

STW-B[□]

Triple Insulation Wire

Introduction

YOUNG CHANG SILICONE's STW-B wire is designed to fulfill the requirement of Class B thermal index. STW-B is the insulated winding wire having reinforced insulation complying with subclause 2.9.4.4 Annex U of IEC 60950 and subclause 2.10.5.4, Annex U of IEC. STW-B makes a merit of needing no interlayer insulation material such as insulation tape or barrier tape, thereby downsizing transformers a great deal, bringing about high efficiency and cost cutback. Easier to design environmentally friendly transformers which can be easily disassembled and recycled. It is anticipated that Young Chang Silicone's STW-B will play a role in a widening range of fields.

Features

- **Downsizing switching transformers without the use of interlayer insulation materials**

- **Excellent electric insulation properties**

- UL authorized "Reinforced Insulation"
- High withstand voltage

Electrical strength test	① Conductor-metal foil test	up to 3,000 AC volt for a minute
	② Twist test	up to 6,000 AC volt for a minute

- **Reliability for high frequency-voltage stress conditions**

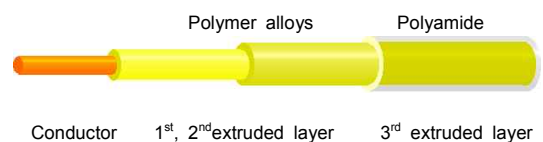
- Suitable for high frequency-voltage 20~500 kHz
- Low dielectric constant and unique electric properties
- High abrasion resistance coupled with mechanical strength

- **High efficiency and cost savings**

- Simplified production method without interlayer insulation tape or barrier tape
- Solderable without stripping any surface layer

Ranges of Usage

Insulation	: Triple extruded (reinforced Insulation)
Rated Temperature	: 105~130℃
Rated Volt	: 1,000 Vrms (Maximum)
Conductor	: 0.2 ~ 1.0 mm (#32 to #18 AWG)
Solderability	: Solderable without stripping



Related Standard of STW-B

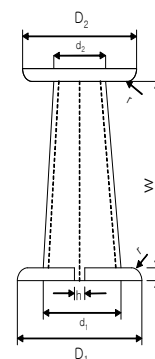
Certification	UL	CSA	BSI	TUV	NEMKO	VDE
International Standard	UL1950, 1411	C22.2 No. 1 No. 950 C/A Notice 15A	EN60065 EN60950	IEC60950 EN60950 EN60065	EN60950 IEC60950	EN60335 EN60950

Dimensions of STW-B

Dimensions					Maximum Conductor Resistance	Conductor Elongation	Product Length	Total Weight	Bobbin Size
Conductor		Insulator							
Diameter	Tolerance	Min. Insulation Thickness	Mean Diameter	Maximum Diameter					
mm	mm	mm	mm	mm	Ω/km	%	m	kg	-
0.20	±0.008	0.090	0.400	0.420	607.6	10	6,000	3.2	PT-10
0.25	±0.008	0.090	0.450	0.470	382.5	10	6,000	4.3	PT-10
0.28	±0.010	0.090	0.480	0.500	307.3	10	6,000	4.9	PT-10
0.30	±0.010	0.090	0.500	0.520	262.9	10	6,000	5.5	PT-10
0.32	±0.010	0.090	0.520	0.540	230.0	10	6,000	6.2	PT-15
0.35	±0.010	0.090	0.550	0.570	191.2	10	6,000	7.2	PT-15
0.37	±0.010	0.090	0.570	0.590	170.6	10	6,000	7.8	PT-15
0.40	±0.010	0.090	0.600	0.625	145.3	10	5,000	7.6	PT-15
0.45	±0.010	0.090	0.650	0.675	114.2	10	5,000	9.2	PT-15
0.50	±0.010	0.090	0.700	0.725	91.43	10	4,000	8.6	PT-15
0.55	±0.020	0.090	0.750	0.775	78.15	10	4,000	10.4	PT-15
0.60	±0.020	0.090	0.800	0.825	65.26	10	3,000	9.1	PT-15
0.65	±0.020	0.090	0.850	0.875	55.31	10	3,000	10.5	PT-15
0.70	±0.020	0.090	0.900	0.925	47.47	10	3,000	12.9	PT-25
0.75	±0.020	0.090	0.950	0.975	41.19	10	3,000	14.1	PT-25
0.80	±0.020	0.090	1.000	1.030	36.08	10	2,000	11.2	PT-25
0.85	±0.020	0.090	1.050	1.080	31.87	10	2,000	12.3	PT-25
0.90	±0.020	0.090	1.100	1.130	28.35	10	2,000	13.2	PT-25
0.95	±0.020	0.090	1.150	1.180	25.38	10	2,000	15.0	PT-25
1.00	±0.030	0.090	1.200	1.230	23.33	10	2,000	16.3	PT-25

Bobbin Dimension

Spool	Flange Diameter (mm)		Barrel Diameter (mm)		Inside Width (mm)	Flange thickness (mm)	Bore Diameter (mm)	Spool net weight (g)	Standard net weight (g)
	D1	D2	d1	d2					
PT-10	180±0.5	160±0.5	110±0.5	96±0.5	200±0.4	15±0.2	26±0.05	540±5	10.0
PT-15	200±0.5	180±0.5	110±0.5	96±0.5	200±0.4	15±0.2	30±0.05	765±5	15.0
PT-25	230±0.5	215±0.5	130±0.5	110±0.5	250±0.4	15±0.2	30±0.05	985±5	25.0





<http://www.ycsc.co.kr>

Product Service

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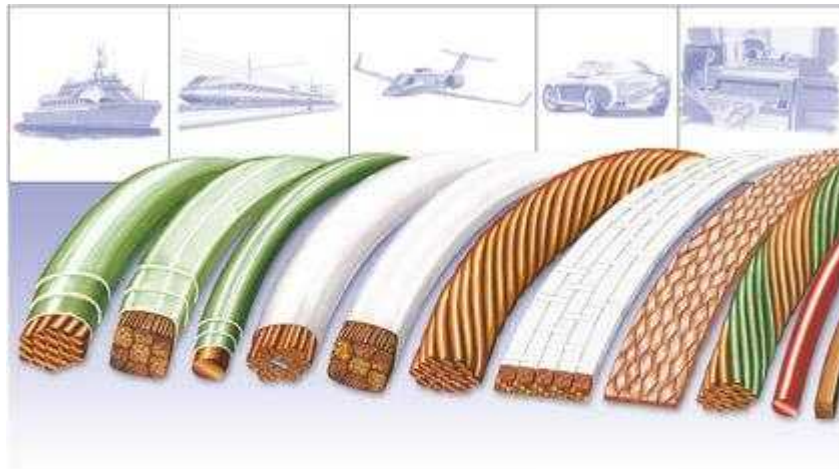




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