

Welcome to WOER- Leading in Heat Shrink Technology

WOER- A Global Success

Woer provides electrical and mechanical insulation solutions for the Automotive, Electrical/Utility, Electronics and Communications markets. Founded in 1998, Woer has emerged to become one of the largest heat shrink manufacturers in the world.

Woer is the complete source for heat shrink products and related technology. Our product offering includes polyolefin, fluoropolymer, elastomer and PVC heat shrink based materials in thin, medium and heavy wall tubing as well as heat shrink accessories and equipment. New products are continuously being developed to meet industry requirements. Moreover, a commitment to develop unique solutions for customer applications has earned Woer a reputation for excellence in customer satisfaction.

Manufacturing & Distribution

Longgang

Xili

Jintan

Research & Development

Longgang

Xili

Jintan

WOER Heat Shrinkable Material Co., Ltd

[Http://www.woer.com](http://www.woer.com)

Quality Assurance/Environmental Protection

Woer is committed to quality all products in accordance with ISO9001 ISO/TS 16949, ISO 14001. Copies of our certification are available upon request.

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Single Wall Product

Single Wall heat shrinkable tubing is used in the electronic, automotive, military & aerospace sectors in a variety of applications, including:

- Mechanical Protection
- Abrasion Protection
- Strain Relief
- Moisture Protection
- Cable Insulation
- Marking & Bundling of electronic components



Dimensions

SIZE		AS SUPPLIED	AFTER RECOVERY		STANDARD P
Inch	mm	INTERNAL DIAMETER mm	INTERNAL DIAMETER MAX mm	WALL THICKNESS NOM mm	SPOOL LENGTH M/spool
3/64	0.8	1.1±0.2	0.50	0.22	200
1/16	1.0	1.5±0.2	0.65	0.28	200
	1.5	2.0±0.2	0.85	0.32	200
3/32	2.0	2.5±0.2	1.00	0.35	200
	2.5	3.0±0.2	1.30	0.38	200
1/8	3.0	3.5±0.2	1.50	0.40	200
	3.5	4.0±0.2	1.80	0.42	200
	4.0	4.5±0.2	2.00	0.45	200
3/16	4.5	5.0±0.2	2.30	0.50	200
	5.0	5.5±0.2	2.5	0.55	100
1/4	6.0	6.5±0.2	3.0	0.55	100
5/16	7.0	7.5±0.3	3.5	0.55	100
	8.0	8.5±0.3	4.0	0.60	100
3/8	9.0	9.5±0.3	4.5	0.60	100
	10.0	10.5±0.3	5.0	0.60	100
	11.0	11.5±0.3	5.5	0.60	100
1/2	12.0	12.5±0.3	6.0	0.60	100
	13.0	13.5±0.3	6.5	0.65	100
	14.0	14.5±0.3	7.0	0.65	100
5/8	15.0	15.5±0.4	7.5	0.70	100
	16.0	16.5±0.4	8.0	0.70	100
	17.0	17.5±0.4	8.5	0.70	100
3/4	18.0	19.0±0.5	9.0	0.80	100
	20.0	21.0±0.5	10.0	0.80	100
	22.0	23.0±0.5	11.0	0.80	100
1	25.0	26.0±0.5	12.5	0.90	50
	28.0	29.0±0.5	14.0	0.90	50
1-1/4	30.0	31.5±1.0	15.0	0.95	50
	35.0	36.5±1.0	17.5	1.00	50
1-1/2	40.0	41.5±1.0	20.0	1.00	50
	45.0	46.5±1.0	22.5	1.00	25
2	50.0	>50	25.0	1.00	25
	60.0	>60	31.0	1.30	25
	70.0	>70	36.0	1.30	25
3	80.0	>80	41.0	1.46	25
	90.0	>90	46.0	1.46	25
4	100.0	>100	51.0	1.46	25
5	120.0	>120	61.0	1.56	25
6	150.0	>150	76.0	1.56	25
7	180.0	>180	91.0	1.56	25

-H(RSFR-H)

en, flexible tubing



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etardant

pk generation if burning

ous Operating

ature: -45°C to 125°C

Temperature: 120°C

and Sony compliant



Technical Data

Physical

Property	Test Method	Typical Performance
Tensile Strength	ASTM D2671	10.4MPa
Elongation (%)	ASTM D2671	200
Tensile Strength after Heat aging	UL 224 158°C X168hrs	≥7.3
Elongation after	UL 224 158°C	>200

Electrical

Property	Test Method
Dielectric Strength	IEC 243
Volume Resistivity	IEC 93

Chemical

Property	Test Method
	UL 224 158°C

Dimensions

SIZE		AS SUPPLIED	AFTER RECOVERY		STANDARD P
Inch	mm	INTERNAL DIAMETER mm	INTERNAL DIAMETER MAX mm	WALL THICKNESS NOM mm	SPOOL LENGTH M/spool
1/16	1.0	1.4±0.2	0.65	0.20	200
	1.5	1.9±0.2	0.85	0.20	200
3/32	2.0	2.4±0.2	1.00	0.22	200
	2.5	2.9±0.2	1.30	0.25	200
1/8	3.0	3.4±0.2	1.50	0.28	200
	3.5	3.9±0.2	1.80	0.28	200
	4.0	4.4±0.2	2.00	0.30	200
3/16	4.5	4.9±0.2	2.30	0.30	200
	5.0	5.5±0.2	2.5	0.32	100
1/4	6.0	6.5±0.2	3.0	0.32	100
5/16	7.0	7.5±0.3	3.5	0.32	100
	8.0	8.5±0.3	4.0	0.32	100
3/8	9.0	9.5±0.3	4.5	0.35	100
	10.0	10.5±0.3	5.0	0.35	100
	11.0	11.5±0.3	5.5	0.40	100
1/2	12.0	12.5±0.3	6.0	0.40	100
	13.0	13.5±0.3	6.5	0.40	100
	14.0	14.5±0.3	7.0	0.40	100
5/8	15.0	15.5±0.4	7.5	0.40	100
	16.0	16.5±0.4	8.0	0.40	100
	17.0	17.5±0.4	8.5	0.40	100
3/4	18.0	18.5±0.4	9.0	0.42	100
	20.0	20.5±0.5	10.0	0.45	100
	22.0	22.5±0.5	11.0	0.45	100
1	25.0	25.5±0.5	12.5	0.45	50

-HCB

all Zero halogen, flexible tubing.

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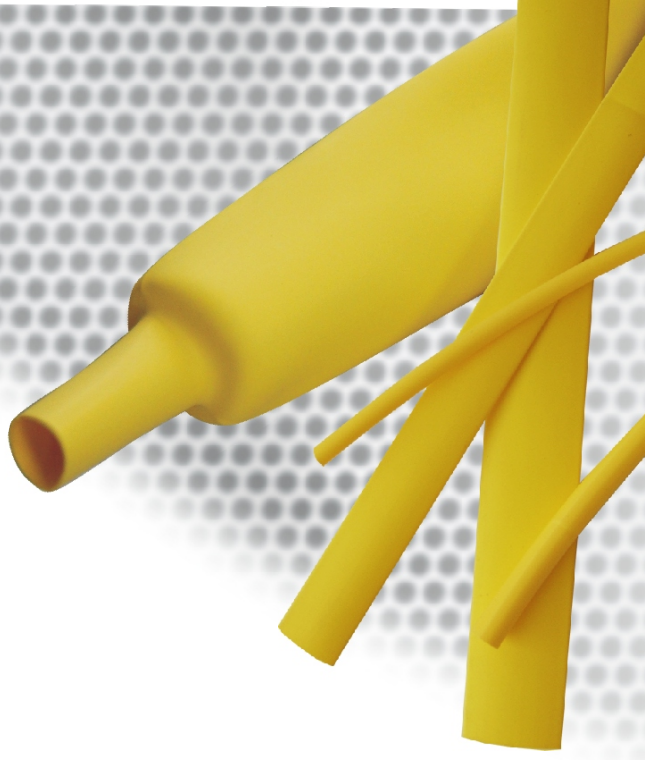
bk generation if burning

ous Operating

ature: -45°C to 125°C

Temperature: 120°C

and Sony compliant



Technical Data

Physical

Property	Test Method	Typical Performance
Tensile Strength	STM D2671	10.4MPa
Elongation (%)	ASTM D2671	200
Tensile Strength after Heat aging	UL 224 158°C X168hrs	≥7.3
Elongation after Heat aging	UL 224 158°C X168hrs	≥100
Heat shock	UL 224 250°C X 4hrs	NO dripping NO cracking

Electrical

Property	Test Method
Dielectric Strength	IEC 243
Volume Resistivity	IEC 93

Chemical

Property	Test Method
Corrosion Action	UL 224 158°C X168hrs
Copper Compatibility	UL 224 158°C X168hrs

Dimensions

SIZE		AS SUPPLIED	AFTER RECOVERY		STANDARD P
Inch	mm	INTERNAL DIAMETER mm	INTERNAL DIAMETER MAX mm	WALL THICKNESS NOM mm	SPOOL LENGTH M/spool
3/64	0.8	1.1±0.2	0.50	0.22	200
1/16	1.0	1.5±0.2	0.65	0.28	200
	1.5	2.0±0.2	0.85	0.32	200
3/32	2.0	2.5±0.2	1.00	0.35	200
	2.5	3.0±0.2	1.30	0.38	200
1/8	3.0	3.5±0.2	1.50	0.40	200
	3.5	4.0±0.2	1.80	0.42	200
	4.0	4.5±0.2	2.00	0.45	200
3/16	4.5	5.0±0.2	2.30	0.50	200
	5.0	5.5±0.2	2.5	0.55	100
1/4	6.0	6.5±0.2	3.0	0.55	100
5/16	7.0	7.5±0.3	3.5	0.55	100
	8.0	8.5±0.3	4.0	0.60	100
3/8	9.0	9.5±0.3	4.5	0.60	100
	10.0	10.5±0.3	5.0	0.60	100
	11.0	11.5±0.3	5.5	0.60	100
1/2	12.0	12.5±0.3	6.0	0.60	100
	13.0	13.5±0.3	6.5	0.65	100
	14.0	14.5±0.3	7.0	0.65	100
5/8	15.0	15.5±0.4	7.5	0.70	100
	16.0	16.5±0.4	8.0	0.70	100
	17.0	17.5±0.4	8.5	0.70	100
3/4	18.0	19.0±0.5	9.0	0.80	100
	20.0	21.0±0.5	10.0	0.80	100
	22.0	23.0±0.5	11.0	0.80	100
1	25.0	26.0±0.5	12.5	0.90	50
	28.0	29.0±0.5	14.0	0.90	50
1-1/4	30.0	31.5±1.0	15.0	0.95	50
1-1/2	35.0	36.5±1.0	17.5	1.00	50
	40.0	41.5±1.0	20.0	1.00	50
	45.0	46.5±1.0	22.5	1.00	25
2	50.0	≥50	25.0	1.00	25
	60.0	≥60	31.0	1.30	25
	70.0	≥70	36.0	1.30	25
3	80.0	≥80	41.0	1.46	25
	90.0	≥90	46.0	1.46	25
4	100.0	≥100	51.0	1.46	25
5	120.0	≥120	61	1.56	25
6	150.0	≥150	76	1.56	25
7	180.0	≥180	91	1.56	25

-PT

Heat shrink tubing with physical and mechanical



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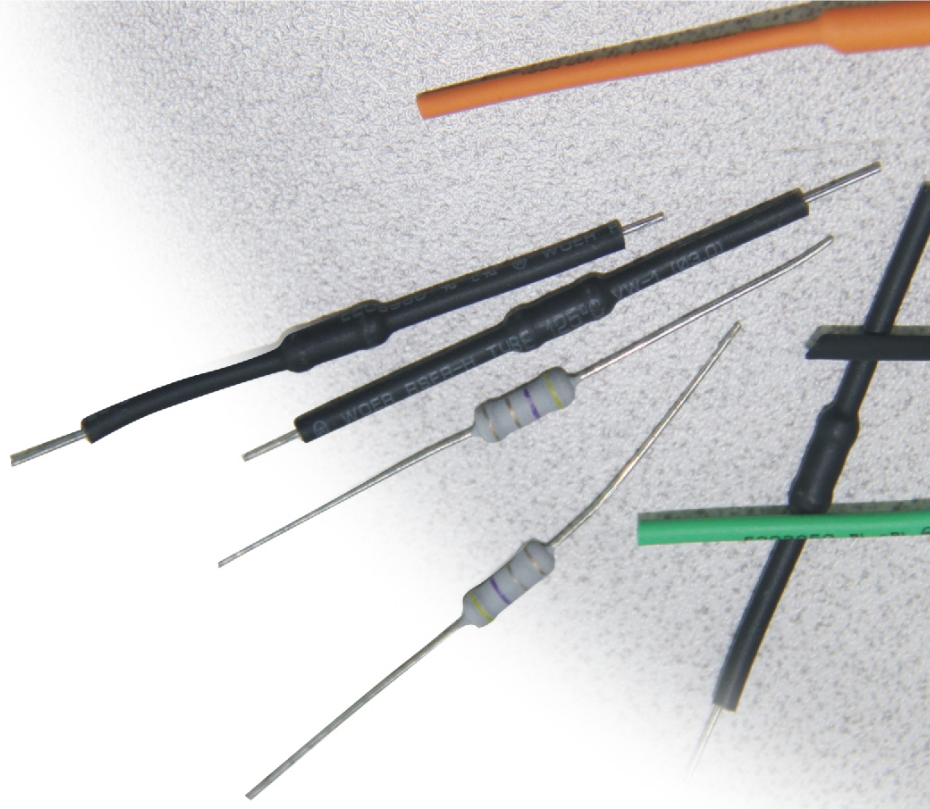
Standard

Operating

Temperature: -55°C to 125°C

Temperature: 70°C ~ 125°C

Compliant



Technical Data Physical

Property	Test Method	Typical Performance
Tensile Strength	ASTM D2671	10.4MPa
Elongation (%)	ASTM D2671	200
Tensile Strength after Heat aging	UL 224 158°C X168hrs	≥7.3
Elongation after	UL 224 158°C	≥100

Electrical

Property	Test Method
Dielectric Strength	IEC 243
Volume Resistivity	IEC 93

Chemical

Property	Test Method
Compliance After	UL 224 158°C

Dimension

SIZE		AS SUPPLIED	AFTER RECOVERY		STANDARD P
Inch	mm	INTERNAL DIAMETER mm	INTERNAL DIAMETER MAX mm	WALL THICKNESS NOM mm	SPOOL LENGTH M/spool
1/16	1.0	1.4±0.2	0.65	0.20	200
	1.5	1.9±0.2	0.85	0.20	200
3/32	2.0	2.4±0.2	1.00	0.22	200
	2.5	2.9±0.2	1.30	0.25	200
1/8	3.0	3.4±0.2	1.50	0.28	200
	3.5	3.9±0.2	1.80	0.28	200
	4.0	4.4±0.2	2.00	0.30	200
3/16	4.5	4.9±0.2	2.30	0.30	200
	5.0	5.5±0.2	2.5	0.32	100
1/4	6.0	6.5±0.2	3.0	0.32	100
5/16	7.0	7.5±0.3	3.5	0.32	100
	8.0	8.5±0.3	4.0	0.32	100
3/8	9.0	9.5±0.3	4.5	0.35	100
	10.0	10.5±0.3	5.0	0.35	100
	11.0	11.5±0.3	5.5	0.40	100
1/2	12.0	12.5±0.3	6.0	0.40	100
	13.0	13.5±0.3	6.5	0.40	100
	14.0	14.5±0.3	7.0	0.40	100
5/8	15.0	15.5±0.4	7.5	0.40	100
	16.0	16.5±0.4	8.0	0.40	100
	17.0	17.5±0.4	8.5	0.40	100
3/4	18.0	18.5±0.4	9.0	0.42	100
	20.0	20.5±0.5	10.0	0.45	100
	22.0	22.5±0.5	11.0	0.45	100
1	25.0	25.5±0.5	12.5	0.45	50

-PTCB

all, very flexible tubing

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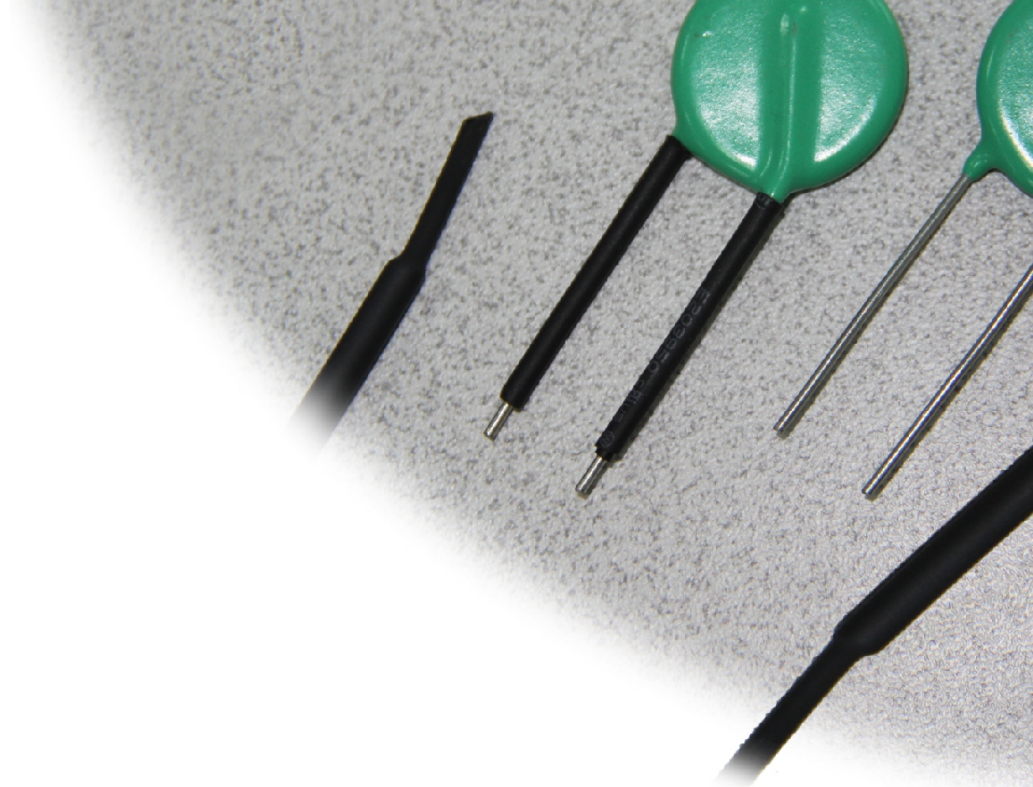
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ous Operating

ature: -55°C to 125°C

emperature: 70°C ~110°C

ompliant



Technical Data

Physical

Property	Test Method	Typical Performance
Tensile Strength	ASTM D2671	10.4MPa
Elongation(%)	ASTM D2671	200
Tensile Strength after Heat aging	UL 224 158°C X168hrs	≥ 7.3
Elongation after Heat aging	UL 224 158°C X168hrs	≥ 100
Heat shock	UL 224 250°C X 4hrs	NO dripping NO cracking

Electrical

Property	Test Method
Dielectric Strength	IEC 243
Volume Resistivity	IEC 93

Chemical

Property	Test Method
Corrosion Action	UL 224 158 X168hrs
Copper Compatibility	UL 224 158 X168hrs

Dimensions

W-1-HL(2X)

SIZE (MM)	AS SUPPLIED (MM)		AFTER RECOVERY (MM)		STANDARD PACKAGE M/SPOOL
	INTERNAL DIAMETER	WALL THICKNESS	INTERNAL DIAMETER	WALL THICKNESS	
Φ1.0	1.5±0.3	0.15±0.08	≤0.65	0.28±0.10	200
Φ1.5	2.0±0.3	0.18±0.08	≤0.85	0.30±0.10	200
Φ2.0	2.5±0.3	0.18±0.08	≤1.00	0.35±0.10	200
Φ2.5	3.0±0.3	0.18±0.08	≤1.30	0.36±0.10	200
Φ3.0	3.5±0.4	0.18±0.08	≤1.50	0.38±0.10	200
Φ3.5	4.0±0.4	0.22±0.08	≤1.80	0.40±0.10	200
Φ4.0	4.5±0.4	0.25±0.08	≤2.00	0.45±0.10	200
Φ4.5	5.0±0.4	0.25±0.08	≤2.30	0.45±0.10	100
Φ5.0	5.5±0.4	0.25±0.08	≤2.5	0.45±0.10	100
Φ6.0	6.5±0.4	0.28±0.08	≤3.0	0.50±0.10	100
Φ7.0	7.5±0.4	0.28±0.08	≤3.5	0.50±0.10	100
Φ8.0	8.5±0.5	0.28±0.08	≤4.0	0.55±0.10	100
Φ9.0	9.5±0.5	0.30±0.10	≤4.5	0.55±0.10	100
Φ10	10.5±0.5	0.30±0.10	≤5.0	0.55±0.10	100
Φ11	11.5±0.5	0.30±0.10	≤5.5	0.60±0.10	100
Φ12	12.5±0.5	0.30±0.10	≤6.0	0.60±0.10	100
Φ13	13.5±0.5	0.35±0.12	≤6.5	0.60±0.10	100
Φ14	14.5±0.5	0.35±0.12	≤7.0	0.65±0.10	100
Φ15	15.5±0.6	0.40±0.12	≤7.5	0.70±0.10	100
Φ16	17.0±0.6	0.40±0.12	≤8.0	0.70±0.10	100
Φ17	17.5±0.6	0.40±0.12	≤8.5	0.70±0.10	100
Φ18	19.0±0.7	0.40±0.15	≤9.0	0.70±0.15	100
Φ20	22.0±0.7	0.40±0.15	≤10.0	0.75±0.15	100
Φ22	24.0±0.7	0.40±0.15	≤11.0	0.80±0.15	100
Φ25	26.0±0.7	0.55±0.15	≤12.5	0.90±0.15	50
Φ28	29.0±0.7	0.55±0.15	≤14.0	0.90±0.15	50
Φ30	31.5±0.7	0.55±0.15	≤15.0	0.95±0.15	50
Φ35	36.5±0.7	0.55±0.15	≤17.5	0.95±0.15	50
Φ40	41.5±0.7	0.55±0.15	≤20.0	1.00±0.20	50
Φ45	46.0±0.7	0.55±0.15	≤22.5	1.00±0.20	25
Φ50	51.0±0.7	0.55±0.15	≤25.0	1.00±0.20	25
Φ60	≥60	0.60±0.15	≤30.0	1.10±0.20	25
Φ70	≥70	0.65±0.15	≤35.0	1.20±0.20	25
Φ80	≥80	0.70±0.15	≤40.0	1.30±0.20	25
Φ90	≥90	0.75±0.15	≤45.0	1.50±0.20	25
Φ100	≥100	0.80±0.20	≤50.0	1.65±0.20	25
Φ120	≥120	0.85±0.20	≤60.0	1.70±0.20	25
Φ150	≥150	0.90±0.20	≤75.0	1.70±0.20	25
Φ180	≥180	0.95±0.30	≤90.0	1.75±0.20	25

-HL(2X,3X)

en stripped, flexible, flame-retardant.



