

Single wall Heat shrink tubing

A-2(NH)

Shrink ratio 2:1



Features

1. Flexible, single wall
2. Zero halogen, polyolefin cross linking
3. Flame retardant for black
4. Low smoke generation
5. Continuous Operating Temp.: -55°C to 125°C (135°C also can be made specially)
6. Shrink Temperature: 84°C Min, Full shrink Temperature: 120°C min.
7. RoHS and UL compliant

Technical Data

Property	Test Method	Typical Performance
Tensile Strength	ASTM D2671	10.4MPa
Elongation (%)	ASTM D2671	200%
Tensile Strength after Heat aging	UL224 158°C X168hrs	≥7.3
Elongation after aging (%)	UL224 158°C X168hrs	≥100
Heat shock	UL224 225°C X4hrs	No dripping
		No cracking
Electrical		
Property	Test Method	Typical Performance
Dielectric Strength	IEC 243	≥15kv/mm
Volume Resistivity	IEC 93	≥1×10 ¹⁴ Ω·cm
Chemical		
Property	Test Method	Typical Performance
Corrosion Action	UL224 158°C	PASS
	X168hrs	
Copper Compatibility	UL224 158°C	PASS
	X168hrs	

Dimension

Size		As supplied	After Recovery(mm)		Standard Package
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	0.5	0.22	200
	1	1.5±0.2	0.65	0.28	200
1/16	1.5	2.0±0.2	0.85	0.32	200
3/32	2	2.5±0.2	1	0.35	200
	2.5	3.0±0.2	1.3	0.38	200
1/8.	3	3.5±0.2	1.5	0.4	200
	3.5	4.0±0.2	1.8	0.42	200
	4	4.5±0.2	2	0.45	200
3/16.	4.5	5.0±0.2	2.3	0.5	200
	5	5.5±0.2	2.5	0.55	100
1/4	6	6.5±0.2	3	0.55	100
5/16	7	7.5±0.3	3.5	0.55	100
	8	8.5±0.3	4	0.6	100
3/8	9	9.5±0.3	4.5	0.6	100
	10	10.5±0.3	5	0.6	100
	11	11.5±0.3	5.5	0.6	100
1/2	12	12.5±0.3	6	0.6	100
	13	13.5±0.3	6.5	0.65	100
	14	14.5±0.3	7	0.65	100
5/8	15	15.5±0.4	7.5	0.7	100
	16	16.5±0.4	8	0.7	100
	17	17.5±0.4	8.5	0.7	100
3/4	18	19.0±0.5	9	0.8	100
	20	21.0±0.5	10	0.8	100
	22	23.0±0.5	11	0.8	100
1	25	26.0±0.5	12.5	0.9	50
	28	29.0±0.5	14	0.9	50
1-1/4	30	31.5±1.0	15	0.95	50
	35	36.5±1.0	17.5	1	50
	40	41.5±1.0	20	1	50
	45	46.5±1.0	22.5	1	25
2	50	≥50	25	1	25
	60	≥60	31	1.3	25
	70	≥70	36	1.3	25
3	80	≥80	41	1.46	25
	90	≥90	46	1.46	25
4	100	≥100	51	1.46	25
5	120	≥120	61	1.56	25
6	150	≥150	76	1.56	25
7	180	≥180	91	1.56	25

Ultra thin wall, very flexible heat shrinkable tubing

A-2(TW)

Shrink ratio 2:1



Features

1. Ultra thin wall, very Flexible
2. Flame retardant
3. Continuous Operating Temperature:-55°C to 125°C
4. Shrink Temperature: 84°C Min, Full shrink Temperature: 120°C min
5. UL, RoHS Compliant

Technical Data

Property	Test Method	Typical Performance
Tensile Strength	ASTM D2671	10.4MPa
Elongation(%)	ASTM D2671	200%
Tensile Strength after	UL 224	≥7.3
Heat aging	158°C X 168hrs	
Elongation after Heat	UL 224	≥100
aging	158°C X 168hrs	
Heat shock	UL 224	NO dripping
	250°C X 4hrs	NO cracking

Electrical

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

Chemical

Property	Test Method	Typical Performance
Corrosion Action	UL 224	PASS
	158°C X 168hrs	
Copper Compatibility	UL 224	PASS
	158°C X 168hrs	

