



IKEBANA
KNILL GRUPPE

Heat Shrinkable Thin Wall Tubes: TWT

Product Features & Applications



Ikebana Thin Wall Tubes are flexible commercial grade tubing useful for applications such as bundling, colour coding and harnessing of wires in automotive, electrical and electronics industry. Ikebana Thin Wall Tubes offer excellent insulation and mechanical protection for the wires. A wide colour range makes the tube very attractive for various applications.

- **EXCELLENT HEAT RESISTANCE:** Made from cross linked polyolefins, non melting
- **LARGER APPLICATION RANGE:** Expansion ratio 2:1 and available in a range of colours.
- **CONTINUOUS OPERATING TEMPERATURE:** -55 °C TO +135 °C
- **EASY INSTALLATION:** In the factory or at site using hot blower or in a hot air oven. Shrinks uniformly over uneven surfaces. Minimum 100 °C shrink temperature.
- **SIZES:** Available in either metric size (1.0 mm to 50.0 mm) or imperial inch size (3/64" to 2").

Product Types

- Non-flame Retardant Heat Shrinkable Thin Wall Tubing : Ikebana TWT
 - Commercial Grade Self-extinguishing Thin Wall Tubing : Ikebana TWT-F
- Standard Colours: Black, Blue, Red, Yellow, Green, White, Grey, Clear (TWT only)

Properties

	Test Method	Typical Data
Tensile Strength	ASTM D 638	13.5 MPa
Ultimate Elongation	ASTM D 638	450%
Accelerated ageing : 7 days at 158 deg. C	ASTM D 2671	
Tensile Strength		12.4 MPa
Ultimate Elongation		400%
Heat Shock : 4hrs at 250 deg. C	ASTM D 2671	No cracking, dripping or flowing
Flammability (For TWT-F only)	ASTM D 2671	Pass
Volume Resistivity	IEC 60093	1 x 10 ¹⁴ Ohm cm
Dielectric Strength	IEC 60243	25 kV/mm



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Dimensions and ordering information



Size	Inside Diameter		Wall Thickness W-R	Standard Spool Length meters
	D-S (min)	D-R (max)		
Metric Sizes:				
1.0/0.5	1.00	0.50	0.33	200
1.5/0.75	1.50	0.75	0.36	200
2.0/1.0	2.00	1.00	0.44	200
2.5/1.25	2.50	1.25	0.44	200
3.0/1.5	3.00	1.50	0.44	150
3.5/1.75	3.50	1.75	0.44	150
4.0/2.0	4.00	2.00	0.44	150
5.0/2.5	5.00	2.50	0.56	150
6.0/3.0	6.00	3.00	0.56	150
7.0/3.5	7.00	3.50	0.56	100
8.0/4.0	8.00	4.00	0.56	100
9.0/4.5	9.00	4.50	0.56	100
10.0/5.0	10.00	5.00	0.56	100
11.0/5.5	11.00	5.50	0.56	100
12.0/6.0	12.00	6.00	0.56	100
13.0/6.5	13.00	6.50	0.69	100
14.0/7.0	14.00	7.00	0.69	100
15.0/7.5	15.00	7.50	0.69	100
16.0/8.0	16.00	8.00	0.69	100
18.0/9.0	18.00	9.00	0.76	100
20.0/10.0	20.00	10.00	0.76	100
22.0/11.0	22.00	11.00	0.76	100
25.0/12.5	25.00	12.50	0.86	50
30.0/15.0	30.00	15.00	0.86	50
40.0/20.0	40.00	20.00	0.96	25
50.0/25.0	50.00	25.00	0.96	25
Inch Sizes:				
3/64"	1.2	0.6	0.33	200
1/16"	1.6	0.8	0.36	200
3/32"	2.4	1.2	0.44	200
1/8"	3.2	1.6	0.44	150
3/16"	4.8	2.4	0.44	150
1/4"	6.4	3.2	0.56	150
3/8"	9.5	4.8	0.56	100
1/2"	12.7	6.35	0.56	100
3/4"	19	9.5	0.69	100
1"	25.4	12.7	0.76	50
1½"	38.2	19.1	0.96	25
2"	50.8	25.4	0.96	25

S : As Supplied

R : Fully Recovered

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