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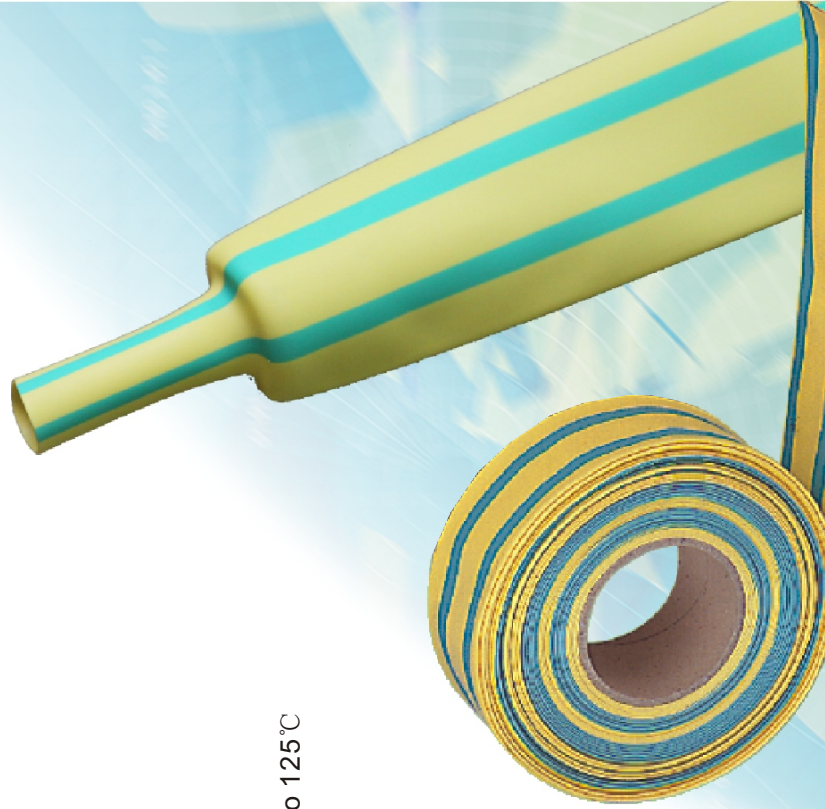
etardant

ng Temperature: -55°C to 125°C

Ratio: 2:1, 3:1

Temperature: 120°C

ompliant



W-1-HL(3X)

SIZE	AS SUPPLIED		AFTER RECOVERY		STANDARD PACKAGE M/SPOOL
	INCH	MM	INTERNAL DIAMETER	WALL THICKNESS (MM)	
1/8	3.2	3.2	1.0	0.60±0.15	200
3/16	4.8	4.8	1.5	0.65±0.15	100
1/4	6.4	6.4	2.0	0.70±0.15	100
3/8	9.5	9.5	3.0	0.80±0.15	50
1/2	12.7	12.7	4.0	0.95±0.20	50
3/4	19.1	19.1	6.0	1.10±0.20	50
1	25.4	25.4	8.0	1.25±0.20	50

Technical

Property	Value
Tensile strength(MPa)	
Elongation(%)	
Dielectric strength(kV/mm)	
Volume resistivity(Ω cm)	
Tensile strength after aging	
Elongation after aging(%)	
Heat shock	
Flammability	

Dimensions

SIZE		AS SUPPLIED	AFTER RECOVERY		STANDARD P
Inch	mm	INTERNAL DIAMETER mm	INTERNAL DIAMETER MAX mm	WALL THICKNESS NOM mm	SPOOL LENGTH M/spool
3/64	0.8	1.2	0.6	0.41±0.08	200
1/16	1.0	1.6	0.8	0.43±0.08	200
3/32	2.0	2.4	1.2	0.51±0.08	200
1/8	3.0	3.2	1.6	0.51±0.08	200
3/16	4.5	4.8	2.4	0.51±0.08	100
1/4	6.0	6.4	3.2	0.64±0.08	100
3/8	9.0	9.5	4.8	0.64±0.08	100
1/2	12	12.7	6.4	0.64±0.08	50
5/8	16	15.9	8.0	0.76±0.08	50
3/4	18	19.1	9.5	0.76±0.08	50
1	25	25.4	12.7	0.89±0.12	50
1-1/2	40	38.1	19.1	1.02±0.12	50
2	50	50.8	25.4	1.14±0.12	25
3	80	76.2	38.1	1.27±0.12	25
4	100	101.6	50.8	1.40±0.20	25

ER-135G(2X)

rdant, multi-purpose tubing



ures

for various applications

ous Operating Temperature: -55°C to 135°C

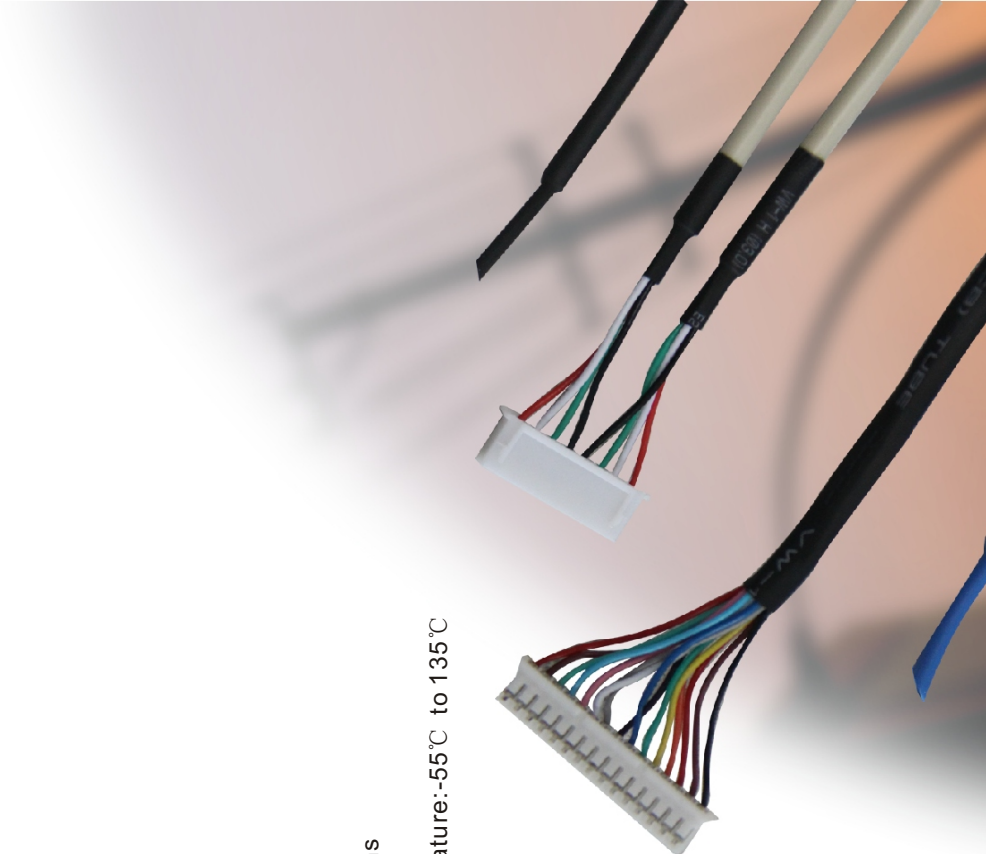
emperature: 110°C

ompliant

AE-AMS-DTL

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and 3



Technical Data Physical

Property	Test Method	Typical Performance
Tensile Strength	ASTM D2671	10.4MPa
Elongation (%)	ASTM D2671	200%

Electrical

Property	Test Method	Typical Performance
Dielectric Strength	IEC 243	≥ 15kv/mm
Volume Resistivity	IEC 93	≥ 1×10 ¹⁴ Ω·cm

Dimensions

SIZE		AS SUPPLIED	AFTER RECOVERY		STANDARD P
Inch	mm	INTERNAL DIAMETER MIN(mm)	INTERNAL DIAMETER MAX mm	WALL THICKNESS NOM mm	SPOOL LENGTH M/spool
1/16	1.5	1.5	0.5	0.45	200
1/8	3.0	3.0	1.0	0.55	200
3/16	4.5	4.5	1.0	0.60	100
1/4	6.0	6.0	2.0	0.65	100
3/8	9.0	9.0	3.0	0.75	50
1/2	12.0	12.0	4.0	0.75	50
5/8	15.0	15.0	5.0	0.80	50
3/4	18.0	18.0	6.0	0.85	50
1	24.0	24.0	8.0	1.00	25
1-1/4	30.0	30.0	10.0	1.15	1.22
1-1/2	39.0	39.0	13.0	1.50	1.22
2	50	50	16	2.50	1
	60	60	20	2.60	1
	70	70	23	2.60	1
3	80	80	26	2.60	1
	90	90	30	2.60	1
4	100	100	33	2.60	1

ER-135G(3X)

ratio, flexible tubing

ures

ink ratio

standard

it to common fluids and solvents

ous Operating Temperature: -55°C to 135°C

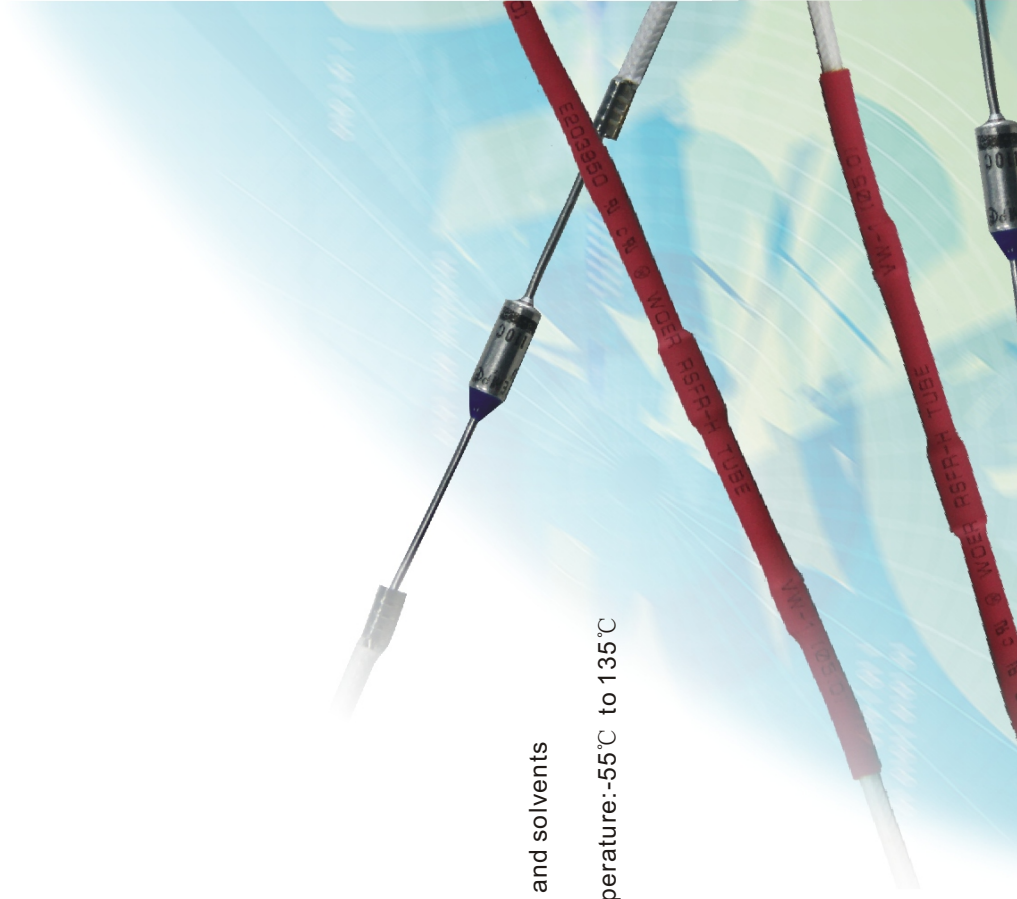
emperature: 120°C

ompliant

AE-AMS-DTL

5

and 3



Technical Data

Physical

Property	Test Method	Typical Performance
Tensile Strength	ASTM D2671	10.4MPa
Elongation (%)	ASTM D2671	200%

Electrical

Property	Test Method	Typical Performance
Dielectric Strength	IEC 243	≥15kv/mm
Volume Resistivity	IEC 93	≥1×10 ¹⁴ Ω·cm

Dimension

SIZE	AS SUPPLIED		AFTER RECOVERY		STANDARD
	INTERNAL DIAMETER MIN.(mm)	INTERNAL DIAMETER MAX mm	WALL THICKNESS NIM mm	SPOON M	
mm					
0.6	0.9±0.2	0.50	0.22		
0.8	1.1±0.2	0.65	0.28		
1.0	1.5±0.2	0.85	0.32		
1.5	2.0±0.2	1.00	0.35		
2.0	2.5±0.2	1.30	0.38		
2.5	3.0±0.2	1.50	0.40		
3.0	3.5±0.2	1.80	0.42		
3.5	4.0±0.2	2.00	0.50		
4.0	4.5±0.2	2.30	0.55		
4.5	5.0±0.2	2.5	0.55		
5.0	5.5±0.2	3.0	0.55		
6.0	6.5±0.2	3.5	0.60		
7.0	7.5±0.3	4.0	0.60		
8.0	8.5±0.3	4.5	0.60		
9.0	9.5±0.3	5.0	0.60		
10.0	10.5±0.3	5.5	0.60		
11	11.5±0.3	6.0	0.65		
12	12.5±0.3	6.5	0.65		
13	13.5±0.3	7.0	0.70		
14	14.5±0.3	7.5	0.70		
15	15.5±0.4	8.0	0.70		
16	16.5±0.4	8.5	0.80		
17	17.5±0.4	9.0	0.80		
18	19.0±0.5	10.0	0.80		
20	21.0±0.5	11.0	0.90		
22	23.0±0.5	12.5	0.90		
25	26.0±0.5	14.0	0.95		
28	29.0±0.5	15.0	1.00		
30	31.5±1.0	17.5	1.00		
35	36.5±1.0	20.0	1.00		
40	41.5±1.0	22.5	1.00		
45	46.0±1.0	25.0	1.00		

FR-105

Flame retardant, non self-extinguishing, high strength heat shrink tubing

Features

Wide Temperature Operating

Operating Temperature: -55°C to 105°C

Storage Temperature: 105°C



Technical Data

Physical

Property	Test Method	Typical Performance
Tensile Strength	ASTM D2671	10.4MPa
Elongation(%)	ASTM D2671	200%

Electrical

Property	Test Method
Dielectric Strength	IEC 243
Volume Resistivity	IEC 93

Dimensions

SIZE		AS SUPPLIED		AFTER RECOVERY		STANDARD P
Inch	mm	INTERNAL DIAMETER	mm	INTERNAL DIAMETER	mm	WALL THICKNESS
						mm
3/64	1.2	1.2	0.6	0.33	200	SPOOL LENGTH
1/16	1.6	1.6	0.8	0.33	200	M/Spool
3/32	2.4	2.4	1.2	0.44	200	
1/8	3.2	3.2	1.6	0.44	200	
3/16	4.8	4.8	2.4	0.44	100	
1/4	6.4	6.4	3.2	0.56	100	
5/16	7.9	7.9	4.0	0.56	100	
3/8	9.5	9.5	4.8	0.56	100	
1/2	12.7	12.7	6.4	0.56	100	
5/8	15.9	15.9	8.0	0.69	100	
3/4	19.1	19.1	9.5	0.69	100	
1	25.4	25.4	12.7	0.77	50	
1-1/4	31.8	31.8	15.9	0.87	50	
1-1/2	38.1	38.1	19.1	0.87	50	
2	50.8	50.8	25.4	0.97	25	
3	76.2	76.2	38.1	1.17	25	
4	101.6	101.6	50.8	1.17	25	
5	127.0	127.0	63.5	1.17	25	
6	152.4	152.4	76.2	1.17	25	

ER-HT (2X)

Fire retardant heat shrink tubing

Features

Fire retardant

Resistance to common fluids and solvents;

Approved

Operating temperature:

150°C

RoHS compliant.

Technical Data

Property	Test Method	Standard
Tensile strength (Mpa)	ASTM D2671	≥10.4
Elongation(%)	ASTM D2671	≥200
Longitudinal change (%)	UL 224	≤±5
Tensile strength after aging (Mpa)	UL 224 180°C×168hrs	≥7.3
Elongation after aging (%)	UL 224 180°C×168hrs	≥100
Heat shock	UL 224 250°C×4hrs	No dripping, No cracking
Cold blend	UL 224 -30°C×1hrs	No cracking
Dielectric strength (kV/mm)	IEC 243	≥15
Volume resistivity (Ω.cm)	IEC 93	≥1×10 ¹⁴
Copper stability	UL 224	PASS
Flammability	UL 224	VW-1
Water absorption(%)	UL 224	≤0.5
Corrosion	UL 224	PASS



Dimensions

SIZE(AWG)	INTERNAL DIAMETER(mm)	WALL THICKNESS(mm)	STANDARD (M/S)
AWG18	1.00±0.10	0.40±0.06	20
AWG16	1.30±0.10	0.40±0.06	20
AWG14	1.65±0.10	0.40±0.06	20
AWG12	2.10±0.15	0.40±0.06	20
AWG10	2.60±0.15	0.50±0.08	20
AWG8	3.30±0.15	0.50±0.08	20
AWG6	4.10±0.20	0.50±0.08	10
AWG4	5.20±0.20	0.50±0.08	10
AWG2	6.50±0.20	0.50±0.08	10
AWG0	8.30±0.30	0.50±0.08	10
3/8"	9.50±0.40	0.50±0.08	10
7/16"	11.10±0.40	0.50±0.08	10
1/2"	12.70±0.40	0.50±0.08	10

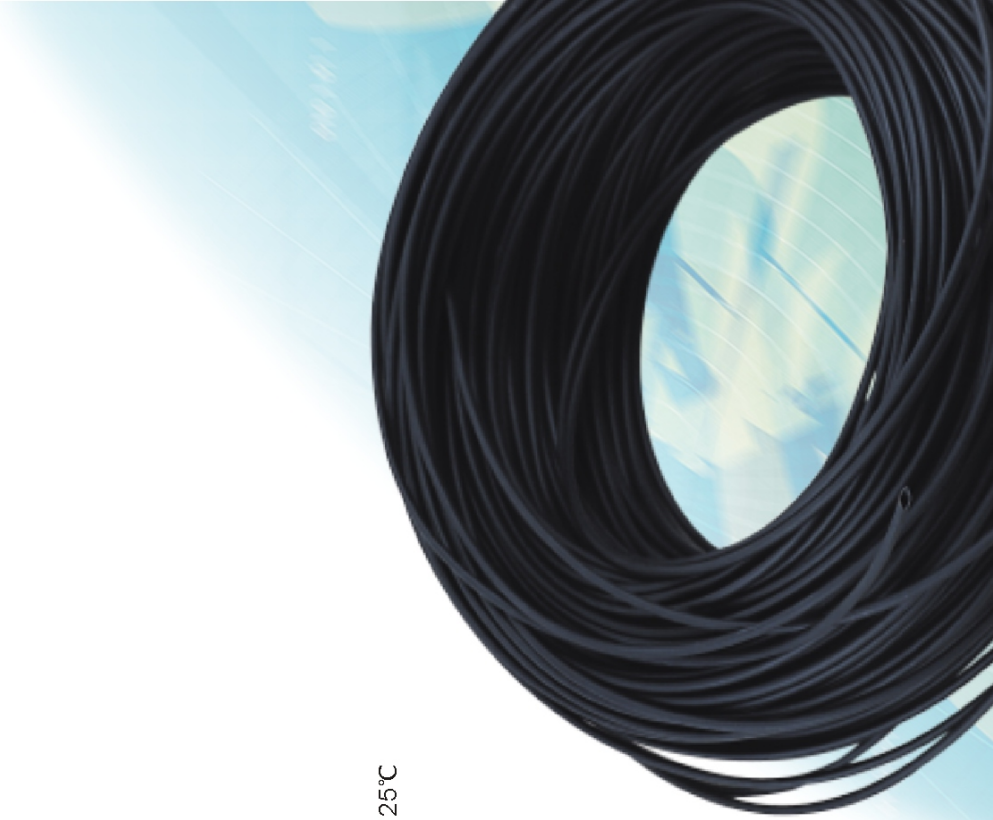
able, Irradiated, Flexible
rdant, Polyolefin Tubing

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etardant

ng temperature: -55°C ~ +125°C

ompliant.