Dimension

Size		As supplied	After Recovery(mm)		Standard Package
Inch	mm	Internal diameter (mm)	Internal diameter Max(mm)	Wall thickness Nom(mm)	Spool Length
					m/spool
	1	1.4±0.2	0.65	0.2	200
1/16.	1.5	1.9±0.2	0.85	0.2	200
3/32	2	2.4±0.2	1	0.22	200
	2.5	2.9±0.2	1.3	0.25	200
1/8.	3	3.4±0.2	1.5	0.28	200
	3.5	3.9±0.2	1.8	0.28	200
	4	4.4±0.2	2	0.3	200
3/16.	4.5	4.9±0.2	2.3	0.3	200
	5	5.5±0.2	2.5	0.32	100
1/4.	6	6.5±0.2	3	0.32	100
5/16.	7	7.5±0.3	3.5	0.32	100
	8	8.5±0.3	4	0.32	100
3/8.	9	9.5±0.3	4.5	0.35	100
	10	10.5±0.3	5	0.35	100
	11	11.5±0.3	5.5	0.4	100
1/2.	12	12.5±0.3	6	0.4	100
	13	13.5±0.3	6.5	0.4	100
	14	14.5±0.3	7	0.4	100
5/8.	15	15.5±0.4	7.5	0.4	100
	16	16.5±0.4	8	0.4	100
	17	17.5±0.4	8.5	0.4	100
3/4.	18	18.5±0.4	9	0.42	100
	20	20.5±0.5	10	0.45	100
	22	22.5±0.5	11	0.45	100
1	25	25.5±0.5	12.5	0.45	50

Standard Color: Black, Red, Green, Yellow, Green, Clear, Blue, White, etc.

Yellow & green striped, flexible, flame-retardant polyolefin tubing**A-2(YG)**

Shrink ratio 2:1 and 3:1

**Features**

1. Flexible, flame-retardant.
2. Excellent physical, chemical and electrical properties and high reliability.
3. Operating temperature range: -55°C~125°C
4. Minimum full recovery temperature: 110°C
5. RoHS, UL compliant

Technical Data

Property	Test Method	Standard
Tensile strength(MPa)	ASTM D2671	≥10.4
Elongation(%)	ASTM D2671	≥200
Dielectric strength(kv/mm)	IEC 243	≥15
Volume resistivity(Ω cm)	IEC 93	≥1×10 ¹⁴
Tensile strength after aging	UL224 158°C ×168hr	≥7.3
Elongation after aging(%)	UL224 158°C ×168hr	≥100
Heat shock	UL224 250°C×4hr	No cracking
Flammability	UL224	Vw-1

Dimension

Size	As supplied(mm)		After Recovery(mm)		Standard Package
(mm)	Internal Diameter	Wall Thickness	Internal diameter	Wall thickness	(m/spool)
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	0.32±0.10	200
Φ2.0	2.5±0.3	0.18±0.08	≤1.00	0.4±0.10	200
Φ2.5	3.0±0.3	0.18±0.08	≤1.30	0.4±0.10	200
Φ3.0	3.5±0.4	0.18±0.08	≤1.50	0.4±0.10	200
Φ3.5	4.0±0.4	0.22±0.08	≤1.80	0.42±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	0.50±0.10	100
Φ5.0	5.5±0.4	0.25±0.08	≤2.50	0.55±0.10	100
Φ6.0	6.5±0.4	0.28±0.08	≤3.00	0.55±0.10	100
Φ7.0	7.5±0.4	0.28±0.08	≤3.50	0.55±0.10	100
Φ8.0	8.5±0.5	0.28±0.10	≤4.00	0.6±0.10	100
Φ9.0	9.5±0.5	0.30±0.10	≤4.50	0.6±0.10	100
Φ10	10.5±0.5	0.30±0.10	≤5.00	0.6±0.10	100
Φ11	11.5±0.5	0.30±0.10	≤5.50	0.6±0.10	100
Φ12	12.5±0.5	0.30±0.10	≤6.00	0.65±0.10	100
Φ13	13.5±0.5	0.35±0.12	≤6.50	0.65±0.10	100
Φ14	14.5±0.5	0.35±0.12	≤7.00	0.7±0.10	100
Φ15	15.5±0.6	0.40±0.12	≤7.50	0.75±0.10	100
Φ16	17.0±0.6	0.40±0.12	≤8.00	0.75±0.10	100
Φ17	17.5±0.6	0.40±0.12	≤8.50	0.75±0.10	100
Φ18	19.0±0.7	0.40±0.15	≤9.00	0.8±0.15	100
Φ20	22.0±0.7	0.40±0.15	≤10.00	0.82±0.15	100
Φ22	24.0±0.7	0.40±0.15	≤11.00	0.82±0.15	100
Φ25	26.0±0.7	0.55±0.15	≤12.50	1±0.15	50
Φ28	29.0±0.7	0.55±0.15	≤14.00	1±0.15	50
Φ30	31.5±0.7	0.55±0.15	≤15.00	1.05±0.15	50
Φ35	36.5±0.7	0.55±0.15	≤17.50	1.15±0.15	50
Φ40	41.5±0.7	0.55±0.15	≤20.00	1.20±0.15	50
Φ45	46.0±0.7	0.55±0.15	≤22.50	1.20±0.15	25
Φ50	51.0±0.7	0.55±0.15	≤25.00	1.20±0.15	25
Φ60	≥60	0.60±0.15	≤30.00	1.5±0.2	25
Φ70	≥70	0.65±0.15	≤35.00	1.6±0.2	25
Φ80	≥80	0.70±0.15	≤40.00	1.7±0.2	25
Φ90	≥90	0.75±0.15	≤45.00	1.9±0.2	25
Φ100	≥100	0.80±0.20	≤50.00	2.10±0.2	25
Φ120	≥120	0.85±0.20	≤60.00	2.20±0.2	25
Φ150	≥150	0.90±0.20	≤75.00	2.20±0.2	25
Φ180	≥180	0.95±0.30	≤90.00	2.30±0.2	25

