

## *Proof Positive of Panduit Quality*

With all the talk about high quality, it's nice to hear a completely objective voice now and then. ISO 9001 certification is proof positive that Panduit's focus on quality is from top to bottom and everywhere in between.

The ISO 9001 recognition indicates that we meet the most comprehensive international standards in design, purchasing, manufacturing, testing, documentation, shipping and service. And this means Panduit's high-quality products and services help you meet your ISO 9000 requirements while also reducing your quality and inspection costs.

**The following Panduit products are manufactured at ISO 9001 registered Panduit facilities:**

- ! Cable Ties
- ! Heat Shrink/Wire Abrasion Products
- ! Identification/Safety Products
- ! Network Cabling Products
- ! Power Connectors
- ! Stainless Steel Ties & Accessories
- ! Surface Raceway
- ! Terminals
- ! Wiring Accessories
- ! Wiring Duct



Focused on the Future



Tinley Park, IL 60477-3091 Fax 708-532-1811  
Internet Email: [info@panduit.com](mailto:info@panduit.com)  
Website: [www.panduit.com](http://www.panduit.com)

## PVC Tubing

- Provides insulation and protection for lead wires, wire harness assemblies, soldered joints and components in electrical and electronic equipment
- Material: Polyvinyl chloride (PVC)
- Voltage Rating: 300V and 600V
- All purpose, flexible, non-shrinkable
- Resistant to heat and moisture
- Applicable Specifications:  
UL224 VW-1  
CSA C22.2 No. 198.1 (OFT)  
ASTM D-922, Grade CFR  
MIL-I-631, Type F, Form U, Grade C-  
Class 1, Category 1



## The Functional Part Number System Makes Ordering Easy

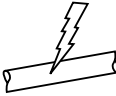
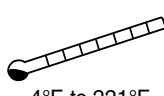
### Non-Shrink PVC Tubing Part Number System

#### TV105 19 M

| Type  | Nominal Size |               | Package Quantity    |
|-------|--------------|---------------|---------------------|
| TV105 | 24 - 24 AWG  | 4 - 4 AWG     | L - 50' (15.2M)     |
|       | 22 - 22 AWG  | 3 - 3 AWG     | C - 100' (30.5M)    |
|       | 20 - 20 AWG  | 2 - 2 AWG     | TL - 250' (76.2M)   |
|       | 19 - 19 AWG  | 1 - 1 AWG     | D - 500' (152.4M)   |
|       | 18 - 18 AWG  | 0 - 0 AWG     | M - 1000' (304.8M)  |
|       | 17 - 17 AWG  | .25 - 1/4"    | 2.5M - 2500' (762M) |
|       | 16 - 16 AWG  | .31 - 5/16"   |                     |
|       | 15 - 15 AWG  | .38 - 3/8"    |                     |
|       | 14 - 14 AWG  | .44 - 6/16"   |                     |
|       | 13 - 13 AWG  | .50 - 1/2"    |                     |
|       | 12 - 12 AWG  | .56 - 9/16"   |                     |
|       | 11 - 11 AWG  | .63 - 5/8"    |                     |
|       | 10 - 10 AWG  | .75 - 3/4"    |                     |
|       | 9 - 9 AWG    | .88 - 7/8"    |                     |
|       | 8 - 8 AWG    | 1.0 - 1"      |                     |
|       | 7 - 7 AWG    | 1.25 - 1 1/4" |                     |
|       | 6 - 6 AWG    | 1.50 - 1 1/2" |                     |
|       | 5 - 5 AWG    |               |                     |

# Non-Shrink PVC Tubing



| Type                                                                                                  | Materials                                                                                                                |                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TV105</b>                                                                                          |  <b>Polyvinyl Chloride</b>            |                                                                                                                                               |
| <br>300V/600V**     | <br>-4°F to 221°F<br>(-20°C to 105°C) | <br>MIL-I-631, Type F,<br>Form U Grade C<br>Class 1, Cat 1 |
| <br>Highly Flexible | <br>Oil Resistant                     | <br>Highly Flame<br>Retardant VW-1                         |