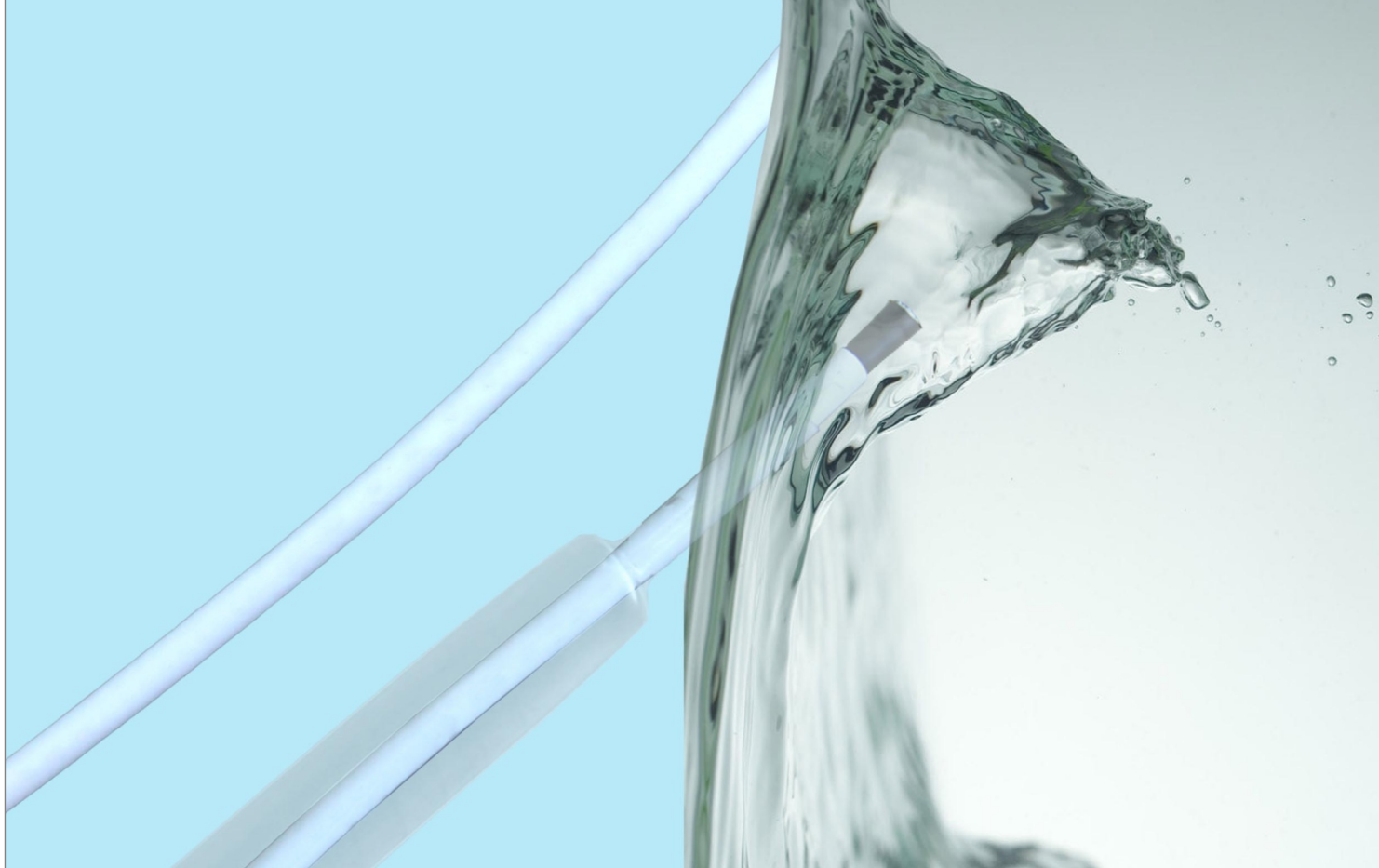


Technical Data

Property	Test Method	Standard
Tensile Strength (MPa)	ASTM D2671	≥10.4
Elongation (%)	ASTM D2671	≥200
Volume resistivity (Ω.cm)	IEC 93	≥10 ¹⁴
Flammability	UL224	Self-extinguis
Corrosion	UL224	PASS
Water absorption (%)	ASTM D570	≤0.5
Dielectric strength (kV/mm)	IEC 243	≥15

Dual Wall Products

WOER offers a wide range of dual wall products. Available combinations of jacket materials and adhesives allow the customer to choose just right tubing for the application and environmental conditions



Dimensions

SIZE		AS SUPPLIED		AFTER RECOVERY			STANDARD P
Inch	mm	INTERNAL DIAMETER mm	INTERNAL DIAMETER mm	INTERNAL DIAMETER mm	TOTAL WALL THICKNESS mm	ADHESIVE THICKNESS mm	SPOOL LENGTH M/spool
1/16	1.6	1.6	0.8	0.8	0.60±0.15	0.3±0.1	200
3/32	2.4	2.4	1.2	1.2	0.70±0.15	0.35±0.1	200
1/8	3.2	3.2	1.6	1.6	0.70±0.15	0.35±0.1	200
3/16	4.8	4.8	2.4	2.4	0.80±0.15	0.4±0.1	100
1/4	6.4	6.4	3.2	3.2	0.80±0.15	0.4±0.1	100
5/16	7.9	7.9	3.9	3.9	0.90±0.15	0.45±0.1	100
3/8	9.5	9.5	4.8	4.8	0.90±0.15	0.45±0.1	1.22
1/2	12.7	12.7	6.4	6.4	0.95±0.20	0.45±0.1	1.22
5/8	15.9	15.9	7.9	7.9	0.95±0.20	0.45±0.1	1.22
3/4	19.1	19.1	9.5	9.5	1.0±0.20	0.45±0.1	1.22
1	25.4	25.4	12.7	12.7	1.1±0.20	0.50±0.1	1.22
1 1/4	31.8	31.8	15	15	1.15±0.20	0.50±0.1	1.22
1 1/2	38.1	38.1	19	19	1.25±0.20	0.50±0.1	1.22
1 3/4	44.5	44.5	22	22	1.35±0.20	0.55±0.1	1.22
2	50.8	50.8	25.4	25.4	1.5±0.25	0.60±0.1	1.22

-SB(2X) Wall Adhesive-Lined Shrink Polyolefin Tubing

Heat shrink tubing with environmental sealing capability for a variety of electrical applications, including automotive and marine harness, wire splices, breakouts, and connector-to-connector applications.



Features

- High strength to weight ratio
- Minimal shrink 8% maximum
- Self flame retardant
- Seals against water, moisture or other contaminants
- Continuous operating temperature: -45°C ~ 125°C
- Maximum temperature: 120°C

Technical Data

Property	Test Method	Standard
Tensile Strength (MPa)	ASTM D2671	≥ 10.4
Elongation	ASTM D2671	≥ 300
Tensile Strength after aging (MPa)	UL224 158°C X168hr	≥ 7.3
Elongation after aging (%)	UL224 158°C X168hr	≥ 200
Dielectric strength (kv/mm)	IEC243	≥ 15
Volume resistivity (Ω.cm)	ASTM D876	≥ 1X10 ¹⁴

Hot Melt Adhesive Property

Property	Test Method	Standard
Water Absorption	ASTM D570	≤ 0.2%
Softening Point	ASTM E8	95°C
Strength of peeling (PE)	ASTM D 1000	120N/25mm
Strength of peeling (AL)	ASTM D 1000	80N/25mm

Dimensions

Size		As supplied		After Recovered (mm)			Stand pack (m/s)
Inch	mm	INTERNAL DIAMETER mm	INERTNAL DIAMETER	TOTAL WALL THICKNESS	WALL THICKNESS OF ADHESIVE		
1/8	3.2	3.2	1.00	0.90 ± 0.15	0.35 ± 0.10	200	
3/16	4.8	4.8	1.60	1.00 ± 0.15	0.40 ± 0.10	100	
1/4	6.4	6.4	2.20	1.25 ± 0.15	0.45 ± 0.12	100	
5/16	7.9	7.9	2.70	1.30 ± 0.15	0.50 ± 0.12	100	
3/8	9.5	9.5	3.20	1.40 ± 0.15	0.50 ± 0.12	50	
1/2	12.7	12.7	4.20	1.70 ± 0.15	0.50 ± 0.12	36	
5/8	15.0	15.0	5.20	1.80 ± 0.15	0.55 ± 0.15	30	
3/4	19.1	19.1	6.30	1.95 ± 0.15	0.55 ± 0.15	30	
1	25.4	25.4	8.50	2.05 ± 0.20	0.55 ± 0.15	30	
1-1/4	30.0	30.0	10.20	2.20 ± 0.20	0.60 ± 0.15	24	
1-1/2	39.0	39	13.50	2.50 ± 0.20	0.60 ± 0.15	18	
2	50.0	50	17.00	2.80 ± 0.25	0.70 ± 0.15	12	
5/2	64	64	21.00	3.00 ± 0.25	0.70 ± 0.15	6.1	
3	75	76	25.00	3.00 ± 0.30	1.00 ± 0.20	1.2	
7/2	90	90	30.00	3.00 ± 0.30	1.00 ± 0.20	1.2	
4	100	100	34.00	3.00 ± 0.30	1.00 ± 0.20	1.2	
5	125	125	42.00	3.00 ± 0.30	1.00 ± 0.20	1.2	

Technical Data

Property	Test Method	Stantard
Tensile Strength (MPa)	ASTM D2671	≥10.4
Elongation	ASTM D2671	≥300
Tensile Strength after aging (MPa)	UI224 158°CX168hr	≥7.3
Elongation after aging (%)	UI224 158°CX168hr	≥200
Dielectric strength (kv/mm)	IEC243	≥15
Volume resistivity (Ω . cm)	ASTM D876	≥1X10 ¹⁴

Hot Melt Adhesive Property

Property	Test Method	Stantard
Water Absorption	ASTM D570	≤0.2%
Softening Point	ASTM E8	95°C
Strength of pear ing (PE)	ASTM D 1000	120N/25mm

-SB(3X)

Wall Adhesive – Lined Shrink Polyolefin Tubing

Heat shrink tubing with environmental sealing capability for a wide range of electrical applications, including automotive and marine wire harnesses, breakouts, and connector-to-cable transitions.

Features

- High strength to weight ratio
- Minimal shrink 8% maximum
- Excellent flame retardant, self-extinguishing
- Resistant to aging against water, salt, and other contaminants
- Wide operating temperature range: -55°C to 125°C
- Operating temperature: 120 °C



Dimensions

Size		As supplied	After Recovered (mm)			Stand pack (m/s)
Inch (mm)	INTERNAL DIAMETER mm	INTERNAL DIAMETER mm	INERTNAL DIAMETER	TOTAL WALL THICKNESS	WALL THICKNESS OF ADHESIVE	
5/32	4.0	4.0	1.0	1.1 ±0.15	0.4 ±0.15	2
1/4	6.0	6.0	1.5	1.5 ±0.15	0.5 ±0.15	10
5/16	8.0	8.0	2.0	1.7 ±0.15	0.5 ±0.15	5
1/2	12.0	12.0	3.0	2.0 ±0.15	0.6 ±0.15	1.22
5/8	16.0	16.0	4.0	2.3 ±0.25	0.6 ±0.15	1.22
25/32	20.0	20.0	5.0	2.6 ±0.25	0.6 ±0.15	1.22
1	24.0	24.0	6.0	3.0 ±0.30	0.7 ±0.15	1.22
3/2	32.0	32.0	8.0	3.0 ±0.30	0.7 ±0.15	1.22
2	52.0	52.0	13.0	3.3 ±0.30	0.7 ±0.15	1.22

-SB(4X) Wall Adhesive-Lined -Shrink Polyolefin Tubing

Heat shrink tubing with environmental sealing capability for a variety of electrical applications, including automotive and harness, wire splices, breakouts, and connector-to-cable

Features

- High shrink ratio
- Minimal shrink 8% maximum
- Self flame retardant
- Sealing against water, oil, and other contaminants
- Wide operating temperature: -55°C to 120°C
- Temperature: 120°C

Technical Data

Property	Test Method	Standard
Tensile Strength (MPa)	ASTM D2671	≥10.4
Elongation	ASTM D2671	≥300
Tensile Strength after aging (MPa)	UI224 158°CX168hr	≥7.3
Elongation after aging (%)	UI224 158°CX168hr	≥200
Dielectric strength (kv/mm)	IEC243	≥15
Volume resistivity (Ω.cm)	ASTM D876	≥1X10 ¹⁴

Hot Melt Adhesive Property

Property	Test Method	Standard
Water Absorption	ASTM D570	≤0.2%
Softening Point	ASTM E8	95°C
Strength of peeling (PE)	ASTM D 1000	120N/25mm
Strength of peeling (AL)	ASTM D 1000	80N/25mm



Dimensions

SIZE		AS SUPPLIED		AFTER RECOVERY			STANDARD
INCH	mm	INTERNAL DIAMETER mm	INTERNAL DIAMETER	TOTAL WALL THICKNESS	WALL THICKNESS OF ADHESIVE	(M)	
1/4	6.0	6.0	1.27	1.30±0.15	0.56±0.15	1.22	
5/16	8.0	8.0	1.65	1.65±0.15	0.76±0.15	1.22	
1/2	12.0	12.0	2.41	2.00±0.15	1.02±0.15	1.22	
3/4	18.0	18.0	4.45	2.50±0.15	1.37±0.15	1.22	

-SB(4X)GR

-Shrink-Ratio, Adhesive-Lined Rigid Polyolefin Tubing

This tubing allows a few sizes to cover a wide range of splice and conduit diameters, mechanically tough tubing provides strain relief and protection of wire splices, terminals, and other components, and is resistant to oils, solvents, and other contaminants.

Features

- High shrink ratio
- Minimal shrink 8% max
- Self flame retardant
- Wide operating temperature: 25°C to 120°C



Technical Data

Property	Test Method	Standard
Tensile Strength (MPa)	ASTM D2671	≥12
Elongation	ASTM D2671	≥300
Tensile Strength after aging (MPa)	UL224 158°CX168hr	≥7.3
Elongation after aging(%)	UL224 158°CX168hr	≥200
Dielectric strength (kv/mm)	IEC243	≥15
Volume resistivity (Ω . cm)	ASTM D676	≥1X10 ¹⁴

Hot Melt Adhesive Property

Property	Test Method	Standard
Water Absorption	ASTM D570	≤0.2%
Softening Point	ASTM E8	95°C
Strength of peeling (PE)	ASTM D 1000	120N/25mm
Strength of peeling (AL)	ASTM D 1000	80N/25mm

Dimensions

SIZE		AS SUPPLIED		AFTER RECOVERY (MM)		
mm	INCH	INTERNAL DIAMETER (MM)	INTERNAL DIAMETER (MM)	TOTAL WALL THICKNESS	WALL THICKNESS OF ADHESIVE LAYER	
3.2	1/8	3.2	1.0	0.95±0.15	0.45±0.10	
4.8	3/16	4.8	1.6	1.20±0.15	0.60±0.10	
6.4	1/4	6.4	2.2	1.35±0.15	0.70±0.10	
7.9	5/16	7.9	2.7	1.50±0.15	0.75±0.10	
9.5	3/8	9.5	3.2	1.65±0.15	0.85±0.10	
12.7	1/2	12.7	4.2	1.80±0.20	0.90±0.10	
15.0	5/8	15.0	5.2	1.80±0.20	0.90±0.10	
19.1	3/4	19.1	6.3	2.00±0.20	1.00±0.10	
25.4	1	25.4	8.5	2.10±0.20	1.05±0.10	
30.0	5/4	30.0	10.2	2.20±0.20	1.05±0.10	
38.1	1-1/2	38.1	13.5	2.40±0.20	1.15±0.10	

RS-(3X)GLW ble, Thick Adhesive Lined Wall Heat Shrinkable Tubing

Thick Adhesive Lined Dual Wall Heat Shrinkable Tube is made by co-extrusion of polyolefin and hot-melt adhesive. Designed for both insulation and sealing for protected articles. Used to protect wires and metal tubes against water and moisture.

Features

- Original shrink 8% max
- Thick adhesive lined to protect a wide variety of plastics, wires and metals
- Operating Temperature: 0°C, and shrunk 125°C
- Ratio: 3:1

Technical Data

Property	Test Method	Test Result
Tensile Strength, MPa	ASTM D2671	≥ 10.4
Elongation, %	ASTM D2671	≥ 300
Tensile Strength after aging, MPa	UL 224, 158°CX168h	≥ 7.3
Elongation after aging, %	UL 224, 158°CX168h	≥ 20
Dielectric strength (kV/mm)	IEC 243	≥ 15
Volume resistance Ω . cm	IEC 93	≥ 1X10 ¹⁴

Hot melt adhesive

Property	Test Method	Test Result
Water absorption	ASTM D570	≤ 0.2%
Softening point	ASTM E28	95°C
Peel strength (PE)	ASTMD 1000	120N/25mm
Peel strength (PA)	ASTMD 1000	80N/25mm



Dimensions

SIZE	AS SUPPLIED		AFTER RECOVERY (MM)	
	INTERNAL DIAMETER (MM)	INTERNAL DIAMETER	TOTAL WALL THICKNESS	WALL THICKNESS OF ADHESIVE LAYER
4.5	≥5.0	≤3.2	1.20±0.2	0.3±0.1
6.0	≥6.5	≤4.5	1.20±0.2	0.3±0.1
8.0	≥8.5	≤6.1	1.20±0.2	0.3±0.1
11.0	≥11.5	≤7.1	1.30±0.2	0.3±0.1
13.0	≥13.0	≤9.8	1.30±0.2	0.3±0.1
15.0	≥15.0	≤11.5	1.30±0.2	0.3±0.1

ES Heat-shrinkable Tubing Automotive Oil-pipe Protection

Heat-shrinkable Tubing is specifically designed for Oil-pipe Protection, providing preventive protection to brake line, hydraulic line and other metal pipeline which is subject to bending or during manufacturing, installation or operation.

Features

- Hard outer layer for mechanical damage prevention
- The inner layer, sealing against
- Heat and prevent corrosion
- During installation, the adhesive layer
- Can be separated from pipeline
- Working temperature: 105°C
- Storage temperature: 120°C



Technical Data

Property	Test Method	Test Result
Tensile Strength (Mpa)	ASTM D2671	≥12
Elongation%	ASTM D2671	≥300
Tensile Strength after Aging (Mpa)	UL 224 158×168hr	≥7.3
Longitudinal change (%)	ASTM D2671	10 max
Brittleness temperature	ASTM D746	No crack at -35°C

Medium & Heavy Wall Products

Medium Wall and Heavy Wall heat shrinkable tubing possesses excellent insulation, environmental sealing, and impact and abrasion resistance.

Medium Wall & Heavy Wall tubing is used in a variety of general purpose applications to seal and protect electrical connections and terminations and provide excellent mechanical protection.

Our line of specially designed medium & heavy wall products are used as the industry standard in several markets including electricity and Mass Transportation.



Dimensions

SIZE	AS SUPPLIED		AFTER RECOVERY (MM)		
	INTERNAL DIAMETER (MM)	INTERNAL DIAMETER	OUT LAYER WALL THICKNESS	ADHESIVE LAYER WALL THICKNESS	TOTAL THICKNESS
10.2/3.0	> 10.2	< 3.0	1.4±0.20	0.35±0.10	1.75±
16/5.0	> 16	< 5.0	1.5±0.20	0.40±0.10	1.90±
19.1/5.6	> 19.1	< 5.6	2.0±0.20	0.45±0.10	2.45±
25/8	> 25	< 8	2.0±0.20	0.45±0.10	2.45±
28/6	> 28	< 6	2.5±0.20	0.55±0.10	3.10±
28/9	> 28	< 9	2.0±0.20	0.50±0.10	2.60±
35/10.2	> 35	< 10.2	2.2±0.20	0.50±0.10	2.70±
38.1/12	> 38.1	< 12	2.2±0.20	0.50±0.10	2.70±
43.2/12.7	> 43.2	< 12.7	2.2±0.20	0.50±0.10	2.70±
52.1/16	> 52.1	< 16	2.3±0.25	0.50±0.15	2.80±
63/19	> 63	< 19	2.5±0.25	0.50±0.15	3.00±
75/22	> 75	< 22	2.6±0.25	0.50±0.15	3.00±
58/25	> 85	< 25	2.8±0.30	0.50±0.15	3.30±
95/29	> 95	< 29	3.1±0.30	0.60±0.20	3.70±
115/34	> 115	< 34	3.1±0.30	0.60±0.20	3.70±
140/42	> 140	< 42	3.1±0.30	0.60±0.20	3.70±

ASTM

m Wall Adhesive Lined

Shrinkable Tubing

All heat shrinkable tubing suitable of low voltage electrical and application, where lighter weight flexibility are important

res

and protects cable splices terminations

resistance to impact and

thermoplastic adhesive

complete environmental

protection and insulation

continuous Operating

temperature: -45 °C to 125 °C

temperature: 125 °C



Technical Data

Property	Test Method	Standard
Tensile Strength (Mpa)	ASTM D2671	≥10.4
Elongation (%)	ASTM D2671	≥300
Density (g/cm ³)	ASTM D792	1.2
Longitudinal change (%)	UL 224	≤±10
Elongation after aging (%)	UL224 168°CX168hrs	≥200
Heat shock	UL224 225°CX4hrs	No cracking
Dielectric strength (kv/mm)	IEC 243	≥20
Volume resistivity (Ω.cm)	IEC 93	≥1X10 ¹⁴
Water absorption (%)	ASTM-D570	≤0.5

Hot Melt Adhesive Property

Property	Test Method	Standard
Water Absorption	ASTM D570	≤0.2%
Softening Point	ASTM E28	95 °C