Flame-retardant, high-shrink-ratio polyolefin tubing

A-3X

Shrink ratio 3:1

Features

1. Flexible, flame retardant, single wall
2. Resistant to common fluids and solvents
3. Continuous Operating Temp.: -55°C to 125 °C (135°C also can be made specially)
4. Shrink Temperature: 84°C Min, Full shrink Temperature: 120°C min.
5. RoHS, UL compliant

Dimensions

Size		As supplied	After Recovery(mm)		Standard Package
Inch	mm	Internal diameter Min (mm)	Internal diameter(mm)	Wall thickness(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

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

A-4X Flexible, flame-retardant, high-shrink-ratio polyolefin tubing

Shrink ratio 4:1



Features

1. Flexible, low flammability, soft, high flame retardant, standard Color: Black.
2. Shrink Temperature: 84°C Min, Full shrink Temperature: 120°C min.
3. Operating temperature range: -55°C-135°C
4. RoHS approval, AMS-DTL-23053/5, UL224.

Technical Data:

Features	Data	Test Method
Tensile Strength	≥10.4MPa	ASTM D 2671
Elongation(%)	≥200%	ASTM D 2671
Tensile strength after heat aging	≥7.3MPa	175°C×168h
Elongation after heat aging	≥100%	175°C×168h
Axial changing rate	-5%~+5%	ASTM D 2671
Flammability	VW-1	ASTM D 2671 C
Voltage(600V)	2500V, 1min	UL 224
Hot shock	No crack, no drip	UL 224, 250°C×4h
Dielectric strength	≥15kV/mm	ASTM D 149
Volume Resistivity	≥10 ¹⁴ Ω·cm	IEC 93

Dimension

ID(mm)	ID as supply	After recovery(mm)	
	(mm)	ID	Normal Wall thickness
Φ4/1	≥4.1	≤1.0	0.7
Φ6/1.5	≥6.1	≤1.5	0.78
Φ8/2	≥8.1	≤2.0	0.8
Φ10/2.5	≥10.1	≤2.5	0.85
Φ12/3	≥12.1	≤3.0	0.9
Φ16/4	≥16.1	≤4.0	1
Φ19.1/4.6	≥19.2	≤4.7	1.2
Φ25.4/6.5	≥25.5	≤6.3	1.25
Φ30/7.5	≥30.1	≤7.5	1.25
Φ38.1/9.5	≥38.2	≤9.5	1.3
Φ51/13	≥51.1	≤12.7	1.35

Non Slip Heat Shrink Tube

A-2(NS)

Shrink ratio 2:1



Feature:

1. Skid proof flower lined, fast shrinkage, and stable performance.
2. Shrinking temperature: 70°C min., and full recovery at 110°C min.
3. Operating temp.: -55°C~105°C
4. Non slip feature for handles and fishing tackles, etc.