## PVC Tubing Ordering Information

| Part Number<br>Clear | Part Number<br>Black | Nominal<br>Size/<br>Trade<br>Name | Inside Diameter- In. (mm) |                | Wall<br>Thickness<br>In. (mm) | Max.<br>Volt<br>Rating** | Std.<br>Pkg.<br>Qty.*  | Std.<br>Ctn.<br>Qty. |
|----------------------|----------------------|-----------------------------------|---------------------------|----------------|-------------------------------|--------------------------|------------------------|----------------------|
|                      |                      |                                   | Maximum                   | Minimum        |                               |                          |                        |                      |
| TV105-242.5M         | TV105-242.5M20       | 24 AWG                            | .027" (0.68)              | .020" (0.51)   | .012" (.30)                   | 300V                     | 1 Reel, 2500' (762M)   | 2 Reels              |
| TV105-222.5M         | TV105-222.5M20       | 22 AWG                            | .032" (0.81)              | .025" (0.69)   | .012" (.30)                   | 300V                     | 1 Reel, 2500' (762M)   | 2 Reels              |
| TV105-20M            | TV105-20M20          | 20 AWG                            | .039" (0.99)              | .032" (0.81)   | .016" (.41)                   | 300V                     | 1 Reel, 1000' (304.8M) | 2 Reels              |
| TV105-19M            | TV105-19M20          | 19 AWG                            | .042" (1.06)              | .036" (0.91)   | .016" (.41)                   | 300V                     | 1 Reel, 1000' (304.8M) | 2 Reels              |
| TV105-18M            | TV105-18M20          | 18 AWG                            | .049" (1.24)              | .040" (1.02)   | .016" (.41)                   | 300V                     | 1 Reel, 1000' (304.8M) | 2 Reels              |
| TV105-17M            | TV105-17M20          | 17 AWG                            | .053" (1.34)              | .045" (1.14)   | .016" (.41)                   | 300V                     | 1 Reel, 1000' (304.8M) | 2 Reels              |
| TV105-16M            | TV105-16M20          | 16 AWG                            | .061" (1.54)              | .051" (1.30)   | .016" (.41)                   | 300V                     | 1 Reel, 1000' (304.8M) | 2 Reels              |
| TV105-15M            | TV105-15M20          | 15 AWG                            | .066" (1.67)              | .057" (1.45)   | .016" (.41)                   | 300V                     | 1 Reel, 1000' (304.8M) | 2 Reels              |
| TV105-14M            | TV105-14M20          | 14 AWG                            | .072" (1.82)              | .064" (1.63)   | .016" (.41)                   | 300V                     | 1 Reel, 1000' (304.8M) | 2 Reels              |
| TV105-13M            | TV105-13M20          | 13 AWG                            | .080" (2.03)              | .072" (1.83)   | .016" (.41)                   | 300V                     | 1 Reel, 1000' (304.8M) | 2 Reels              |
| TV105-12D            | TV105-12D20          | 12 AWG                            | .089" (2.26)              | .081" (2.06)   | .016" (.41)                   | 300V                     | 1 Reel, 500' (152.4M)  | 2 Reels              |
| TV105-11D            | TV105-11D20          | 11 AWG                            | .101" (2.56)              | .091" (2.31)   | .016" (.41)                   | 300V                     | 1 Reel, 500' (152.4M)  | 2 Reels              |
| TV105-10D            | TV105-10D20          | 10 AWG                            | .112" (2.84)              | .102" (2.59)   | .016" (.41)                   | 300V                     | 1 Reel, 500' (152.4M)  | 2 Reels              |
| TV105-9D             | TV105-9D20           | 9 AWG                             | .124" (3.14)              | .114" (2.90)   | .020" (.51)                   | 300V                     | 1 Reel, 500' (152.4M)  | 2 Reels              |
| TV105-8D             | TV105-8D20           | 8 AWG                             | .141" (3.58)              | .129" (3.28)   | .020" (.51)                   | 300V                     | 1 Reel, 500' (152.4M)  | 2 Reels              |
| TV105-7D             | TV105-7D20           | 7 AWG                             | .158" (4.01)              | .144" (3.66)   | .020" (.51)                   | 300V                     | 1 Reel, 500' (152.4M)  | 2 Reels              |