Dimensions

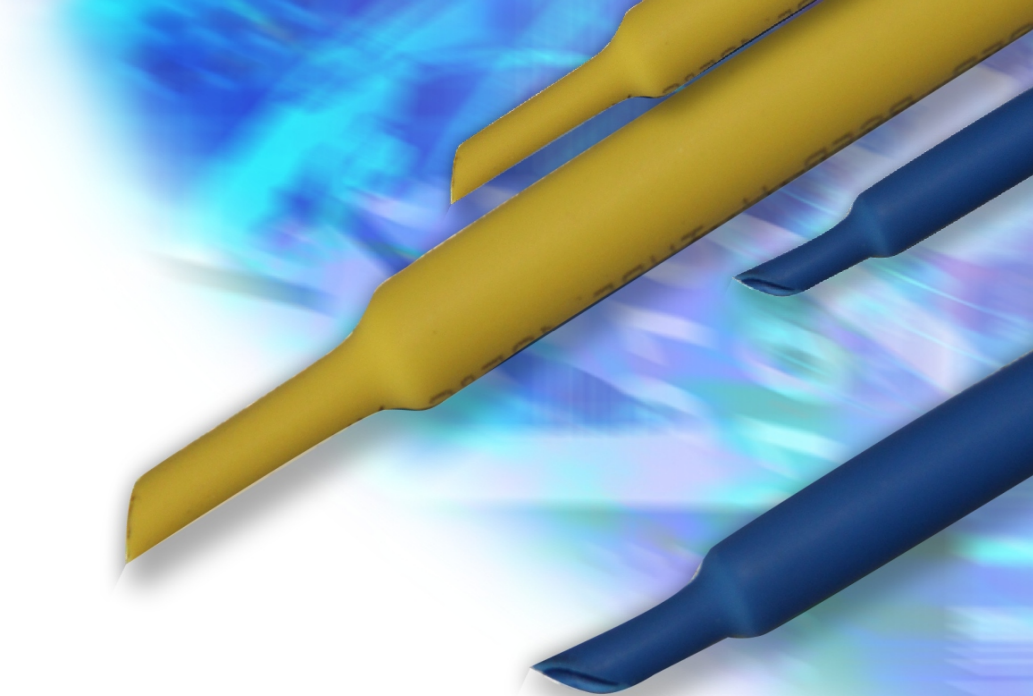
SIZE	AS SUPPLIED		AFTER RECOVERY (MM)		
	INTERNAL DIAMETER (MM)	INTERNAL DIAMETER	OUT LAYER WALL THICKNESS	ADHESIVE LAYER WALL THICKNESS	TOTAL THICKNESS
9/8	> 9	< 3	2.0±0.20	0.35±0.10	2.30 ±
13/4	> 13	< 4	2.4±0.20	0.35±0.10	2.75 ±
20/6	> 20	< 6	2.5±0.20	0.40±0.10	2.90 ±
28/9	> 28	< 9	2.5±0.20	0.40±0.10	2.90 ±
33/10.2	> 33	< 10.2	3.2±0.25	0.40±0.10	3.60 ±
38.1/12	> 38.1	< 12	3.4±0.20	0.60±0.15	4.00 ±
43.2/12.7	> 43.2	< 12	4.3±0.20	0.70±0.35	5.00 ±
51/16	> 51	< 16	4.3±0.20	0.70±0.35	5.00 ±
70/21	> 70	< 21	4.3±0.20	0.70±0.35	5.00 ±
85/25	> 85	< 25	4.3±0.20	0.70±0.35	5.00 ±
105/30	> 105	< 30	4.3±0.20	0.80±0.35	5.10 ±
120/39	> 120	< 39	4.3±0.20	0.50±0.35	5.10 ±
140/42	> 140	< 42	4.3±0.20	0.50±0.35	5.10 ±

SW Wall Adhesive Lined Shrinkable Tubing

Heat shrinkable tubing provides reliability for insulation and cable joints and terminations

Features

- Resists severe mechanical stresses
- Rated for 600V, 90°C
- Easy to use
- Thermoplastic adhesive
- Complete environmental protection and insulation
- Wide operating temperature range: -45°C to 125°C
- Operating temperature: 125°C



Technical Data

Property	Test Method	Standard
Tensile Strength (Mpa)	ASTM D2671	≥ 10.4
Elongation (%)	ASTM D2671	≥ 300
Density (g/cm³)	ASTM D792	1.2
Longitudinal change (%)	UL 224	≤ ±10
Elongation after aging (%)	UL224 158°CX168hrs	≥ 200
Heat shock	UL224 225°CX4hrs	No cracking
Dielectric strength (kv/mm)	IEC 243	≥ 20
Volume resistivity (Ω.cm)	IEC 93	≥ 1X10 ¹⁴
Water absorption (%)	ASTM-D570	≤ 0.5

Hot Melt Adhesive Property

Property	Test Method	Standard
Water Absorption	ASTM D570	≤ 0.2%
Softening Point	ASTM E28	95°C
Peel Strength (PE)	ASTM D 1000	120N/25mm

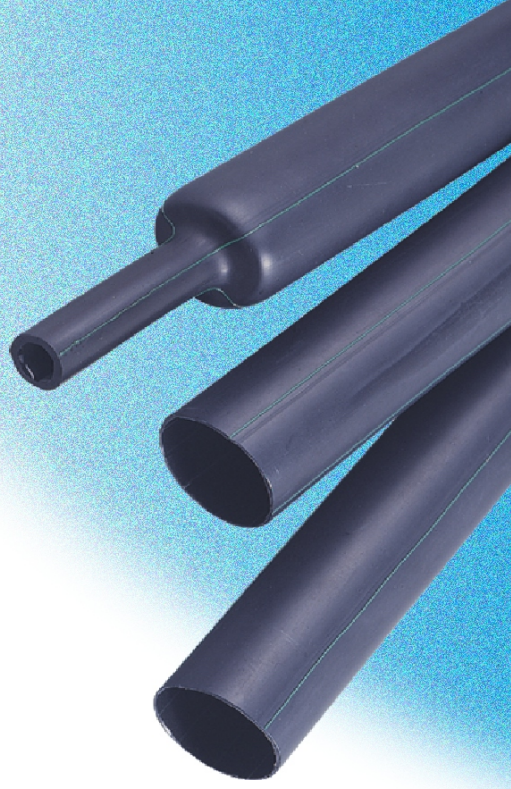
RSTV

mm Wall Adhesive-lined Variable Heat Shrink Tubing

able tubing and adhesive liner combination
shed the CATV industry
r splice and connector protection

ures

lutely waterproof seal
e strippability to meet
ustry specifications
heat required to
error-free installation
splitting)
chromatic paint ensures
of seal
ous Operating
ature: -45°C to 125°C
emperature :125°C



Dimensions

SIZE	AS SUPPLIED		AFTER RECOVERY (MM)		
	INTERNAL DIAMETER (MM)	INTERNAL DIAMETER	OUT LAYER WALL THICKNESS	ADHESIVE LAYER WALL THICKNESS	TOTAL WALL THICKNESS
0400(0.2β.8)	10.2	3.8	2.0±0.20	0.40±0.10	2.40±0.25
0750(0.05.6)	19	5.6	2.0±0.20	0.45±0.10	2.65±0.25
1100(0.7.0.2)	27.9	10.2	2.5±0.20	0.5±0.15	3.00±0.25
1300(0.3.0/0.2)	33	10.2	2.6±0.20	0.5±0.15	3.10±0.25
1500(0.8.1/0.2.7)	38.1	12.7	2.7±0.20	0.5±0.15	3.20±0.30
1700(0.3.2/0.2.7)	43.2	12.7	2.7±0.20	0.5±0.15	3.20±0.25
2050(0.2.1/0.0.0)	52.1	19.0	2.8±0.20	0.5±0.15	3.30±0.25
2750(0.9.8/0.5.4)	69.8	25.4	2.8±0.20	0.6±0.15	3.40±0.25

Technical Data

Property	Test Method	Standard
Tensile Strength(Mpa)	ASTM D2671	≥12
Elongation(%)	ASTM D2671	≥300
Density(g/cm ³)	ASTM D792	1.2
Longitudinal change(%)	UL 224	≤±10
Elongation after aging(%)	UL224 158°CX168hrs	≥200
Heat shock	UL224 225°CX4hrs	No cracking
Dielectric strength(kv/mm)	IEC 243	≥20
Volume resistivity(Ω.cm)	IEC 93	≥1X10 ¹⁴
Water absorption(%)	ASTM-D570	≤0.5

Hot Melt Adhesive Property

Property	Test Method	Standard
Water Absorption	ASTM D570	≤0.2%
Softening Point	ASTM E28	95°C
Peel Strength(PE)	ASTM D 1000	120N/25mm
Peel Strength(AL)	ASTM D 1000	80N/25mm

Non Polyolefin Products

Woer provides special materials for demanding applications.

These products, made of materials ranging from elastomers to fluoropolymers, offer increased protection against extreme temperatures and harsh operating environments.



75

High temperature Chemical resistant PVDF tubing (Kynar® tube)

Thin wall Kynar®* heat shrink for electronic, automotive and applications requiring protection through inspection



Dimensions

SIZE		AS SUPPLIED		AFTER RECOVERY		STANDARD P
Inch	mm	INTERNAL DIAMETER mm	INTERNAL DIAMETER mm	INTERNAL DIAMETER mm	WALL THICKNESS mm	SPOOL LENGTH M/spool
3/64	1.2	1.2	1.2	0.6	0.25±0.05	200
1/16	1.6	1.6	1.6	0.8	0.25±0.05	200
3/32	2.4	2.4	2.4	1.2	0.25±0.05	200
1/8	3.2	3.2	3.2	1.6	0.25±0.05	100
3/16	4.8	4.8	4.8	2.4	0.25±0.05	100
1/4	6.4	6.4	6.4	3.2	0.30±0.05	100
3/8	9.5	9.5	9.5	4.8	0.30±0.05	50
1/2	12.7	12.7	12.7	6.4	0.30±0.05	50
3/4	19.1	19.1	19.1	9.5	0.42±0.05	50
1	25.4	25.4	25.4	12.7	0.50±0.05	50
1-1/2	38.1	38.1	38.1	19.1	0.50±0.05	50

Technical Data

Item	Test Method	Unit	Specification
Min. shrink temperature	-	°C	155
Operation temperature	-	°C	-55*1
Specific Gravity	ASTM D792	g/cm ³	1.78
Tensile strength	ASTM D2671	MPa	≥25
Elongation at break	ASTM D2671	%	≥550
After Aging Elongation	250°C, 168h	%	≥500
Heat Shock	300°C, 4h	-	-No Cr
Cold Bend	-55°C, 4h	-	-No Cr
Volume Resistivity	ASTM D257	Ω.cm	≥10
Flammability Rating	UL-224	VW-1	Pass ⁴

Dimension

SIZE		AS SUPPLIED		AFTER RECOVERY	
Inch	mm	INTERNAL DIAMETER MIN(mm)	INTERNAL DIAMETER MAX mm	WALL THICKNESS NOM mm	
1/8	3.2	3.2	1.6	0.76±0.15	
3/16	4.8	4.8	2.4	0.84±0.15	
1/4	6.4	6.4	3.2	0.89±0.15	
3/8	9.5	9.5	4.8	1.02±0.20	
1/2	12.7	12.7	6.4	1.22±0.20	
3/4	19.0	19.0	9.5	1.45±0.28	
1	25.4	25.4	12.7	1.78±0.28	
1-1/2	38.0	38.0	19.0	2.41±0.41	
2	51.0	51.0	25.4	2.79±0.41	
3	76.0	76.0	38.0	3.18±0.50	

ER-DR

Heat Resistant High Temperature Resistant Heat Shrink Tubing

Features

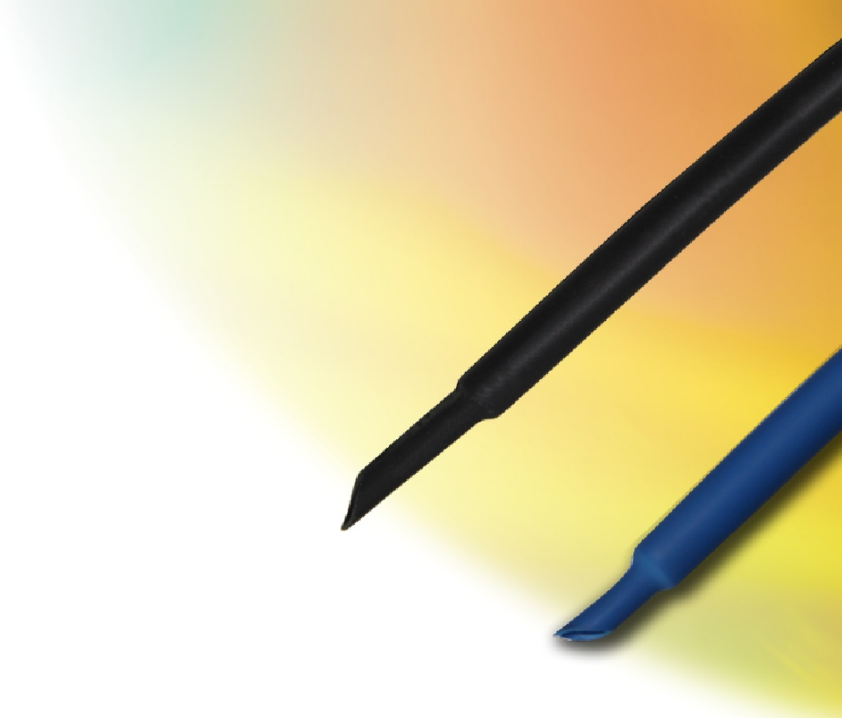
Formulated for optimum high temperature fluid resistance, and long term resistance. Resistant to gasoline and diesel fuels, hydraulic and lubricating oils. It is particularly suitable as a jacketing for military ground vehicle and harnesses. It is also ideally suited for the demands of motorsports and harnesses.

Operating temperature: -75°C to 150°C;
Storage temperature: 150°C

MS-DTL-23053/16

Technical Data

Item	Test Method	Typical Value
Tensile strength (MPa)	ASTM D638	≥12
Elongation (%)	ASTM D638	≥400
Heat ageing tensile strength aged (MPa)	ISO188 (160° C/168h)	≥8
Heat ageing elongation aged (%)	ISO188 (160° C/168h)	≥220
Fluid resistance tensile strength (MPa)	ISO37 24 hrs. (diesel 70°C, hydraulic 70°C, lubricant 100°C)	≥8
Fluid resistance elongation (%)	ISO37 24 hrs. (diesel 70°C, hydraulic 70°C, lubricant 100°C)	≥300
Shrink ratio in axial direction (%)	UL 224	±10
Heat shock	4hrs/215°C	No crack and discoloration
Flammability	UL 224, VW-1	pass
Dielectric strength (KV/mm)	IEC 243	≥15



00

Fluororubber heat shrink tubing

temperature resistant, oil resistant)

Formula: High temperature resistant, oil resistant heat shrink tubing is

special designed fluororubber which was cross-linked by

scientific formula. it has excellent performance of high and

temperature resistance oil resistance and chemical resistance

suit for the situation which need oil-resistance (such as

engine of automobile, the electrical system and hydraulic

for the oil tank) and chemical solvent resistance. aim to provide

protection for the cable bundle and remove the stress, in order

to protect electric equipment from outside damage.

Features

It will not crack in the

temperature range of -55°C -200°C

temperature : 175°C

operation temperature: -55°C -200°C

Ratio: 2:1

Registered trademark of Dupont de

Co., Inc

Dimensions

SIZE		AS SUPPLIED		AFTER RECOVERY (MM)		STANDARD
Inch	mm	INTERNAL DIAMETER	INTERNAL DIAMETER	INTERNAL DIAMETER	WALL THICKNESS	SPOOL LENGTH (M/spool)
1/8	3.2	3.2	1.6	0.76	50	50
3/16	4.8	4.8	2.4	0.89	50	50
1/4	6.4	6.4	3.2	0.89	50	50
3/8	9.5	9.5	4.8	0.89	50	50
1/2	12.7	12.7	6.4	0.89	50	50
3/4	19.1	19.1	9.5	1.07	30	30
1	25.4	25.4	12.7	1.25	30	30
1-1/2	38.1	38.1	19.1	1.4	15	15
2	50.8	50.8	25.4	1.65	10	10

Technical Data

Property	Test Method	Standard
Tensile strength (Mpa)	ASTM D 638	> 10
Breaking elongation (%)	ASTM D 638	> 300
Operation temperature range (°C)	IEC 216	-55 - 200
Heat aging / Breaking elongation (%)	168hrs / 250°C	> 250
Heat shock	4hrs / 330°C	No cracking
Dielectric strength (KV/mm)	ASTM D 2671	> 9
Volume resistivity (Ω . cm)	ASTM D 876	1X10 ⁹



Teflon tubing

Designed for protecting
wires in extreme electrical
and thermal environments

Wires

Electrically inert
High temperature resistance
Wide operating
temperature range: -80°C to 200°C
High dielectric strength
High resistance (acid/alkali
resistance, chemical reagents oil-proof)
High pressure resistance

Standard: UL224 VW-1C-UL CSA22.20FT

Part number: E203950



Dimensions

AWG	I.D. (mm)	O.D. (mm)(S)	O.D. (mm)(T)	O.D. (mm)(L)
30	0.30±0.10	0.80±0.10	0.70±0.10	0.60±0.10
28	0.38±0.10	0.88±0.10	0.78±0.10	0.68±0.10
26	0.46±0.10	0.96±0.10	0.86±0.10	0.76±0.10
24	0.56±0.10	1.16±0.10	1.06±0.10	0.86±0.10
23	0.66±0.10	1.26±0.10	1.16±0.10	0.96±0.10
22	0.71±0.10	1.31±0.10	1.21±0.10	1.01±0.10
21	0.81±0.10	1.41±0.10	1.31±0.10	1.11±0.10
20	0.86±0.10	1.66±0.10	1.46±0.10	1.16±0.10
19	0.96±0.20	1.76±0.20	1.56±0.20	1.26±0.20
18	1.07±0.20	1.87±0.20	1.67±0.20	1.37±0.20
17	1.19±0.20	1.99±0.20	1.79±0.20	1.49±0.20
16	1.34±0.20	2.14±0.20	1.94±0.20	1.64±0.20
15	1.50±0.20	2.30±0.20	2.10±0.20	1.80±0.20
14	1.68±0.20	2.48±0.20	2.28±0.20	2.08±0.20
13	1.93±0.20	2.73±0.20	2.53±0.20	2.33±0.20
12	2.16±0.25	2.96±0.25	2.76±0.25	2.56±0.25
11	2.41±0.25	3.21±0.25	3.01±0.25	2.81±0.25
10	2.26±0.25	3.49±0.25	3.29±0.25	3.09±0.25
9	3.00±0.25	4.00±0.25	3.80±0.25	3.40±0.25
8	3.38±0.25	4.38±0.25	4.18±0.25	3.78±0.25
7	3.76±0.25	4.76±0.25	4.56±0.25	4.16±0.25
6	4.22±0.25	5.22±0.25	5.02±0.25	4.80±0.25
5	4.72±0.25	5.72±0.25	5.52±0.25	5.32±0.25
4	5.28±0.30	6.28±0.30	6.08±0.30	5.88±0.25
3	5.94±0.30	6.94±0.30	6.74±0.30	6.54±0.25
2	6.68±0.30	7.68±0.30	7.48±0.30	7.28±0.25
1	7.46±0.30	8.46±0.30	8.26±0.30	8.06±0.25
0	8.38±0.30	9.38±0.30	9.18±0.30	8.98±0.25

Technical Data

Property	Standard	Property
Relative density	2.14±2.20	Melting point°C
Tensile strength (Mpa)	≥25	Operating temperature°C
Tensile strength at yield (MPa)	≥11	Oxygen index (%)
Elongation (%)	≥300	Water absorption (%)
Arc resistance	>300	Linear expansion coefficient (×105/°C)21~100°C
Hardness (Shore D)	50~60	Dielectric strength (kv/mm)

Dimensions

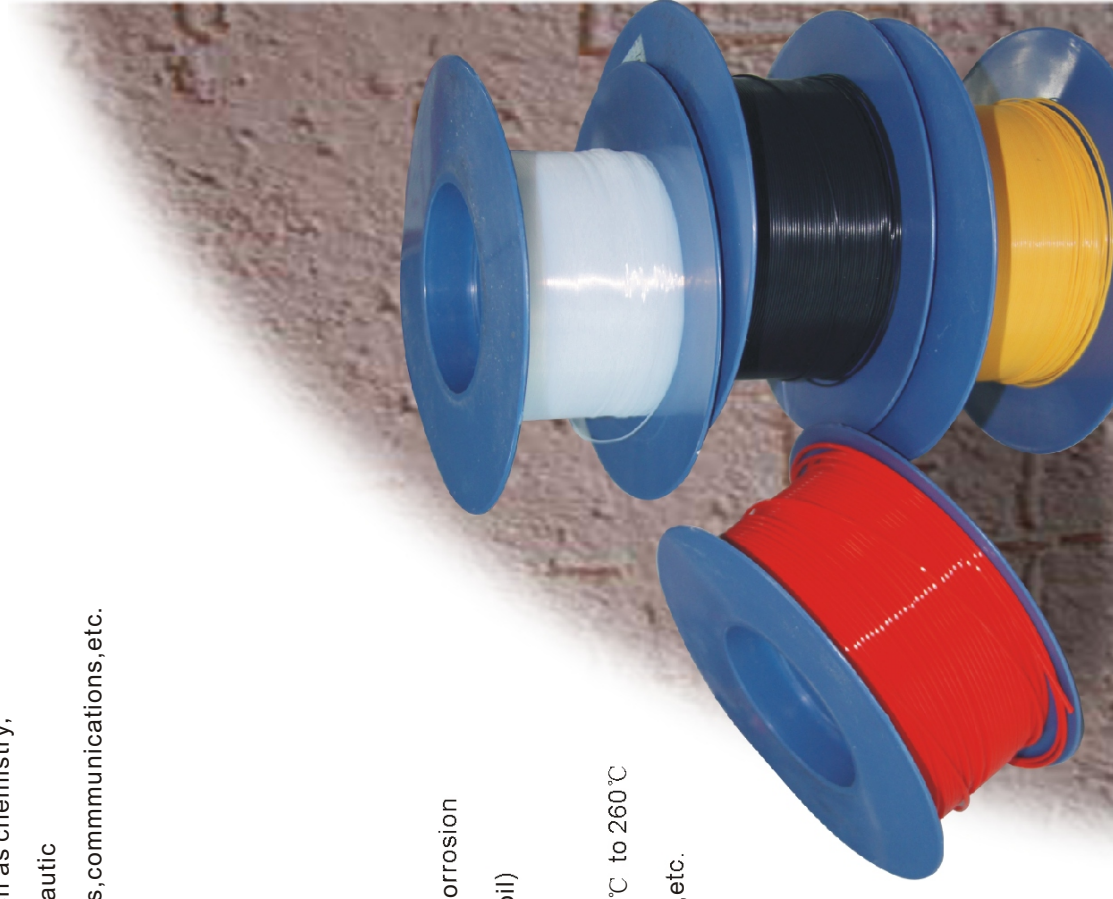
AWG	SIZE		AS SUPPLIED (MM)		AFTER RECOVERY (MM)	
	mm		INTERNAL DIAMETER	WALL THICKNESS	INTERNAL DIAMETER	WALL THICKNESS
30	0.86		≥0.86	≤0.38	≥0.86	≤0.25
28	0.97		≥0.97	≤0.46	≥0.97	≤0.25
26	1.17		≥1.17	≤0.56	≥1.17	≤0.25
24	1.27		≥1.27	≤0.64	≥1.27	≤0.25
22	1.55		≥1.55	≤0.80	≥1.55	≤0.25
20	1.95		≥1.95	≤0.97	≥1.95	≤0.30
18	2.35		≥2.35	≤1.17	≥2.35	≤0.30
16	2.95		≥2.95	≤1.45	≥2.95	≤0.35
14	3.65		≥3.65	≤1.82	≥3.65	≤0.35
12	4.55		≥4.55	≤2.26	≥4.55	≤0.38
10	5.65		≥5.65	≤2.80	≥5.65	≤0.40
8	7.05		≥7.05	≤3.55	≥7.05	≤0.40
6	8.75		≥8.75	≤4.40	≥8.75	≤0.40
4	10.95		≥10.95	≤5.45	≥10.95	≤0.40
2	13.75		≥13.75	≤6.90	≥13.75	≤0.40
0	17.15		≥17.15	≤8.56	≥17.15	≤0.40

PTFE : shrinkable Teflon Tubing

shrinkable Teflon Tube can be widely used in technology field, such as chemistry, industries, astronautic vehicles, transformers, communications, etc.