Dimension

Size(mm)	As supplied(mm)		After recovery(mm)		Standard package (M/pcs)
	ID	Wall thickness	Max I.D.	Average. W.T.	
φ15	≥15	0.45±0.15	8	0.85±0.15	1.0
φ20	≥20	0.50±0.15	11	0.90±0.15	0.8/1.0/1.6
φ22	≥22	0.50±0.15	12.5	0.90±0.15	0.8/1.0/1.6
φ25	≥25	0.50±0.15	14.5	1.00±0.15	0.8/1.0/1.6
φ28	≥28	0.50±0.15	15.5	1.00±0.15	0.8/1.0/1.6
φ30	≥30	0.60±0.15	17.5	1.20±0.15	0.8/1.0/1.6
φ35	≥35	0.60±0.15	20.0	1.20±0.15	0.8/1.0/1.6
φ40	≥40	0.60±0.15	23.0	1.20±0.15	0.8/1.0/1.6
φ45	≥45	0.65±0.15	25.0	1.25±0.15	0.8/1.0/1.6
φ50	≥50	0.65±0.15	28.0	1.25±0.15	0.8/1.0/1.6

10KV to 35KV Busbar heat shrink tube

Model: BBHST



Made of cross-linking polyolefin
 High resistance to tracking, aging and erosion
 Used to offer insulation protection for busbar in switchgear and substation

Can be supplied in continuous length
 Continuous operation temperature: -45°C to 105°C

Shrink temperature: start at 110°C, and fully recovered at 130°C
 Color: yellow, red, green, blue, black

Technical Data

Property	Test Method	Standard Value
Operation Temperature	IEC 216	-45°C to 105°C
Tensile Strength	ASTM-D-2671	≥10MPa
Elongation at Break	ASTM-D-2671	≥400%
Tensile Strength after Aging	ASTM-D-2671	≥8MPa (130°C, 168 hrs)
Elongation at Break after Aging	ASTM-D-2671	≥320% (130°C, 168 hrs)
Dielectric Strength	IEC 60243	≥25kV/mm
Volume Resistivity	IEC 60093	≥1×10 ¹⁴ Ω·cm
Dielectric Constant	IEC 250	≤3.0
Longitudinal Shrinkage	ASTM-D-2671	≤10%
Eccentricity	ASTM-D-2671	≤30%
Water Absorption	ISO 62	≤0.5%
Flammability (Oxygen Index)	IEC 4589	≥28
Copper Corrosion	ASTM-D-2671	No corrosion (130°C, 168 hrs)
Cold Bend	ASTM-D-2671	No cracking (-40°C, 4 hrs)

Selection Table (10 kV heat shrink busbar sleeve)

Tube Diameter (mm)	Applicable Bus Bar(mm)		As Supplied(mm)		After Recovered(mm)		Packing (m/roll)
	Rectangular	Circular	ID(Min)	Wall Thickness	ID(Max)	Wall Thickness (±10%)	
15/8	15	12	15±0.8	1.20±0.30	≤8.0	2.10±0.30	25
20/10	20	15	20±0.8	1.20±0.30	≤10.0	2.10±0.30	25
25/13	25	18	25±0.8	1.20±0.30	≤12.5	2.10±0.30	25
30/15	30	20	30±0.8	1.20±0.30	≤15.0	2.10±0.30	25
40/20	40	30	40±1.0	1.20±0.30	≤20.0	2.30±0.30	25
50/25	50	35	50±2.0	1.20±0.30	≤25.0	2.30±0.30	25
60/30	60	45	60±3.0	1.20±0.30	≤30.0	2.30±0.30	25
65/33*	65	45	65±3.0	1.20±0.30	≤33.0	2.30±0.30	25
70/35	70	50	70±3.0	1.20±0.30	≤35.0	2.30±0.30	25
75/38*	75	50	75±3.0	1.20±0.30	≤38.0	2.30±0.30	25
80/40	80	55	80±3.0	1.20±0.30	≤40.0	2.30±0.30	25
85/43*	80	65	85±3.0	1.20±0.30	≤43.0	2.40±0.30	25
100/50	100	75	100±4.0	1.20±0.30	≤50.0	2.40±0.30	25
120/60	120	85	120±4.0	1.20±0.30	≤60.0	2.40±0.30	25
150/75	150	105	150±4.0	1.20±0.30	≤75.0	2.40±0.30	25
180/90	180	120	180±5.0	1.20±0.30	≤90.0	2.40±0.30	25
210/105*	210	140	210±5.0	1.20±0.40	≤105	2.40±0.30	20
230/115*	230	150	230±5.0	1.20±0.40	≤115	2.40±0.30	20
250/125*	250	180	250±5.0	1.20±0.40	≤125	2.40±0.30	20
300/150*	300	210	300±5.0	1.20±0.40	≤150	2.40±0.30	15