| TV105-6TL            | TV105-6TL20          | 6 AWG                             | .178" (4.52)              | .162" (4.11)   | .020" (.51)                   | 300V                     | 1 Reel, 250' (76.2M)   | 2 Reels              |
| TV105-5TL            | TV105-5TL20          | 5 AWG                             | .198" (5.02)              | .182" (4.62)   | .020" (.51)                   | 300V                     | 1 Reel, 250' (76.2M)   | 2 Reels              |
| TV105-4TL            | TV105-4TL20          | 4 AWG                             | .224" (5.68)              | .204" (5.18)   | .020" (.51)                   | 300V                     | 1 Reel, 250' (76.2M)   | 2 Reels              |
| TV105-3TL            | TV105-3TL20          | 3 AWG                             | .249" (6.32)              | .229" (5.82)   | .020" (.51)                   | 300V                     | 1 Reel, 250' (76.2M)   | 2 Reels              |
| TV105-2TL            | TV105-2TL20          | 2 AWG                             | .278" (7.06)              | .258" (6.55)   | .020" (.51)                   | 300V                     | 1 Reel, 250' (76.2M)   | 2 Reels              |
| TV105-1TL            | TV105-1TL20          | 1 AWG                             | .311" (7.89)              | .289" (7.34)   | .020" (.51)                   | 300V                     | 1 Reel, 250' (76.2M)   | 2 Reels              |
| TV105-0TL            | TV105-0TL20          | 0 AWG                             | .347" (8.81)              | .325" (8.26)   | .020" (.51)                   | 300V                     | 1 Reel, 250' (76.2M)   | 2 Reels              |
| TV105-.25TL          | TV105-.25TL20        | 1/4"                              | .265" (6.73)              | .245" (6.22)   | .020" (.51)                   | 300V                     | 1 Reel, 250' (76.2M)   | 2 Reels              |
| TV105-.31TL          | TV105-.31TL20        | 5/16"                             | .334" (8.48)              | .313" (7.95)   | .025" (.64)                   | 600V                     | 1 Reel, 250' (76.2M)   | 2 Reels              |
| TV105-.38TL          | TV105-.38TL20        | 3/8"                              | .399" (10.13)             | .375" (9.53)   | .025" (.64)                   | 600V                     | 1 Reel, 250' (76.2M)   | 2 Reels              |
| TV105-.44TL          | TV105-.44TL20        | 7/16"                             | .462" (11.73)             | .438" (11.13)  | .025" (.64)                   | 600V                     | 1 Reel, 250' (76.2M)   | 2 Reels              |
| TV105-.50TL          | TV105-.50TL20        | 1/2"                              | .524" (13.30)             | .500" (12.70)  | .025" (.64)                   | 600V                     | 1 Reel, 250' (76.2M)   | 2 Reels              |
| TV105-.56C           | TV105-.56C20         | 9/16"                             | .585" (14.85)             | .563" (14.30)  | .030" (.76)                   | 600V                     | 1 Reel, 100' (30.5M)   | 2 Reels              |
| TV105-.63C           | TV105-.63C20         | 5/8"                              | .655" (16.63)             | .625" (15.88)  | .030" (.76)                   | 600V                     | 1 Reel, 100' (30.5M)   | 2 Reels              |
| TV105-.75C           | TV105-.75C20         | 3/4"                              | .786" (19.96)             | .750" (19.05)  | .035" (.89)                   | 600V                     | 1 Reel, 100' (30.5M)   | 2 Reels              |
| TV105-.88C           | TV105-.88C20         | 7/8"                              | .911" (23.13)             | .875" (22.23)  | .035" (.89)                   | 600V                     | 1 Reel, 100' (30.5M)   | 2 Reels              |
| TV105-1.0L           | TV105-1.0L20         | 1"                                | 1.036" (26.31)            | 1.000" (25.40) | .035" (.89)                   | 600V                     | 1 Reel, 50' (15.2M)    | 2 Reels              |
| TV105-1.25L          | TV105-1.25L20        | 1 1/4"                            | 1.290" (32.76)            | 1.250" (31.75) | .040" (1.02)                  | 600V                     | 1 Reel, 50' (15.2M)    | 2 Reels              |
| TV105-1.50L          | TV105-1.50L20        | 1 1/2"                            | 1.550" (39.37)            | 1.500" (38.10) | .045" (1.14)                  | 600V                     | 1 Reel, 50' (15.2M)    | 2 Reels              |

\* Order in multiples of Std. Pkg. Qty.

\*\* UL Voltage Rating is a function of wall thickness.