Features

- Excellent performance for anti-corrosion
- Resistant to alkali/chemical/oil
- High temperature resistant
- Working Temperature: -80°C to 260°C
- Available color: Clear, black, etc.
- Shrinkage ratio: 1.7:1, shrink
- Maximum temperature: >300°C



Technical data

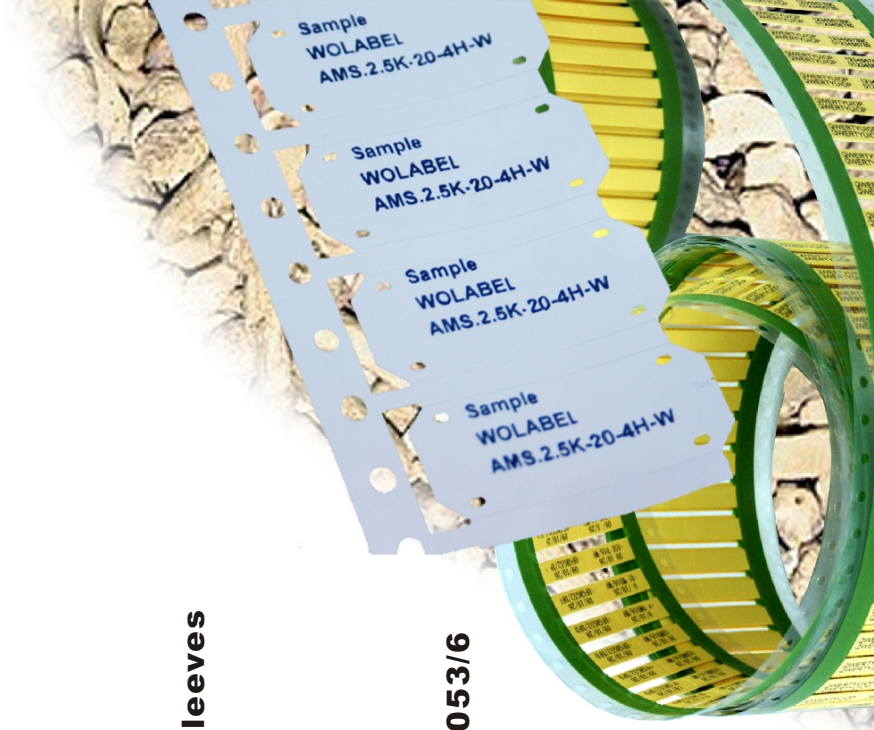
Property	Test	Test
Tensile strength/Mpa	IEC 811-1-1	
Elongation at break%	IEC 811-1-1	
Axial shrinkage rate	ASTM D 2671	±1
Secant factor/Mpa	ASTM D 2671	75
Anti-aging at high temperature (300°C, 168h)	IEC811-1-2	NO Cra
Adaptability at low temperature	ASTM D 2671	Minus
Insulation force	VDE 0303 Part 2	
Volume resistance Ω.cm	VDE 0303 Part 3	
Corrosion resistance	ASTM D 2671	No
Chemical resistance	ASTM D 2671	No
Chemical resistance		
Corrosion resistance	VDE 0472	

Identification Products

Wire & Cable

Comprehensive line of heat shrinkable sleeves, labels, tie-on cable sleeves, and identification products that meet a broad range of needs including UL, CSA and MIL-STD-883C Class B requirements, for a variety of Applications. WOER's identification products include:

- Heat shrinkable marking sleeves for wire and cable identification.
- Made from permanent, flame retarded, radiation resistant heat shrinkable polyolefin. This Identification sleeves are legible immediately after printing and remain legible even when subjected to abrasion, aggressive cleaning solvents.



MIL-ITARY
Free identification sleeves
-M, HMS-M
Resistance at high temperature, identification
DTL-23053/5, DTL-23053/6

Sleeves
 Identification sleeves
 Laser printable
 3:1 shrink ratio
 UL Recognized
 Cover for heat

Dimensions

TABLE 1 SIZES FOR 2X NORMAL WALL

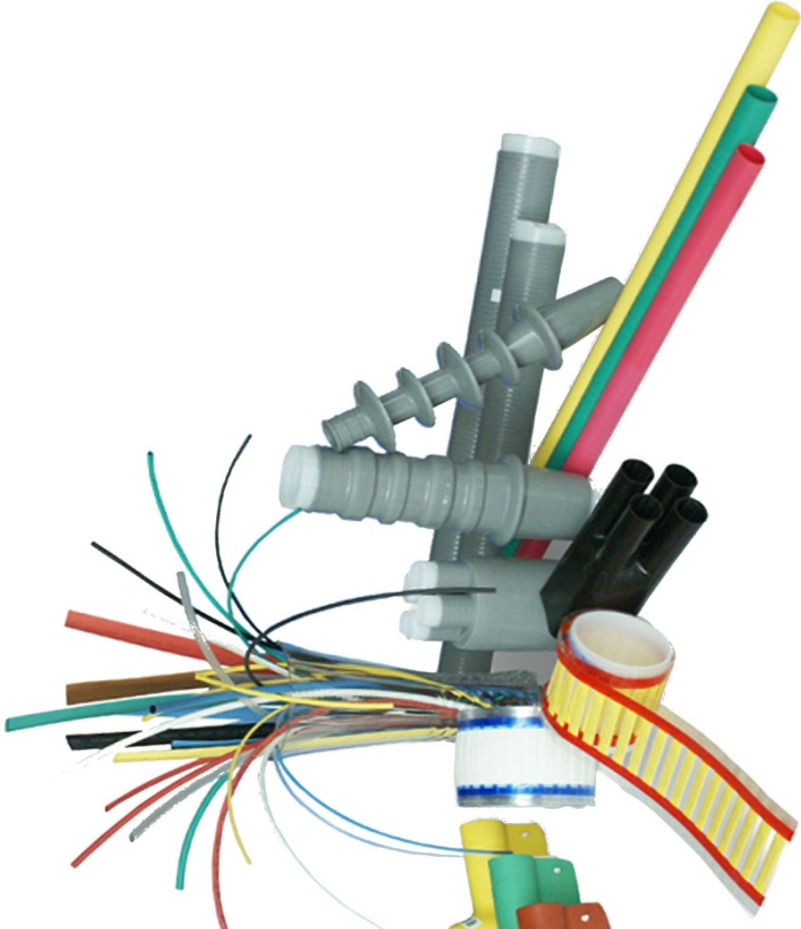
Part Number	Expanded As Supplied (mm)				AF Inside Diameter
	Inside Diameter, ID	Flat Width, W2	Double Wall Thickness	AF Inside Diameter	
HMS (AMS/D IN) – (H/M/CB) – 2X-1.6-#M-*	2.00±0.20	3.7±0.3	0.48±0.10	≤0.7	
HMS (AMS/D IN) – (H/M/CB) – 2X-2.4-#M-*	2.79±0.20	5.0±0.3	0.48±0.10	≤1.1	
HMS (AMS/D IN) – (H/M/CB) – 2X-3.2-#M-*	3.64±0.23	6.3±0.4	0.48±0.10	≤1.5	
HMS (AMS/D IN) – (H/M/CB) – 2X-4.8-#M-*	5.26±0.25	8.9±0.4	0.49±0.10	≤2.2	
HMS (AMS/D IN) – (H/M/CB) – 2X-6.4-#M-*	6.92±0.28	11.5±0.4	0.50±0.10	≤3.3	
HMS (AMS/D IN) – (H/M/CB) – 2X-9.5-#M-*	10.2±0.32	16.7±0.5	0.51±0.11	≤4.4	
HMS (AMS/D IN) – (H/M/CB) – 2X-12.7-#M-*	13.5±0.36	21.8±0.6	0.52±0.11	≤6.6	
HMS (AMS/D IN) – (H/M/CB) – 2X-19-#M-*	20.1±0.40	32.2±0.6	0.53±0.11	≤9.5	
HMS (AMS/D IN) – (H/M/CB) – 2X-25-#M-*	26.7±0.45	42.5±0.7	0.55±0.12	≤12.2	
HMS (AMS/D IN) – (H/M/CB) – 2X-38-#M-*	39.8±0.51	63.2±0.8	0.57±0.12	≤19.1	
HMS (AMS/D IN) – (H/M/CB) – 2X-51-#M-*	53.0±0.56	83.9±0.9	0.59±0.13	≤25.2	
HMS (AMS/D IN) – (H/M/CB) – 2X-76-#M-*	79.4±0.56	125.3±1.0	0.59±0.13	≤38.1	

TABLE 2 SIZES FOR 3X NORMAL WALL

Part Number	Expanded As Supplied (mm)				AF Inside Diameter
	Inside Diameter, ID	Flat Width, W2	Double Wall Thickness	AF Inside Diameter	
HMS (AMS/D IN) – (H/M/CB) – 3X-1.6-#M-*	2.00±0.20	3.7±0.3	0.47±0.10	≤0.7	
HMS (AMS/D IN) – (H/M/CB) – 3X-2.4-#M-*	2.79±0.20	5.0±0.3	0.47±0.10	≤1.1	
HMS (AMS/D IN) – (H/M/CB) – 3X-3.2-#M-*	3.64±0.23	6.3±0.4	0.48±0.10	≤1.5	
HMS (AMS/D IN) – (H/M/CB) – 3X-4.8-#M-*	5.26±0.25	8.9±0.4	0.49±0.10	≤2.2	
HMS (AMS/D IN) – (H/M/CB) – 3X-6.4-#M-*	6.92±0.28	11.5±0.4	0.50±0.10	≤3.3	
HMS (AMS/D IN) – (H/M/CB) – 3X-9.5-#M-*	10.2±0.32	16.7±0.5	0.52±0.11	≤4.4	
HMS (AMS/D IN) – (H/M/CB) – 3X-12.7-#M-*	13.5±0.36	21.8±0.6	0.53±0.11	≤6.6	
HMS (AMS/D IN) – (H/M/CB) – 3X-19-#M-*	20.1±0.40	32.2±0.6	0.55±0.11	≤9.5	
HMS (AMS/D IN) – (H/M/CB) – 3X-25-#M-*	26.7±0.45	42.5±0.7	0.56±0.12	≤12.2	
HMS (AMS/D IN) – (H/M/CB) – 3X-38-#M-*	39.8±0.51	63.2±0.8	0.57±0.12	≤19.1	
HMS (AMS/D IN) – (H/M/CB) – 3X-51-#M-*	53.0±0.56	83.9±0.9	0.57±0.13	≤25.2	
HMS (AMS/D IN) – (H/M/CB) – 3X-76-#M-*	79.4±0.56	125.3±1.0	0.57±0.13	≤38.1	

Other Products

Specialty product lines have grown as we continue with its commitment to be a full service and product supplier to key markets.



Dimensions

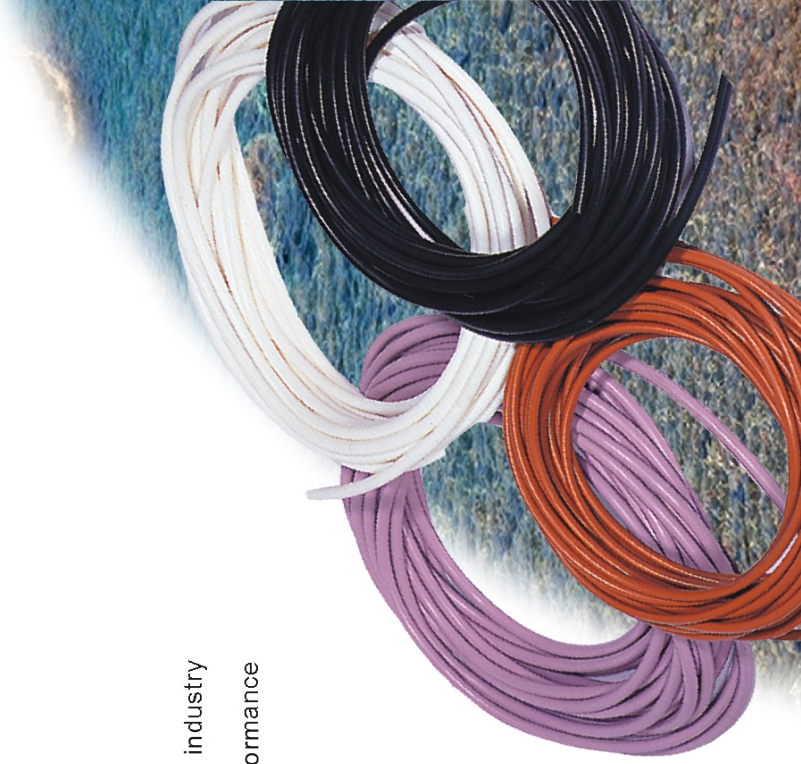
SIZE	INTERNAL DIAMETER	AVERAGE WALL THICKNESS(mm)					STANDARD PACKAGE
		2500V	4000V (mm)	6000V	7000V	(M.Coil)	
0.8	0.8±0.10	0.5 ± 0.10	1.0 ± 0.15	1.5 ± 0.20	2.0 ± 0.25	200	
1.0	1.0±0.10	0.5 ± 0.10	1.0 ± 0.15	1.5 ± 0.20	2.0 ± 0.25	200	
1.5	1.5±0.10	0.5 ± 0.10	1.0 ± 0.15	1.5 ± 0.20	2.0 ± 0.25	200	
2.0	2.0±0.10	0.5 ± 0.10	1.0 ± 0.15	1.5 ± 0.20	2.0 ± 0.25	100	
2.5	2.5±0.10	0.5 ± 0.10	1.0 ± 0.15	1.5 ± 0.20	2.0 ± 0.25	100	
3.0	3.0±0.10	0.5 ± 0.10	1.0 ± 0.15	1.5 ± 0.20	2.0 ± 0.25	100	
3.5	3.5±0.10	0.5 ± 0.10	1.0 ± 0.15	1.5 ± 0.20	2.0 ± 0.25	100	
4.0	4.0±0.10	0.5 ± 0.10	1.0 ± 0.15	1.5 ± 0.20	2.0 ± 0.25	100	
4.5	4.5±0.10	0.5 ± 0.10	1.0 ± 0.15	1.5 ± 0.20	2.0 ± 0.25	100	
5.0	5.0±0.20	0.5 ± 0.10	1.0 ± 0.15	1.5 ± 0.20	2.0 ± 0.25	50	
5.5	5.5±0.20	0.5 ± 0.10	1.0 ± 0.15	1.5 ± 0.20	2.0 ± 0.25	50	
6.0	6.0±0.20	0.5 ± 0.10	1.0 ± 0.15	1.5 ± 0.20	2.0 ± 0.25	50	
6.5	6.5±0.20	0.5 ± 0.10	1.0 ± 0.15	1.5 ± 0.20	2.0 ± 0.25	50	
7.0	7.0±0.20	/	1.0 ± 0.15	1.5 ± 0.20	2.0 ± 0.25	50	
7.5	7.5±0.20	/	1.0 ± 0.15	1.5 ± 0.20	2.0 ± 0.25	50	
8.0	8.0±0.25	/	1.0 ± 0.15	1.5 ± 0.20	2.0 ± 0.25	50	
9.0	9.0±0.25	/	1.0 ± 0.15	1.5 ± 0.20	2.0 ± 0.25	25	
10.0	10.0±0.25	/	1.0 ± 0.15	1.5 ± 0.20	2.0 ± 0.25	50	
11.0	11.0±0.30	/	1.0 ± 0.15	1.5 ± 0.20	2.0 ± 0.25	25	
12.0	12.0±0.30	/	1.0 ± 0.15	1.5 ± 0.20	2.0 ± 0.25	25	
13.0	13.0±0.30	/	1.0 ± 0.15	1.5 ± 0.20	2.0 ± 0.25	50	
14.0	14.0±0.30	/	/	1.5 ± 0.20	2.0 ± 0.25	50	
15.0	15.0±0.30	/	/	1.5 ± 0.20	2.0 ± 0.25	25	
20.0	20.0±0.30	/	/	/	2.0 ± 0.30	10	

T-260 One Rubber Tube

Insulating protection for various household, light fitting, machines, electronic devices, etc.

Features

- Working Temperature: -60 °C ~ 200 °C
- RoHS compliant; UL approved for food industry
- High flexibility and arc resistance performance
- Non-toxic and non-flammable
- Color: White, Grey, Green, Clear
- Color is flame-retardant



Technical data

PROPERTY	TEST METHOD	TEST DATA
Dielectric strength (kV/mm)	IEC 243	≥ 18
Volume resistance (Ω·cm)	IEC 93	≥ 1X10 ¹⁴
Tensile Strength (Mpa)	ASTM D 412	≥ 3.5 Mpa
Elongation (%)	ASTM D 412	≥ 201
Flammability (White color only)	ISO 1210	FV-1

T-HS Shrinkable Silicone Rubber Heat-Shrinkable Tubing

Features

is cable jacketing harness
protection, and strain relief for electronic

components, semiconductor
and wire splices, ideal
applications that require
durability over a wide range
of operating temperatures.

Application

Maximum shrink

Temperature: 100°C

Maximum full recovery

Temperature: 135°C

Operating Temperature

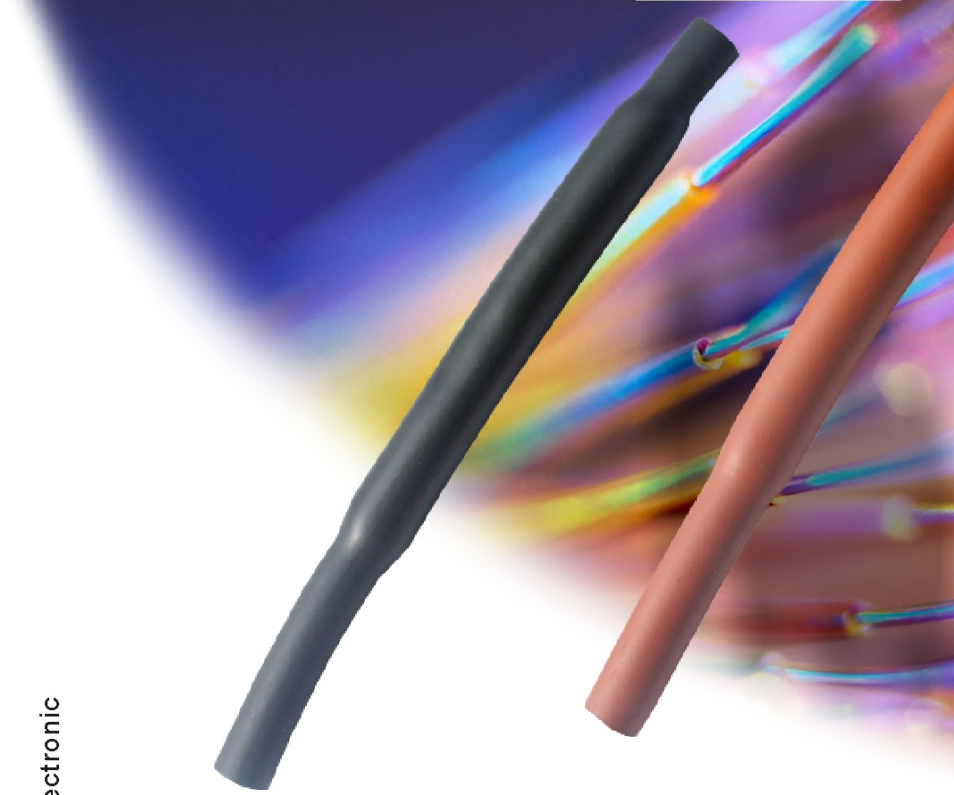
-70°C to 180°C

Dimensions

Size (mm)	Minimum Expanded AS Supplies ID(mm)	Maximum Recovered After Recovery		Packing	App. Range
		ID(mm)	Wall Thickness		
1.5	≥1.5	≤0.9	≥0.6	50	1~
2.0	≥2	≤1.2	≥0.8	50	1.3~
3.0	≥3	≤1.8	≥0.8	50	1.9~
4.0	≥4	≤2.5	≥1.0	50	2.6~
5.0	≥5	≤3.0	≥1.0	50	3.1~
6.0	≥6	≤3.6	≥1.0	50	3.7~
8.0	≥8	≤5.0	≥1.0	20	5.1~
10.0	≥10	≤6.0	≥1.5	20	6.1~
12.0	≥12	≤7.2	≥1.5	20	7.3~
15.0	≥15	≤9.0	≥1.5	2020	9.1~
17.0	≥17	≤10.5	≥1.5	20	11~
20.0	≥20	≤12.5	≥1.5	10×1	13~
25.0	≥25	≤15.0	≥2.0	10×1	16~
30.0	≥30	≤18.5	≥2.0	10×1	19~