Selection Table (20 kV heat shrink busbar sleeve)

Tube Diameter (mm)	Applicable Bus Bar(mm)		As Supplied(mm)		After Recovered(mm)		Packing (m/roll)
	Rectangular	Circular	ID(Min)	Wall Thickness	ID(Max)	Wall Thickness (±10%)	
15/8	15	12	15±0.8	1.30±0.30	≤8.0	2.50±0.20	25
20/10	20	15	20±0.8	1.30±0.30	≤10.0	2.50±0.20	25
25/13	25	18	25±0.8	1.30±0.30	≤13.0	2.50±0.20	25
30/15	30	20	30±0.8	1.30±0.30	≤15.0	2.50±0.20	25
40/20	40	30	40±1.0	1.40±0.40	≤20.0	2.80±0.30	25
50/25	50	35	50±2.0	1.40±0.40	≤25.0	2.80±0.30	25
60/30	60	45	60±3.0	1.40±0.40	≤30.0	2.80±0.30	25
65/33*	65	45	65±3.0	1.40±0.40	≤33.0	2.80±0.30	25
70/35	70	50	70±3.0	1.40±0.40	≤35.0	2.80±0.30	25
75/38	75	50	75±3.0	1.40±0.40	≤38.0	2.80±0.30	25
80/40	80	55	80±3.0	1.40±0.40	≤40.0	2.80±0.30	25
85/43*	80	65	85±3.0	1.40±0.40	≤43.0	2.80±0.30	25
100/50	100	75	100±4.0	1.40±0.40	≤50.0	2.80±0.30	25
120/60	120	85	120±4.0	1.40±0.40	≤60.0	2.80±0.30	25
150/75	150	105	150±4.0	1.40±0.40	≤75.0	2.80±0.30	25
180/90	180	120	180±5.0	1.40±0.40	≤90.0	2.80±0.30	25
210/105*	210	140	210±5.0	1.40±0.40	≤105	2.80±0.30	20
230/115*	230	150	230±5.0	1.40±0.40	≤115	2.80±0.30	20

Selection Table (35 kV Heat Shrink Busbar Sleeve)

Tube Diameter (mm)	Applicable Bus Bar size(mm)	As Supplied(mm)		After Recovered(mm)		Packing (m/roll)
	Rectangular	ID(Min)	Wall Thickness	ID(Max)	Wall Thickness (±10%)	
15/8	15/12	15±1.0	1.90±0.50	≤8.0	4.00±0.30	15
20/10	20/15	20±1.0	1.90±0.50	≤10.0	4.00±0.30	15
30/15	30	30±1.0	1.90±0.50	≤15.0	4.00±0.30	15
35/18	30/40	35±1.0	1.90±0.50	≤18.0	4.00±0.30	15
40/20	40	40±1.0	1.90±0.50	≤20.0	4.00±0.30	15
50/25	50	50±2.0	1.90±0.50	≤25.0	4.00±0.30	15
60/30	60	60±3.0	1.90±0.50	≤30.0	4.00±0.30	15
65/33*	60/70	65±3.0	1.90±0.50	≤33.0	4.00±0.30	15
70/35	70	70±3.0	1.90±0.50	≤35.0	4.00±0.30	15
75/38*	70/80	75±3.0	1.90±0.50	≤38.0	4.00±0.30	15
80/40	80/100	80±3.0	1.90±0.50	≤40.0	4.00±0.30	15
100/50	100/120	100±4.0	1.90±0.50	≤50.0	4.00±0.30	15
120/60	150	120±4.0	1.90±0.50	≤60.0	4.00±0.30	15
150/75	180	150±4.0	1.90±0.50	≤75.0	4.00±0.30	15
180/90*	MAX.	180±5.0	1.90±0.50	≤90.0	4.00±0.30	15
210/105*	MAX.	210±5.0	1.90±0.50	≤105	4.00±0.30	15
230/115*	MAX.	230±5.0	1.90±0.50	≤115	4.00±0.30	15
250/125*	MAX.	250±5.0	1.90±0.50	≤125	4.00±0.30	15
300/150*	MAX.	300±5.0	1.90±0.50	≤150	4.00±0.30	15

