-134-100** | 1 | 3/4 | 100 | 1/8 | 51 | 18 1/2 |
| **TYUTH-11878-100** | 1 1/8 | 7/8 | 100 | 1/8 | 33 | 21 |
| **TYUTH-1141-100** | 1 1/4 | 1 | 100 | 1/8 | 40 | 23 1/2 |

***Ordering Example: TYUTH-1238-100,*** *100', 1/2" OD, 3/8" ID, 1/16" wall, unreinforced Polyurethane tubing.*

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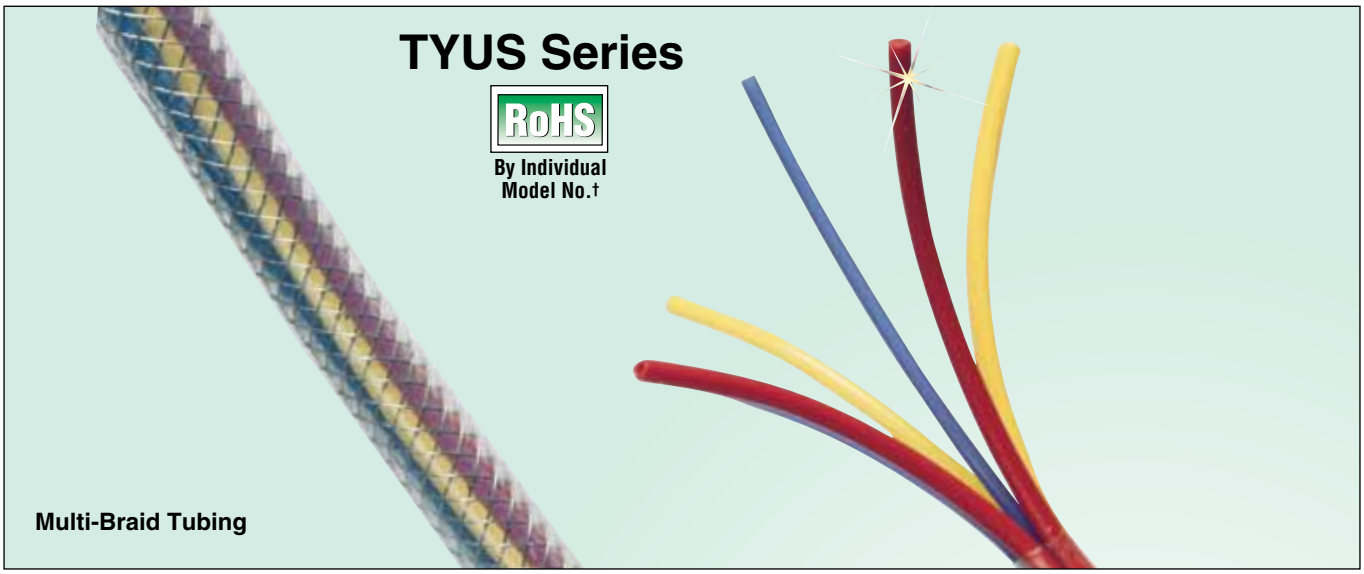


**Polyurethane Ester Tubing**

## To Order

**1/16 to 1/4" ID TUBING**

| Model No. | OD (inch) | ID (inch) | Standard Length (ft) | Wall (inch) | Working psi @ 70°F | lbs/cft |
|---|---|---|---|---|---|---|
| TYUS-18116-100 | 1/8 | 1/16 | 100 | 1/32 | 134 | 1/2 |
| TYUS-31618-100 | 3/16 | 1/8 | 100 | 1/32 | 72 | 7/8 |
| TYUS-1418-100 | 1/4 | 1/8 | 100 | 1/16 | 133 | 2 |
| TYUS-14316-100 | 1/4 | 3/16 | 100 | 1/32 | 27 | 2 3/4 |
| TYUS-516316-100 | 5/16 | 3/16 | 100 | 1/16 | 74 | 2 3/4 |
| TYUS-51614-100 | 5/16 | 1/4 | 100 | 1/32 | 33 | 1 3/4 |
| TYUS-3814-100 | 3/8 | 1/4 | 100 | 1/16 | 67 | 3 1/2 |
| TYUS-1214-100 | 1/2 | 1/4 | 100 | 1/8 | 131 | 8 |
| TYUS-1214-500 | 1/2 | 1/4 | 500 | 1/8 | 131 | 8 |
| TYUS-716516-100 | 7/16 | 5/16 | 100 | 1/16 | 65 | 4 |
| TYUS-916516-100 | 9/16 | 5/16 | 100 | 1/8 | 118 | 9 1/4 |
| TYUS-1238-100 | 1/2 | 3/8 | 100 | 1/16 | 59 | 5 |
| TYUS-91638-100 | 9/16 | 3/8 | 100 | 3/32 | 84 | 7 3/4 |
| TYUS-5838-100 | 5/8 | 3/8 | 100 | 1/8 | 100 | 7 3/4 |
| TYUS-5812-100 | 5/8 | 1/2 | 100 | 1/16 | 36 | 6 |
| TYUS-3412-100 | 3/4 | 1/2 | 100 | 1/8 | 60 | 6 |
| TYUS-131658-100 | 13/16 | 5/8 | 100 | 3/32 | 54 | 11 1/2 |
| TYUS-7858-100 | 7/8 | 5/8 | 100 | 1/8 | 60 | 11 1/2 |
| TYUS-134-50 | 1 | 3/4 | 50 | 1/8 | 51 | 16 |
| TYUS-134-100 | 1 | 3/4 | 100 | 1/8 | 51 | 18 1/2 |
| TYUS-11878-100 | 1 1/8 | 7/8 | 100 | 1/8 | 33 | 18 1/2 |
| TYUS-1141-50 | 1 1/4 | 1 | 50 | 1/8 | 40 | 20 7/8 |
| TYUS-1141-100 | 1 1/4 | 1 | 100 | 1/8 | 40 | 23 1/2 |

***Ordering Example: TYUS-1214-100**, 100' of tubing, 1/2" OD, 1/4" ID, 1/8" wall.*