Technical data

Property	Test	Test
Tensile strength/Mpa	IEC 811-1-1	
Elongation at break%	IEC 811-1-1	
Axial shrinkage rate	ASTM D 2671	±1
Secant factor/Mpa	ASTM D 2671	75
Anti-aging at hightemperature(300°C, 168h)	IEC811-1-2	NO Cra
Adaptability at lowtemperature	ASTM D 2671	Minus
Insulation force	VDE 0303 Part 2	
Volume resistance Ω.cm	VDE 0303 Part 3	
Corrosion resistance	ASTM D 2671	No
Chemical resistance	ASTM D 2671	No
Chemical resistance		
Corrosion resistance	VDE 0472	



Dimensions (SRG-N)

SIZE (MM)	INTERNAL DIAMETER(MM)	AVERAGE WALL THICKNESS (MM)			STANDARD PACKAGE (M/SPOOL)
		1500V, 2500V	4000V	7000V	
0.5	0.5 ± 0.20	0.20 ± 0.05	0.40 ± 0.05	0.45 ± 0.05	100
1.0	1.0 ± 0.20	0.20 ± 0.05	0.40 ± 0.05	0.45 ± 0.05	100
1.5	1.5 ± 0.20	0.20 ± 0.05	0.40 ± 0.05	0.45 ± 0.05	100
2.0	2.0 ± 0.20	0.20 ± 0.05	0.40 ± 0.05	0.45 ± 0.05	100
2.5	2.5 ± 0.20	0.20 ± 0.05	0.40 ± 0.05	0.50 ± 0.05	100
3.0	3.0 ± 0.25	0.23 ± 0.05	0.40 ± 0.05	0.50 ± 0.05	100
3.5	3.5 ± 0.25	0.23 ± 0.05	0.45 ± 0.05	0.55 ± 0.05	100
4.0	4.0 ± 0.25	0.23 ± 0.05	0.45 ± 0.05	0.55 ± 0.05	100
4.5	4.5 ± 0.25	0.23 ± 0.05	0.45 ± 0.05	0.55 ± 0.05	100
5.0	5.0 ± 0.35	0.30 ± 0.05	0.45 ± 0.05	0.55 ± 0.05	100
6.0	6.0 ± 0.35	0.30 ± 0.05	0.50 ± 0.05	0.60 ± 0.05	100
7.0	7.0 ± 0.50	0.35 ± 0.05	0.50 ± 0.05	0.60 ± 0.05	50
8.0	8.0 ± 0.50	0.35 ± 0.05	0.50 ± 0.05	0.60 ± 0.05	50
9.0	9.0 ± 0.50	0.35 ± 0.05	0.50 ± 0.05	0.60 ± 0.05	50
10.0	10.0 ± 0.70	0.43 ± 0.05	0.60 ± 0.05	0.60 ± 0.05	50
12.0	12.0 ± 0.70	0.43 ± 0.05	0.60 ± 0.05	0.60 ± 0.05	30
13.0	13.0 ± 0.70	0.43 ± 0.05	0.60 ± 0.05	0.60 ± 0.05	30
14.0	14.0 ± 0.70	0.43 ± 0.05	0.60 ± 0.05	0.60 ± 0.05	30
15.0	15.0 ± 0.80	0.43 ± 0.05	0.60 ± 0.05	0.60 ± 0.05	30
16.0	16.0 ± 0.80	0.43 ± 0.05	0.60 ± 0.05	0.60 ± 0.05	30
17.0	17.0 ± 0.80	0.43 ± 0.05	0.60 ± 0.05	0.60 ± 0.05	30
18.0	18.0 ± 0.80	0.43 ± 0.05	0.60 ± 0.05	0.60 ± 0.05	30
19.0	19.0 ± 0.80	0.43 ± 0.05	0.60 ± 0.05	0.60 ± 0.05	30
20.0	20.0 ± 0.80	0.43 ± 0.05	0.60 ± 0.05	0.60 ± 0.05	30

Dimensions (SRG-W)

Size (mm)	INTERNAL DIAMETER(MM)	Average Wall Thickness (mm)			STANDARD PACKAGE (M/SPOOL)
		1500V, 2500V	4000V	7000V	
1.0	1.0 ± 0.15	0.20 ± 0.05	0.40 ± 0.05	0.45 ± 0.05	100
2.0	2.0 ± 0.15	0.20 ± 0.05	0.40 ± 0.05	0.45 ± 0.05	100
3.0	3.0 ± 0.15	0.23 ± 0.05	0.40 ± 0.05	0.50 ± 0.05	100
4.0	4.0 ± 0.15	0.23 ± 0.05	0.45 ± 0.05	0.55 ± 0.05	100
5.0	5.0 ± 0.20	0.30 ± 0.05	0.45 ± 0.05	0.55 ± 0.05	100
6.0	6.0 ± 0.20	0.30 ± 0.05	0.50 ± 0.05	0.60 ± 0.05	100
7.0	7.0 ± 0.20	0.35 ± 0.05	0.50 ± 0.05	0.60 ± 0.05	50
8.0	8.0 ± 0.25	0.35 ± 0.05	0.50 ± 0.05	0.60 ± 0.05	50
9.0	9.0 ± 0.25	0.35 ± 0.05	0.50 ± 0.05	0.60 ± 0.05	50
10.0	10.0 ± 0.25	0.43 ± 0.05	0.60 ± 0.05	0.60 ± 0.05	50

Technical Data

Property	Test Method	Standard Required
Dielectric strength (kV/mm)	IEC 243	≥18
Volume resistance (Ω · Cm)	IEC 93	≥1X10 ¹⁴
Tensile Strength (Mpa)	ASTM D412	≥4 Mpa
Elongation (%)	ASTM D412	≥201

SRG-W & SRG-N One Rubber Braided Tube

Insulating protection for various household appliances, light fitting, machines, electronic devices, etc.



Features

- Inner fiberglass outside
- Silicone rubber (SRG-N) or neoprene rubber outside fiberglass (SRG-W)
- Working Temperature: -60°C ~ 200°C
- Flexible and compliant; UL approved
- Excellent chemical resistance, arc resistance, corona-resistant
- Available in various colors (Standard Color: White, other colors upon request)

Dimensions

SIZE	AS SUPPLIED(MM)		AFTER RECOVERY		STANDARD PACKAGE (M/PCS)
	INTERNAL DIAMETER(MM)	AVERAGE THICKNESS	MAX INTERNAL DIAMETER(MM)	AVERAGE THICKNESS	
15	≥15	0.45±0.15	8	0.85±0.15	1.0
20	≥20	0.50±0.15	11	0.90±0.15	0.8/1.0/1.6
22	≥22	0.50±0.15	12.5	0.90±0.15	0.8/1.0/1.6
25	≥25	0.50±0.15	14.5	1.00±0.15	0.8/1.0/1.6
28	≥28	0.50±0.15	15.5	1.00±0.15	0.8/1.0/1.6
30	≥30	0.60±0.15	17.5	1.20±0.15	0.8/1.0/1.6
35	≥35	0.60±0.15	20	1.20±0.15	0.8/1.0/1.6
40	≥40	0.60±0.15	23	1.20±0.15	0.8/1.0/1.6
45	≥45	0.65±0.15	25	1.25±0.15	0.8/1.0/1.6
50	≥50	0.65±0.15	28	1.25±0.15	0.8/1.0/1.6

Heat Shrink Tubing

Heat shrink tubing is a material, excellent application for various electrical wires, sport fittings, and equipments and can be used with hand device.

Features

Working Temperature: -55°C~105°C

Starting Temperature: Started at 70°C, Shrinkage is very at 110°C

Soft and compliant;

High flexibility, abrasion

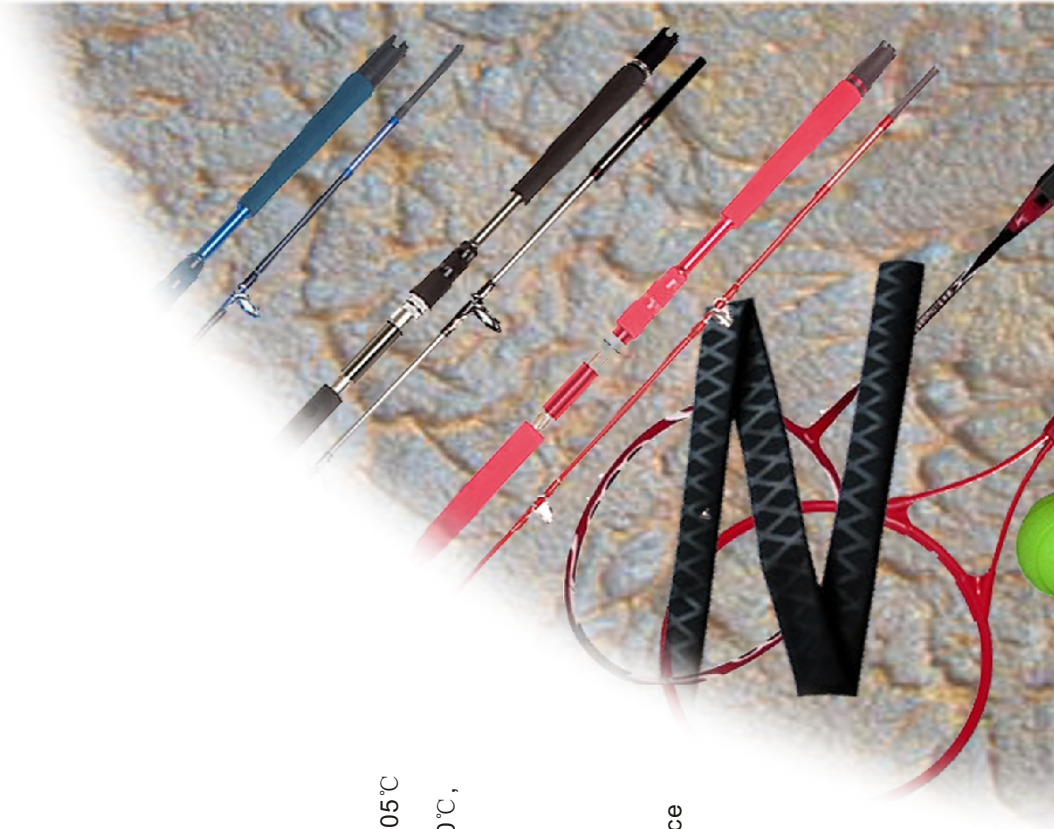
resistance and anti-skid performance

Available Color: Black, Red,

White, Green, Blue

Technical Data

Property	Test Method	Standard Required
Longitudinal Elongation (%)	ASTM D412	≤8
Tensile Strength (Mpa)	ASTM D412	10.4
Elongation (%)	ISO 1210	200



Dimensions

Size (mm)	Compos. Nx/mm	Diameter (mm)	Max. Diameter (mm)	Standard (m/r)
3	1/0.25	3.0	5.0	100
	1/0.25	4.0	6.0	100
4	1/0.25	5.0	7.0	100
	1/0.25	6.0	8.0	100
6	3/0.20	6.0	8.0	800
	1/0.25	7.0	9.0	800
7	3/0.20	7.0-8.0	10.0	500
	1/0.25	8.0	10.0	500
8	3/0.20	8.0	10.0	500
	1/0.25	9.0	11.0	500
9	3/0.20	9.0	11.0	500
	1/0.25	10.0	12.0	500
10	3/0.20	10.0	12.0	500
	3/0.20	12.0	14.0	500
12	3/0.25	12.0	14.0	500
	3/0.20	14.0	16.0	500
14	3/0.25	14.0	16.0	500
	3/0.20	16.0	18.0	500
16	3/0.25	16.0	18.0	500
	3/0.20	18.0	20.0	400
18	3/0.25	18.0	20.0	400
	3/0.20	20.0	22.0	400
20	3/0.25	20.0	22.0	400
	3/0.20	22.0	24.0	400
22	3/0.25	22.0	24.0	400
	3/0.20	24.0	26.0	400
24	3/0.25	24.0	26.0	400

Technical Data

Property	Test Method	Standard
Operating temperature	ICE 216	Insulated breakout -55°C~100°C
Tensile strength	ASTM D 2671	≥13MPa
Elongation	ASTM	≥300%
Tensile strength after thermal aging	ASTM	≥11MPa
Elongation after thermal aging	120°C/168hrs	≥230%
Water absorption	ASTM D 2671	≤0.1%
Volume resistivity	120°C/168hrs	≥1×10 ¹⁴ Ω□cm
Oil resistance	ISO 62	-----
(Tensile strength after dipping)	ICE 93	-----
Oil resistance	ASTM D 2671	-----
(Elongation at break after dipping)	70# cable oil/168hrs	-----
Dielectric strength	ICE243	≥20kv/mm



Standard Sleeve

nylene terephthalate) material, application for various bundle wires, pipes and hoses protection, etc

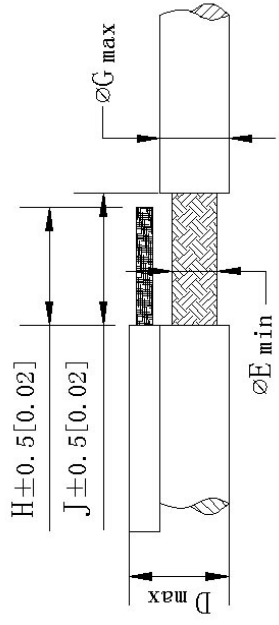
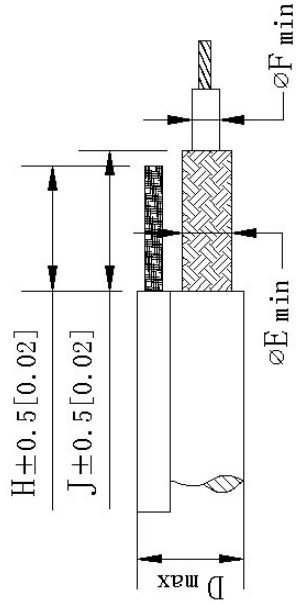
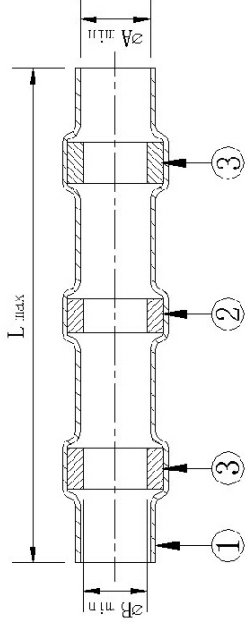
Colors

flexibility, convenient installation
Standard Color: Black, Red, White, Green, Purple, etc.
Other colors available upon request.

Dimensions

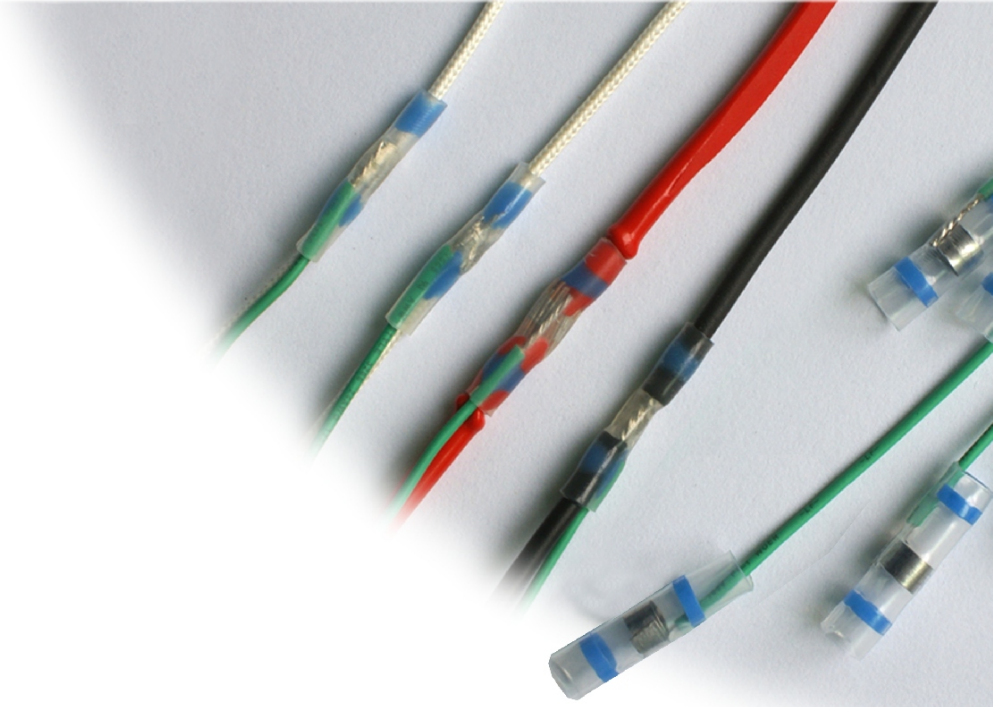
SIZE	DIMENSIONS				APPLICABLE CABLE SIZE				
	ΦA min	ΦB min	L max	D max	ΦE min	ΦF min	ΦG max	H ± 0.5	J ± 0.5
SWT-3.0-X	2.5	3.0	24.5	3.0	1.5	1.0	2.5	6.0	7.0
SWT-4.5-X	4.0	4.5	29.3	4.5	2.0	1.5	4.0	8.0	9.0
SWT-6.0-X	5.5	6.0	32.0	6.0	3.3	2.8	5.5	9.0	10.0
SWT-7.0-X	6.5	7.0	32.5	7.0	3.5	2.8	6.5	10.0	11.0
SWT-8.5-X	8.0	8.5	35.5	8.5	4.0	3.5	8.0	11.0	12.0
SWT-9.0-X	8.5	9.0	35.5	9.0	4.5	4.0	8.5	12.0	13.0
SWT-11.0-X	10.2	11.0	35.5	11.0	5.5	5.0	10.2	13.0	14.0
SWT-13.0-X	12.0	13.0	40.0	13.0	6.5	6.0	12.0	14.0	15.0

"X" means temperature rating: H220°C, M180°C, L150°C



Inductor Splicer

Splicer made of Non-flame-retardant clear tubing with soldering tin inside.



Wires

Temperature: Start at 70°C
 Wire recovered at
 180°C (M) / 220°C (H)
 Spliced and effectively
 protected from the welding stress.

EPDMC

M Cold Shrink Tube

EPDM Cold Shrink Tubes are a series of open-ended, tubular sleeves, which are factory expanded and assembled onto a cable core. They are supplied for field installation in this pre-condition. The core is removed after the tube has been installed for installation over an in line connection, terminal lug, or the tube to shrink and form a waterproof seal. The tube is made of EPDM rubber, which contains no sulphur.

Advantages

- Easy installation, requires only workman's hands
- Accommodates a wide range of cable sizes
- Resistant to moisture or heat required
- Excellent thermal stability
- Resistant to light, retains its resiliency and pressure even after prolonged years of ageing and exposure
- Maintains its electrical properties
- Available in a tough rubber formulation to provide a waterproof and rough backfilling
- Resistant to acids and alkalis
- Resistant to ozone and ultraviolet light

Dimensions

Woer code	Diameter(mm)	Range of cable outer diameter, mm(inch) (min - max)	Relaxed tube length,mm(inch)
2320-6	20	8-14(0.31''-0.55'')	152(6'')
2320-7	20	8-14(0.31''-0.55'')	178(7'')
2525-7	25	10-20(0.39''-0.79'')	178(7'')
2525-11	25	10-20(0.39''-0.79'')	279(11'')
2532-11	32	12-28(0.47''-1.10'')	279(11'')
2635-9	35	14-30(0.55''-1.18'')	229(9'')
2635-11	35	14-30(0.55''-1.18'')	279(11'')
2740-6	40	17.5-33(0.69''-1.30'')	152(6'')
2740-8	40	17.5-33(0.69''-1.30'')	203(8'')
2740-10	40	17.5-33(0.69''-1.30'')	254(10'')
2740-12	40	17.5-33(0.69''-1.30'')	305(12'')
2740-16	40	17.5-33(0.69''-1.30'')	406(16'')
2853-6	53	25-46(0.98''-1.81'')	152(6'')
2853-12	53	25-46(0.98''-1.81'')	305(12'')
2853-18	53	25-46(0.98''-1.81'')	457(18'')
2970-6	70	32-65(1.26''-2.56'')	152(6'')
2970-12	70	32-65(1.26''-2.56'')	305(12'')
2970-14	70	32-65(1.26''-2.56'')	355(14'')
3104-9	104	43-94(1.69''-3.70'')	229(9'')

Technical data

Property	Test data
100% Modulus ASTM D 412	1.17 Mpa
300% Modulus ASTM D 412-75	4.7 Mpa
Ultimate TensileASTM D 412-75 Original	11.6 Mpa
Ultimate Elongation ASTM D 412-75 Original	635%
Dielectric StrengthASTM D 149-75 Original @ 1.78mm	19.1 MV/m
7 days in H 02 at 90°C	18.1MV/m
Dielectric Constant Original	5.0
7 days 90°C (H 0)2	5.6



Dimensions

Size (mm)	Inside Diameter(mm)		Wall Thickness After Recovery(mm)
	As Supplied	After Recovery	
Φ 6	6.5	3	0.8±0.10
Φ 8	8.5	4	0.9±0.10
Φ 10	10	5	1.2±0.10
Φ 12	12	6	1.2±0.10
Φ 16	16	8	1.5±0.15
Φ 20	20	10	1.5±0.15
Φ 30	30	15	1.8±0.15
Φ 40	40	20	2.0±0.15
Φ 50	50	25	2.0±0.20
Φ 60	60	30	2.0±0.30
Φ 70	70	35	2.0±0.30

Wall thickness will be less if tubing recovery is restricted during shrinkage.

EPDMH Silicone EPDM Heat-Shrinkable Tubing

Used for jacketing and protection to cables, pipes, wires, terminals, connectors and various apparatus

Features

- Environmentally friendly
- Withstanding low and high-temperature
- Soft touch & good hand feeling
- Low shrink ratio than heat shrinkable silicone tubes
- Resistant to acids and alkalis
- Resistant to chemical solvent
- Resistant to ultraviolet light and weather aging
- Resistant to ozone
- Shrink temperature:100°C
- Full recovery temperature :135°C
- Temperature Range:-55 to 150°C
- Ratio: 2:1
- Color: Hard Black

Technical data

Property	Test data
Specific Gravity (25 °C)	1.1
Ultimate Tensile Strength (Mpa) Before aging	≥14
Ultimate Tensile Strength (Mpa) 180°C×168h	≥ 9.8
Ultimate Elongation (%)	≥400
Tear Strength (N/mm)	≥60
Volume Resistivity: (Ω.cm)	2×10 ¹³
Dielectric breakdown (kv/mm)	≥12



Cables & Wires



set up an electric circuit



Red: common wire
Blue: our wire

3321 Cross-linked Insulated Wire

Applications: ranges of water heaters, clothes dryers, cookers, toasters, transformers, lighting, ballasts and motors. Uses: for heating of electric heating, gas heating, cooking and hairdressing equipment.

Features

- Temperature Rating: 150 °C
- Rating: 600 V
- Standard: UL758, UL1581 & IEC60754-2, RoHS
- Available in bare, stranded or solid conductor, 30-4/0AWG.
- Available in cross-linked flame retardant PE insulated.

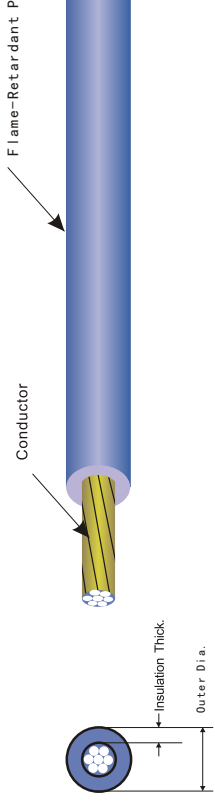
Available in various insulation thickness to ensure easy stripping and cutting.

UL VW-1 and vertical test



Dimensions

AWG	Conductor No. / mm	Conductor Dia.(mm)	Insulation Thickness(mm)	Outer Dia. (mm)	Maximum Resistance at 20°C(Ω/Km)	Standard
24	11/0.16	0.61	0.80±0.10	2.21±0.20	94.2	
22	17/0.16	0.76	0.80±0.10	2.36±0.20	59.4	
20	26/0.16	0.94	0.80±0.10	2.54±0.20	37.4	
18	16/0.254	1.18	0.80±0.10	2.78±0.20	23.5	
16	26/0.254	1.50	0.80±0.10	3.10±0.20	14.7	
14	41/0.254	1.90	0.80±0.10	3.50±0.20	9.25	
12	65/0.254	2.40	0.80±0.10	4.00±0.20	5.75	
10	105/0.254	3.00	0.80±0.10	4.60±0.20	3.62	



E227566 AWM STYLE 3321 XX AWG 150C 600V VW-1 -- AWM IA 150C 600V FT1 -

Colors:

Black, brown, red, orange, yellow, green, blue, violet, grey, white.

Similar product:

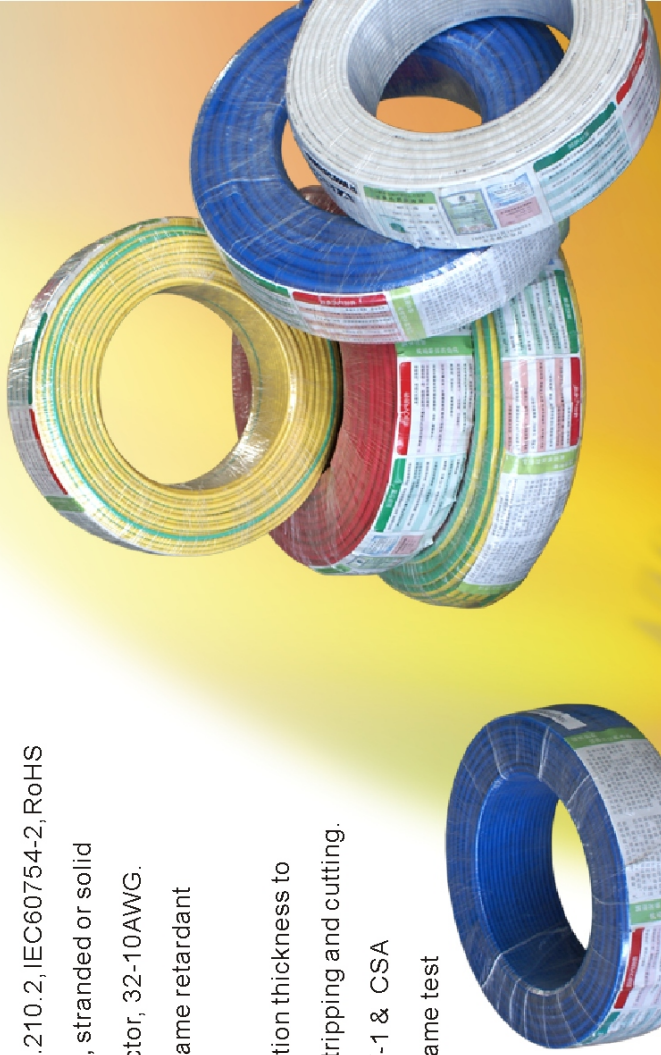
E227566 AWM STYLE 3289 XX AWG 150C 600V VW-1 -- AWM IA 150C 600V FT1 -

266 Halogen Free Cross-linked PE Insulated Wire

ranges of water heaters, clothes dryers, rotisseries, cookers, transformers, lighting, ballasts and motors. of electric heating, gas heating, cooking equipment and equipment.

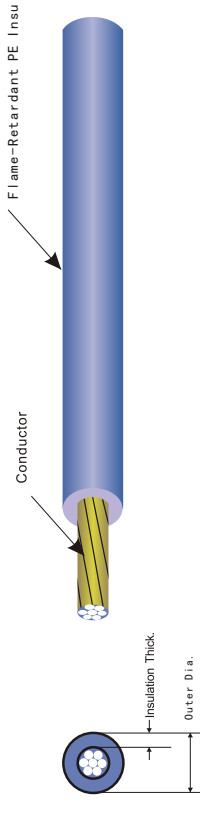
Features

- Temperature Rating: 125 °C
- Voltage Rating: 300 V
- Standards: UL 758, UL 1581 & IEC 60754-2, RoHS
- Available in bare, stranded or solid conductor, 32-10AWG.
- Black flame retardant rated.
- Insulation thickness to easy stripping and cutting.
- UL VW-1 & CSA typical flame test



Dimensions

AWG	Conductor No. / mm	Conductor Dia.(mm)	Insulation Thickness(mm)	Outer Dia. (mm)	Maximum Resistance at 20°C(Ω/Km)	Standards (mm)
30	7/0.10	0.30	0.40±0.05	1.10±0.15	381	
28	7/0.127	0.38	0.40±0.05	1.18±0.15	239	
26	7/0.16	0.48	0.40±0.05	1.28±0.15	150	
24	11/0.16	0.61	0.40±0.05	1.41±0.15	94.2	
22	17/0.16	0.76	0.40±0.05	1.56±0.15	59.4	
20	26/0.16	0.94	0.40±0.05	1.74±0.15	37.4	
18	16/0.254	1.18	0.40±0.05	1.98±0.15	23.5	
16	26/0.254	1.50	0.40±0.05	2.30±0.15	14.7	



E227566 AWM STYLE 3266 XX AWG 125C 300V VW-1- Flame Retardant PE Insu
 E227566 AWM STYLE 3266 XX AWG 125C 300V VW-1- Flame Retardant PE Insu

Colors:

Black, brown, red, orange, yellow, green, blue, violet, grey, white.

Similar products

E227566 AWM STYLE 3265 XX AWG 125C 150V VW-1- Flame Retardant PE Insu
 E227566 AWM STYLE 3363 XX AWG 125C 300V VW-1- Flame Retardant PE Insu
 E227566 AWM STYLE 3271 XX AWG 125C 600V VW-1- Flame Retardant PE Insu
 E227566 AWM STYLE 3298 XX AWG 125C 600V VW-1- Flame Retardant PE Insu
 E227566 AWM STYLE 3331 XX AWG 125C 600V VW-1- Flame Retardant PE Insu
 E227566 AWM STYLE 3351 XX AWG 125C 600V VW-1- Flame Retardant PE Insu
 E227566 AWM STYLE 3352 XX AWG 125C 600V VW-1- Flame Retardant PE Insu

3385 Halogen Free Cross-linked PE Insulated Wire

ranges, water heaters, clothes dryers, rotisseries, cookers,

transformers, lighting, ballasts and motors.

ing of electric heating, gas heating, cooking equipment and
g equipment.

Features

Temperature Rating: 105 °C

Rating: 300 V

Standards: UL758, UL1581 &

IEC60754-2, RoHS

Available in bare, stranded or solid

conductor, 32-10AWG.

Flame retardant

Insulated.

Insulation thickness to

allow easy stripping and cutting.

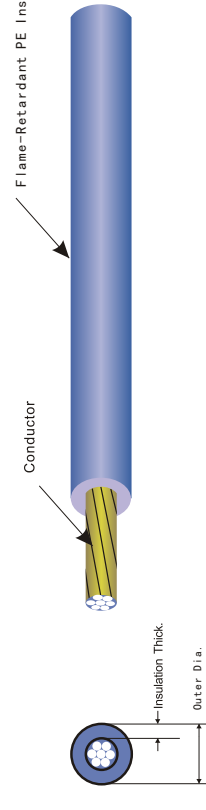
UL VW-1 & CSA

Passes critical flame test



Dimensions

AWG	Conductor No. / mm	Conductor Dia.(mm)	Insulation Thickness(mm)	Outer Dia. (mm)	Maximum Resistance at 20°C(Ω/Km)	Standards (mm)
30	7/0.10	0.30	0.40±0.05	1.10±0.15	381	
28	7/0.127	0.38	0.40±0.05	1.18±0.15	239	
26	7/0.16	0.48	0.40±0.05	1.28±0.15	150	
24	11/0.16	0.61	0.40±0.05	1.41±0.15	94.2	
22	17/0.16	0.76	0.40±0.05	1.56±0.15	59.4	
20	26/0.16	0.94	0.40±0.05	1.74±0.15	37.6	
18	16/0.254	1.18	0.40±0.05	1.98±0.15	23.5	
16	26/0.254	1.50	0.40±0.05	2.30±0.15	14.7	



E227566 AWM STYLE 3385 XX AWG 105C 300V VW-1-- AWM I A/B 105C 300V FT1-LF-
E227566 AWM STYLE 3385 XX AWG 105C 300V VW-1-- AWM I A/B 105C 300V FT1-LF-

Colors:

Black, brown, red, orange, yellow, green, blue, violet, grey, white.

Similar products

E227566 AWM STYLE 3302 XX AWG 105C 30V VW-1-- AWM I A/B 105C 30V FT1-LF--HF-
E227566 AWM STYLE 10368 XX AWG 105C 300V VW-1-- AWM I A/B 105C 300V FT1-LF--HF-
E227566 AWM STYLE 3386 XX AWG 105C 600V VW-1-- AWM I A/B 105C 600V FT1-LF--HF-
E227566 AWM STYLE 3569 XX AWG 105C 600V VW-1-- AWM I A/B 105C 600V FT1-LF--HF-
E227566 AWM STYLE 3275 XX AWG 105C 1000V VW-1-- AWM I A/B 105C 1000V FT1-LF-

Power Cable Accessories



Dimensions

SIZE	EXPANDED		RECOVERED		Standard Value
	INTERNAL DIAMETER (MIN) D mm	INTERNAL DIAMETER (MAX) D mm	INTERNAL DIAMETER (MAX) D mm	WALL THICKNESS mm	
WRSJG-30/12	30	12	2.1 ± 0.2	2.1 ± 0.2	6
WRSJG-35/14	35	14	2.2 ± 0.2	2.2 ± 0.2	6
WRSJG-40/17	40	17	2.2 ± 0.2	2.2 ± 0.2	6
WRSJG-50/22	50	22	2.4 ± 0.2	2.4 ± 0.2	6
WRSJG-55/24	55	24	3.2 ± 0.2	3.2 ± 0.2	6
WRSJG-60/26	60	26	3.2 ± 0.2	3.2 ± 0.2	6
WRSJG-70/29	70	29	3.2 ± 0.2	3.2 ± 0.2	6
WRSJG-75/35	75	35	3.2 ± 0.2	3.2 ± 0.2	6
WRSJG-90/38	90	38	3.6 ± 0.2	3.6 ± 0.2	6
WRSJG-100/42	100	42	3.6 ± 0.2	3.6 ± 0.2	6

Shrinkable Anti-tracking Insulation tube

Shrinkable Non Tracking Tubes are used In Medium Voltage Cable terminations upto 36 KV. The tubes are produced from high tracking cross linked polyolefin material that offers excellent insulation and long term service reliability.

Features

- Material: polyolefin, inner coated with polyurethane on the end.
- Operating temperature: ~100°C
- Installation temperature: Start at 100°C, shrink totally at 130°C
- Color: red



Technical Data

Property	Test Method	Standard Value
Operating temperature	IEC 216	-45°C to +105°C
Tensile strength	ASTM-D 2671	≥ 13MPa
Elongation at break	ASTM-D 2671	≥ 300%
Tensile strength after aging	ASTM-D-2671/120°C, 168hrs	≥ 11MPa
Elongation at break after aging	ASTM-D-2671/120°C, 168hrs	≥ 240%
Dielectric strength	IEC 243	≥ 20kV/mm
Tracking resistant	ASTM-D-2303	3.75Kv, 1hr, pass
Volume resistance	ASTM-D-2303	≥ 1 × 10 ¹⁴ Ω·cm
Dielectric constant	IEC 250	3.0
Longitudinal shrinkage	-	≤ 10%
Eccentricity	ASTM-D-2671	≤ 30%
Water absorption	ISO 62	≤ 0.1%
Flammability (Oxygen index)	IEC 93	≥ 28
Copper corrosion	ASTM-D-2671	120°C, 168hr, no corrosion
Cold bend	ASTM-D-2671	-40°C, 4hrs, no cracking

Dimensions

Part No.	Busbar Width (mm)	As supplied (mm)		After Recovery (mm)	
		Inner Diameter	Wall thickness	Max. Inner Diameter	Wall thickness
1KV WMPG 30	30	31.5±1.0	0.45±0.15	15	0.95±0.1
1KV WMPG 35	40	37.0±1.5	0.50±0.15	16	1.0±0.1
1KV WMPG 40	40	40.5±1.5	0.50±0.15	20	1.0±0.1
1KV WMPG 50	50	50.5±2.0	0.50±0.15	25	1.0±0.1
1KV WMPG 60	60	60±3.0	0.80±0.2	30	1.3±0.2
1KV WMPG 70	80	70±3.0	0.80±0.2	32	1.5±0.2
1KV WMPG 80	80/100	80±3.0	0.80±0.3	40	1.5±0.3
1KV WMPG 90	100	90±4.0	0.80±0.3	43	1.5±0.3
1KV WMPG 100	100/120	100±4.0	0.80±0.3	50	1.5±0.3
1KV WMPG 120	150	120±4.0	0.80±0.3	60	1.5±0.3
1KV WMPG 150	180	150±4.0	0.80±0.3	75	1.5±0.3

Part No.	Busbar Width (mm)	As supplied (mm)		After Recovery (mm)	
		Inner Diameter	Wall thickness	Max. Inner Diameter	Wall thickness
10KV WMPG 20	20	20±0.8	1.0±0.2	9	2.5±0.0
10KV WMPG 30	30	30±0.8	1.0±0.2	13	2.5±0.0
10KV WMPG 40	40	40±1.0	1.2±0.2	15	2.5±0.0
10KV WMPG 50	50	50±2.0	1.2±0.2	20	2.5±0.0
10KV WMPG 60/65	60	65±3.0	1.2±0.2	24	2.8±0.0
10KV WMPG 80	80/100	80±3.0	1.2±0.3	32	2.8±0.0
10KV WMPG 100	100/120	100±4.0	1.2±0.3	40	2.8±0.0
10KV WMPG 120	150	120±4.0	1.2±0.3	48	2.8±0.0
10KV WMPG 150	200	150±4.0	1.2±0.3	60	2.8±0.0
10KV WMPG 180	MAX.	180±5.0	1.2±0.3	70	2.8±0.0
10KV WMPG 210	MAX	210±5.0	1.2±0.3	80	2.8±0.0
10KV WMPG 240	MAX	240±5.0	1.2±0.3	90	3.8±0.0
10KV WMPG 300	MAX	300±5.0	1.2±0.3	100	3.8±0.0

Part No.	Busbar Width (mm)	As supplied (mm)		After Recovery (mm)	
		Inner Diameter	Wall thickness	Max. Inner Diameter	Wall thickness
35KV WMPG 30	30	30±1.0	2.0±0.3	13	134.0±0.0
35KV WMPG 40	40	40±1.0	2.0±0.3	15	4.0±0.0
35KV WMPG 50	50	50±2.0	2.2±0.3	20	4.5±0.0
35KV WMPG 60/65	60	65±2.0	2.2±0.3	24	4.5±0.0
35KV WMPG 80	80/100	80±3.0	2.2±0.3	32	4.5±0.0
35KV WMPG 100	100/120	100±4.0	2.5±0.3	40	4.5±0.0
35KV WMPG 120	150	120±4.0	2.5±0.3	48	5.0±0.0
35KV WMPG 150	200	150±4.0	2.5±0.3	60	5.0±0.0
35KV WMPG 180	MAX.	180±5.0	2.5±0.3	70	5.5±0.0
35KV WMPG 210	MAX.	210±5.0	2.5±0.3	80	5.5±0.0

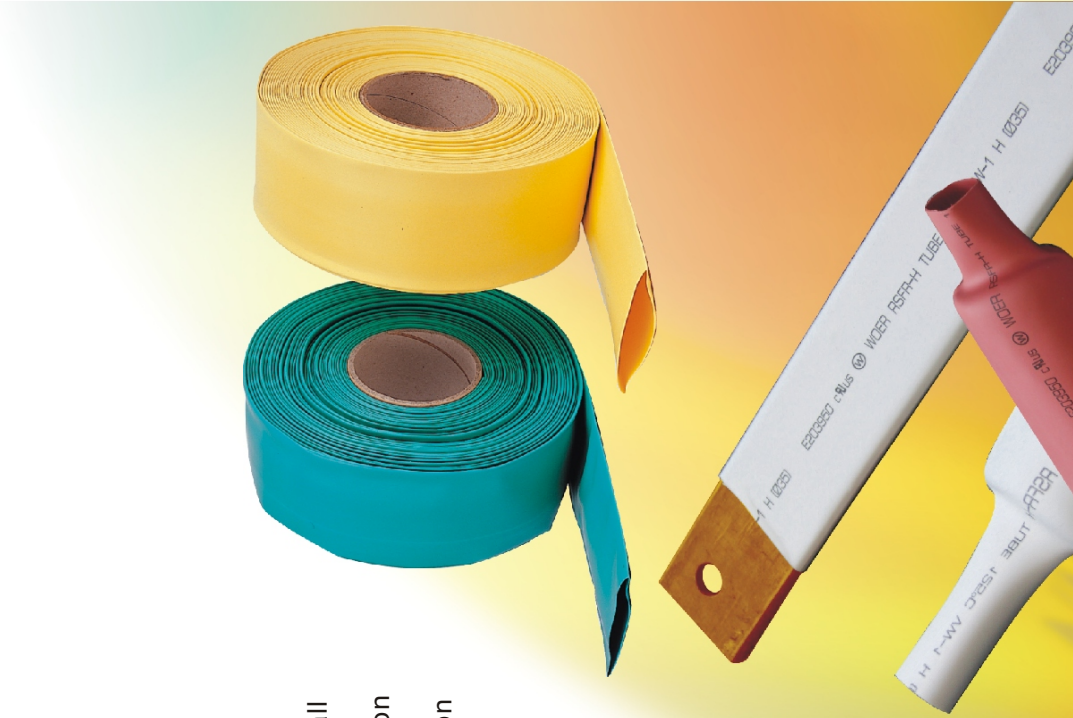
WMPG Heat Shrinkable Busbar Insulating Tube

Voltage: 1KV, 10KV, 35KV

Colors: Red, Yellow, Green, Black

Features

- Prevents short circuit fault caused by small animals such as mice, snakes and so on
- Protects busbar from chemical corrosion
- Prevents busbar from being damaged by strong acid, alkali, salt etc
- Prevents busbar from being damaged by accidental injury to overhaul workers when they enter electrified areas
- Prevents busbar from being damaged by mistakes
- Provides excellent insulation
- Reduces maintenance to supply required
- Provides fire protection for the busbar system



SJD

S-linked heat Shrinkable Insulation Tape

Heat shrinkable insulation tape adopts polyolefin and environmental friendly heat sensitive that can be used for insulation, and anti-corrosion purposes.

Features

- Repair of the cable protective layers suffered mechanical and heat damage and corrossions
- Packages caused by organic solvent.
- Surface treatment at the ends of protective pipes of heat shrinkable power cable joints.
- Corrosion and seal of pipes.
- Application on bus bars in switchgear and power stations.
- High temperature:
- Working temperature: 105 degrees
- Shrinkage temperature: 100 degrees.
- Shrink ratio: > 30%
- Colors: black, red,



Dimensions

SIZE	STANDARD WIDTH(MM)	STANDARD THICKNESS(MM)	STANDARD PACK
WRSJD-0825	25	0.8±0.1	5 or 10
WRSJD-0850	50	0.8±0.1	5 or 10
WRSJD-0875	75	0.8±0.1	5 or 10
WRSJD-08100	100	0.8±0.1	5 or 10
WRSJD-1025	25	1.0±0.1	5 or 10
WRSJD-1050	50	1.0±0.1	5 or 10
WRSJD-1075	75	1.0±0.1	5 or 10
WRSJD-10100	100	1.0±0.1	5 or 10

Technical Data

Property	Test Method	Standard Value
Tensile strength, Mpa	ASTM D 638	≥12
Elongation, %	ASTM D 638	≥400
Tensile strength after aging, Mpa	ASTM D 2671/120°C, 168h	≥10
Elongation after aging, %	ASTM D 2671/120°C, 168h	≥320
Volume resistance, Ω .cm	IEC 93	≥1×10 ¹⁴
Dielectric strength, kV/mm	IEC 243	≥20

Dimensions

Size(mm)	Inner Diameter as supplied(mm)	After recovery (mm)		Length
		Inner Diameter	Total thickness	
30/11	≥30	≤11	5.5±0.3	300-1200mm can be cut according to specific lengths
35/13	≥35	≤13	5.5±0.3	
45/16	≥45	≤16	5.5±0.3	
55/20	≥55	≤20	5.5±0.3	
65/27	≥65	≤27	5.5±0.3	
88/30	≥88	≤30	7.5±0.3	
100/35	≥100	≤35	7.0±0.3	
120/45	≥120	≤45	7.0±0.3	

WT Semi-conductive/Insulation cable layer shrinkable tubing

Highly heat shrinkable insulating material and heat shrinkable conductive material, via special processing, with good insulation layer and good semi-conduction in its outer layer, and reliable shield protection.

Applied to power cable straight joints for insulating and outer-layer up to 35KV, and other places where require insulation

Features

- Material: cross-linked polymer;
- Working temperature: -40 ~ 100 °C;
- Shrinkage temperature: start at 100 °C and full recovery at 130 °C;
- Color: black;



Technical Data

Inner Insulation layer

Property	Test Method	Standard Value
Hardness (Shore A)	ISO 7619	≤90
Tensile strength, Mpa	ASTM D 2671	≥12
Elongation, %	ASTM D 2671	≥300
Volume resistance, Ω .cm	IEC 93	≥10 ¹⁴
Water Absorption(%)	ISO 62	≤0.5

Outer Semi-Conductive Layer

Property	Test Method	Standard Value
Hardness (Shore A)	ISO 7619	≤90
Tensile strength, Mpa	ASTM D 2671	≥12
Elongation, %	ASTM D 2671	≥300
Volume resistance, Ω .cm	IEC 93	1 × 10 ¹² ~ 1 × 10 ¹³ Ω .cm

SHG

SHG: Shrinkable Protective Tube

Insulation and rapid shrink. Mainly used for the outer of cable straight joints.

Features

Material: cross-linked polyolefin

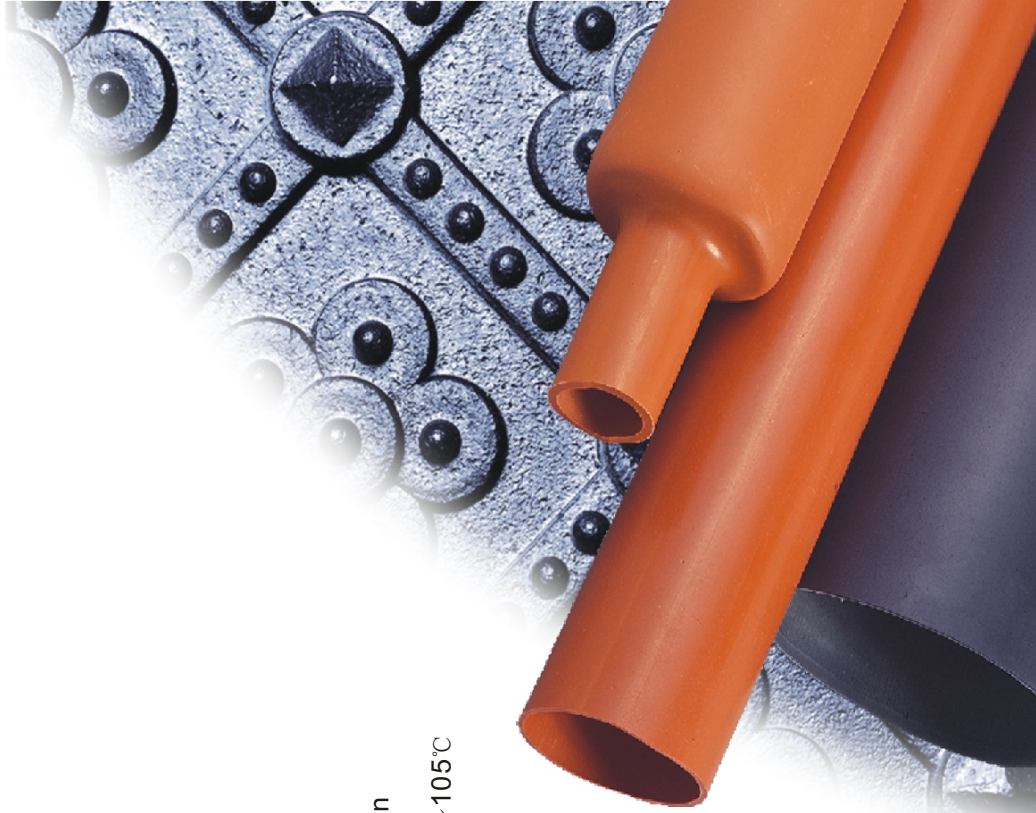
Working temperature: $-45^{\circ}\text{C} \sim 105^{\circ}\text{C}$

Installation temperature: Start

at 100°C , and shrink total

at

black



Dimensions

Part No.	Inner Diameter		Recovered wall thickness Nom. (mm)	Standard length (mm)
	As supplied Min (mm)	After Recovery (mm)		
WRSHG-10/5	10	5	1.3±0.2	275-1000
WRSHG-15/7	15	7	1.3±0.2	275-1000
WRSHG-20/8	20	8	1.8±0.2	275-1000
WRSHG-30/11	30	11	1.8±0.2	275-1000
WRSHG-35/13	35	13	2.0±0.2	275-1000
WRSHG-40/17	40	17	2.2±0.2	275-1000
WRSHG-50/22	50	22	2.5±0.2	800-1200
WRSHG-60/25	60	25	2.8±0.2	800-1200
WRSHG-80/30	80	30	2.9±0.2	850-1200
WRSHG-100/39	100	39	3.0±0.2	850-1200
WRSHG-120/45	120	45	3.0±0.2	850-1200
WRSHG-140/56	140	56	3.5±0.2	850-1200
WRSHG-160/56	160	58	3.5±0.2	850-1200
WRSHG-180/60	180	60	4.5±0.2	850-1200
WRSHG-210/67	210	67	4.5±0.2	850-1200
WRSHG-240/85	240	85	4.5±0.2	850-1200

Technical Data

Property	Test Method	Standard Value
Tensile strength	ASTM-D-638	$\geq 13\text{MPa}$
Elongation at break	ASTM -D- 638	$\geq 300\%$
Tensile strength after aging	ASTM-D-2671/120°C, 168hrs	$\geq 11\text{MPa}$
Elongation at break after aging	ASTM-D-2671/120°C, 168hrs	$\geq 240\%$
Volume resistance	ASTM-D-2303	$\geq 1 \times 10^{14} \Omega \cdot \text{cm}$
Dielectric strength	IEC 243	$\geq 20\text{kV/mm}$
Longitudinal shrinkage	-	$\leq 10\%$
Eccentricity	ASTM-D-2671	$\leq 30\%$
Water absorption	ISO 62	$\leq 0.1\%$

Dimensions

Part No.	Inner Diameter		Recovered wall thickness Nom.(mm)	Standard length
	As supplied Min(mm)	After Recovery (mm)		
WRSYL-30/12	30	12	2.1 ± 0.1	100-
WRSYL-35/15	35	15	2.1 ± 0.1	100-
WRSYL-40/18	40	18	2.1 ± 0.1	100-
WRSYL-45/20	45	20	2.1 ± 0.1	100-
WRSYL-55/25	55	25	3.2 ± 0.1	100-
WRSYL-70/28	70	28	3.2 ± 0.1	100-
WRSYL-85/39	85	39	3.5 ± 0.1	100-

WRSYL: Shrinkable Stress Control Tube

Effective stress control for termination kits and straight joints cable and PILC Cable up to 36kV.

Technical Data

Property	Test Method	Standard Value
Operating temperature	IEC 216	-40°C to +100°C
Tensile strength	ASTM-D-638	≥12MPa
Elongation at break	ASTM-D-638	≥300%
Tensile strength after aging	ASTM-D-2671/120°C, 168hrs	≥10MPa
Elongation at break after aging	ASTM-D-2671/120°C, 168hrs	≥210%
Volume resistance	IEC 93	$1 \times 10^{10} \Omega \cdot \text{cm}$
Dielectric constant	IEC 250	≥20
Longitudinal shrinkage		≤10%
Eccentricity	ASTM-D-2671	≤30%
Water absorption	ISO 62	≤0.1%



Features

Material: cross-linked polymer

Operating temperature: -40°C ~ 100°C

Installation temperature: Start at 100°C,

Shrink totally at 130°C

Standard Color: black

Dimensions

Part No.	Inner Diameter		Recovered wall thickness Nom. (mm)	Standard length
	As supplied Min (mm)	After Recovery (mm)		
WRSBG-45/18	45	18	2.4 ± 0.1	400-1
WRSBG-50/20	50	20	2.4 ± 0.1	400-1
WRSBG-55/23	55	23	2.4 ± 0.1	400-1
WRSBG-65/26	65	26	2.4 ± 0.1	400-1
WRSBG-100/30	100	30	2.9 ± 0.1	400-1
WRSBG-120/35	120	35	2.9 ± 0.1	400-1

SBG : Shrinkable Semi-conductive Tube

SBG Semi-conductive Tubes are used in Cable Joints up to 36 kV. They provide a protective and insulating screen on the build-up insulation over the conductors. The Semi-Conductive Tubing is made from thermally cross-linked Semi-conductive Polymeric material.

Technical Data

Property	Test Method	Standard Value
Operating temperature	IEC 216	-40 °C to +100 °C
Tensile strength	ASTM-D-638	≥ 12 MPa
Elongation at break	ASTM-D-638	≥ 300%
Tensile strength after aging	ASTM-D-2671/120 °C, 168hrs	≥ 9.6 MPa
Elongation at break after aging	ASTM-D-2671/120 °C, 168hrs	≥ 240%
Volume resistance	ASTM-D-2303	$1 \times 10^{2-4} \times 10^3 \Omega \cdot \text{cm}$
Longitudinal shrinkage	-	≤ 15%
Eccentricity	ASTM-D-2671	≤ 30%
Water absorption	ISO 62	≤ 0.1%



Features

- Material: cross-linked polymer
- Operating temperature: -40 °C ~ 100 °C
- Installation temperature: Start at 110 °C, shrink totally at 130 °C
- Standard Color: black

Dimensions

Order ref. Number	Breakout main diameter		Finger diameter		Full length (mm)
	As Supplied (mm)	After Recovery (mm)	As Supplied (mm)	After Recovery (mm)	
2 cores breakout	WISZ12-72/23	≥ 72	≤ 23	≥ 40	135±5
	WISZ12-25/11	≥ 25	≤ 11	≥ 10	145±5
	WISZ12-40/15	≥ 40	≤ 15	≥ 20	145±5
	WISZ12-50/17	≥ 50	≤ 17	≥ 25	145±5
	WISZ12-65/23	≥ 65	≤ 23	≥ 35	145±5
3 cores breakout	WISZ13-27/17	≥ 27	≤ 17	≥ 12	130±5
	WISZ13-50/22	≥ 50	≤ 22	≥ 19	165±5
	WISZ13-60/28	≥ 60	≤ 28	≥ 24	170±5
	WISZ13-70/36	≥ 70	≤ 36	≥ 29	210±5
	WISZ13-90/45	≥ 90	≤ 45	≥ 40	220±5
4 cores breakout	WISZ13-105/53	≥ 105	≤ 53	≥ 44	225±5
	WISZ13-130/63	≥ 130	≤ 63	≥ 58	230±5
	WISZ13-140/63	≥ 140	≤ 63	≥ 65	230±5
	WISZ14-40/18	≥ 40	≤ 18	≥ 10	130±5
	WISZ14-50/24	≥ 50	≤ 24	≥ 15	150±5
5 cores breakout	WISZ14-70/32	≥ 70	≤ 32	≥ 24	175±5
	WISZ14-80/44	≥ 80	≤ 44	≥ 30	185±5
	WISZ14-95/44	≥ 95	≤ 44	≥ 35	185±5
	WISZ14-110/44	≥ 110	≤ 44	≥ 40	185±5
	WISZ15-40/21	≥ 40	≤ 21	≥ 10	150±5
5 cores breakout	WISZ15-55/29	≥ 55	≤ 29	≥ 15	170±5
	WISZ15-70/38	≥ 70	≤ 38	≥ 24	175±5
	WISZ15-90/49	≥ 90	≤ 48	≥ 30	190±5
WISZ15-120/45	≥ 120	≤ 45	≥ 40	195±5	

Other sizes are available upon request.

Technical Data

Property	Test Method	Standard
Operating temperature	ICE 216	Insulated breakout -55°C ~ 100°C
Tensile strength	ASTM D 2671	≥ 13MPa
Elongation	ASTM D 2671	≥ 300%
Tensile strength after thermal aging	ASTM D 2671/120°C, 168hrs	≥ 11MPa
Elongation after thermal aging	ISO 62	≥ 210%
Water absorption	ISO 62	≤ 0.1%
Volume resistivity	ASTM D2303	≥ 1×10 ¹⁴ Ω·cm
Oil resistance (Tensile strength after dipping)	ASTM D2671/70 Cable oil/168hrs	-----
Oil resistance (Elongation at break after dipping)	ASTM D2671/70 Cable oil/168hrs	-----

SZT

Polyolefin Cable Breakout Boots
polyolefin

Temperature: Start at 100 °C, and shrink totally at 130 °C
Rating: up to 35KV

,red,milk-white(only for oil-resistant terminations)



Cables

ratio accommodates a wide range of cables
for 2, 3, 4 and 5 way cable

relief and mechanical protection
plastic adhesive liner

ous operating temperature:
temperature: 135°C



Dimensions

Part No.	Inner diameter		Full length (mm)	Wall thickness (mm)
	As Supplied (mm)	After Recovery (mm)		
WRSFM-11/5	≥11	≤5.5	≥22	As Supplied (mm) 0.7±0.1
WRSFM-16/7	≥16	≤7.5	≥75	1.3±0.1
WRSFM-25/10	≥25	≤10.5	≥80	1.5±0.1
WRSFM-32/16	≥32	≤16.5	≥90	1.5±0.1
WRSFM-50/26	≥50	≤26	≥115	2.0±0.1
WRSFM-70/30	≥70	≤30	≥125	1.8±0.1
WRSFM-100/40	≥100	≤40	≥140	1.8±0.1
WRSFM-120/57	≥120	≤57	≥155	1.8±0.1
WRSFM-140/60	≥140	≤60	≥180	2.0±0.1

Other sizes are available upon request.

WRSFM Welded Polyolefin End Cap

WRSFM end caps are a simple yet effective method for sealing pipe, conduit or other similar objects



Features

- Simple to install
- High strength to pipe ratio
- Excellent resistance to weathering
- Resistant to common fluids and chemicals
- The adhesive liner provides excellent adhesion
- The hot melt adhesive resists moisture
- Wide operating temperature range
- Maximum operating temperature: 120°C

Technical Data

Property	Test Method	Standard
Tensile strength	ASTM D 2671	≥
Elongation	ASTM D 2671	≥
Tensile strength after thermal aging	ASTM D 2671 (120°C/168hrs)	≥
Elongation after thermal aging	ASTM D 2671 (120°C/168hrs)	≥
Longitudinal shrinkage	UL 224	≤
Eccentricity	ASTM D2671	≤
Water absorption	ISO 62	≤
Volume resistivity	IEC 93	≥
Dielectric strength	IEC 243	≥
Resistance to stress cracking	ASTM D 1693 (50°C)	NC
Resistance to fungus and decay	ISO 846	PC

Dimensions

Part No.	Inner Diameter		recovered wall thickness Nom. (mm)	DE standard
	As supplied Min. (mm)	After recovery Max. (mm)		
WRSXP-30/12	30	13	1.6±0.2	5
WRSXP-50/18	50	18	1.5±0.2	5
WRSXP-60/22	60	22	1.5±0.2	5
WRSXP-85/30	85	30	1.5±0.2	5
WRSXP-100/35	100	35	1.5±0.2	5
WRSXP-120/40	120	40	1.5±0.2	5
WRSXP-150/50	150	50	1.5±0.2	5

SXP Shrinkable Repair Sleeve

Wraparound insulation product that easily installs in repair applications providing excellent insulation and protection in all climates.

Technical Data

Property	Test Method	Typical Performance
Tensile strength	ASTM-D-638	≥13MPa
Elongation at break	ASTM -D- 638	≥300%
Tensile strength after aging	ASTM-D-2671/120°C, 168hrs	≥11MPa
Elongation at break after aging	ASTM-D-2671/120°C, 168hrs	≥210%
Volume resistance	ASTM-D-2303	≥1 × 10 ¹⁴ Ω
Dielectric strength	IEC 243	≥20kV/mm
Longitudinal shrinkage	-	≤ 10%
Eccentricity	ASTM-D-2671	≤30%
Water absorption	ISO 62	≤0.1%

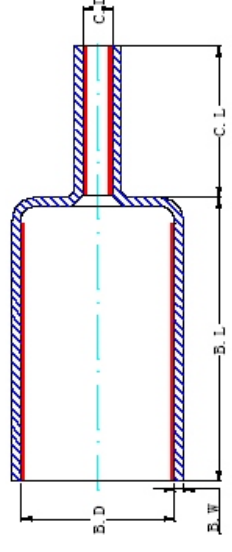


Features

- Shrink ratio covers even irregular shapes
- Split resistance than competitive products
- Plastic adhesive liner provides
- Superior environmental protection
- Excellent insulation
- Continuous operating
- Temperature: -45°C to 105°C
- Installation temperature: start
- Full recovery at 130°C.

Dimensions

Part No.	B.D		C.D		B.L		C.L	
	Supplied	Recovered	Supplied	Recovered	Supplied	Recovered	Supplied	Recovered
AC-2	≥58	≤48	≥12.5	≤6.5	76 ± 2		78 ± 2	
AC-3B	≥83	≤75	≥12.5	≤6.5	102 ± 2		78 ± 2	
AC-4	≥108	≤100	≥12.5	≤6.5	102 ± 2		78 ± 2	
AC-4B	≥120	≤87	≥13.5	≤6.5	102 ± 2		78 ± 2	
Φ86	≥86	≤40	≥16.8	≤5.6	150 ± 2		78 ± 2	
Φ112	≥112	≤55	≥16.8	≤5.6	150 ± 2		78 ± 2	



shrinkable anode cap

seals and protects the critical connection between lead anode.

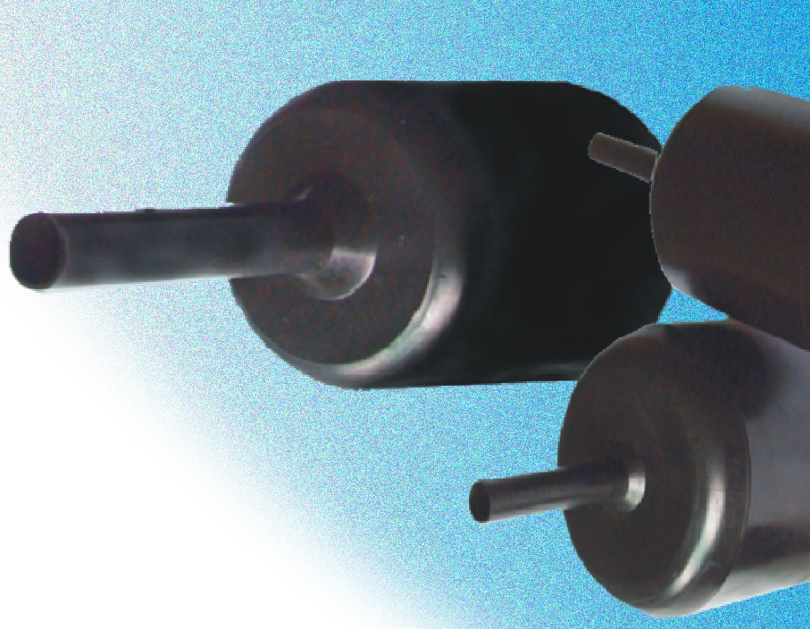
Wires

For tight fitting, heat-shrinkable anode cap provides stress relief, moisture proofness, electrically insulated the end of the wire at the lead time exit point, it is the solution to the problem of premature wire failure due to loss of the wire to wire termination.

Working temperature: -55°C ~ 100°C

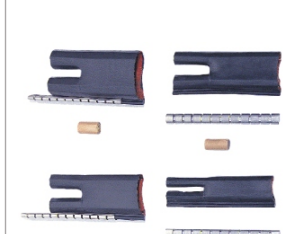
Pre-temperature: Start at 100°C,

shrink totally at 130°C



Technical Data

Property	Test Method	Standard
Tensile strength	ASTM-D-2671	≥13MPa
Elongation at break	ASTM-D-2671	≥300%
Tensile strength after thermal aging	ASTM-D-2671 (120°C/168hrs)	≥11MPa
Elongation at break after thermal aging	ASTM-D-2671 (120°C/168hrs)	≥210%
Longitudinal shrinkage	UL 224	≤10%
Eccentricity	ASTM-D-2671	≤30%
Water absorption	ISO 62	≤0.1%
Volume resistance	IEC 93	≥1 × 10 ¹⁰
Dielectric strength	IEC243	≥20KV/n
Resistance to stress cracking	ASTM-D-1693 (50°C)	No crack
Resistance to fungus and decay	ISO 846	Pass



WRSKT 2-core Clip-on breakout

Main Material: polyolefin, stainless steel
Application: mostly used to provide sealing and protection for bifurcated cable, especially for the branch cable lapping on the main cable.



WRSJB Heat Shrinkable Joint Box

Material: Polyolefin
Voltage class: 1kv, 10kv, 35kv
Available Color: red, yellow, green, black



Silicone Rubber Protective Cover

Material: Silicone Rubber
Application: mainly applied to provide protection for various electrical connecting.



Y-type Heat Shrink Tubing

Woer- Mission Statement

To be the leading global manufacturer and marketer of heat shrink based systems and related products to electrical, mechanical and electronic insulation markets through excellence in customer service and identifying and solving application problems with differentiated product solutions.

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