***Note: Specifications with * numbers are not in stock, which need to produce specially.**

Dual Wall Adhesive-Lined Heat-Shrink Polyolefin Tubing

G-2X

Shrink ratio 2:1



Features

1. Longitudinal shrink ratio: $\leq +8\%$
2. Out jacket flame retardant, inner adhesive self-extinguished
3. Super sealing against water, moisture or other contaminants
4. Continuous operating temperature: $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$
5. Shrink temperature: 120°C
6. RoHS, UL compliant

Technical Data:

Test Item	Test Method	Test Result
Tensile Strength(Mpa)	ASTM D2671	≥ 10.4
Elongation%	ASTM D2671	≥ 300
Tensile Strength after Aging (Mpa)	UL 224 158 \times 168hr	≥ 7.3
Elongation after Aging%	UL 224 158 $^{\circ}\text{C} \times$ 168hr	≥ 200
Dielectric Strength	IEC 243	≥ 15
Volume Resistance($\Omega \cdot \text{cm}$)	ASTM D876	$\geq 10^{14}$

Hot Melting Adhesive Property

Test Item	Test Method	Test Result
Water absorption ratio:	ASTM-D570	$< 0.2\%$
Softing point	ASTM-E8	95°C
Strength of pearing (PE)	ASTM-D1000	120N/25m
Strength of pearing (AL)	ASTM-D1000	80N/25m

Dimension

Size		As supplied	After recovery			Standard Package
Inch	mm	Internal Diameter (mm)	Internal Diameter (mm)	Total Wall Thickness(m m)	Adhesive thickness (mm)	Spool Length m/spool
1/16	1.6	1.6	0.8	0.60±0.15	0.3±0.1	200
3/32	2.4	2.4	1.2	0.70±0.15	0.35±0.1	200
1/8	3.2	3.2	1.6	0.70±0.15	0.35±0.1	200
3/16	4.8	4.8	2.4	0.80±0.15	0.4±0.1	100
1/4	6.4	6.4	3.2	0.80±0.15	0.4±0.1	100
5/16	7.9	7.9	3.9	0.90±0.15	0.45±0.1	100
3/8	9.5	9.5	4.8	0.90±0.15	0.45±0.1	1.22
1/2	12.7	12.7	6.4	0.95±0.20	0.45±0.1	1.22
5/8	15.9	15.9	7.9	0.95±0.20	0.45±0.1	1.22
3/4	19.1	19.1	9.5	1.0±0.20	0.45±0.1	1.22
1	25.4	25.4	12.7	1.1±0.20	0.50±0.1	1.22
1 1/4	31.8	31.8	15	1.15±0.20	0.50±0.1	1.22
1 1/2	38.1	38.1	19	1.25±0.20	0.50±0.1	1.22
1 3/4	44.5	44.5	22	1.35±0.20	0.55±0.1	1.22
2	50.8	50.8	25.4	1.5±0.25	0.60±0.1	1.22

Standard Color: Black.

Red, Green, Yellow, Green, Clear, Blue, White color can be produced based on MOQ

Standard Packing:

Spool packing or 1.22m/Pcs, short cutting tubes are available based on requirement

Dual Wall Adhesive-Lined Heat-Shrink Polyolefin Tubing

G-3X

Shrink ratio 3:1



Features

1. Longitudinal shrink ratio: $\leq +8\%$
2. Out jacket flame retardant, inner adhesive self-extinguished
3. Super sealing against water, moisture or other contaminants
4. Continuous operating temperature: $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$
5. Shrink temperature: 120°C
6. RoHS, UL Compliant

Technical Data:

Test Item	Test Method	Test Result
Tensile Strength(Mpa)	ASTM D2671	≥ 10.4
Elongation%	ASTM D2671	≥ 300
Tensile Strength after Aging (Mpa)	UL 224 158×168hr	≥ 7.3
Elongation after Aging%	UL 224 158°C×168hr	≥ 200
Dielectric Strength	IEC 243	≥ 15
Volume Resistance(Ω .cm)	ASTM D876	$\geq 10^{14}\Omega$.cm

Hot Melting Adhesive Property

Test Item	Test Method	Test Result
Water absorption ratio:	ASTM-D570	$< 0.2\%$
Softing point	ASTM-E8	95°C
Strength of pearing(PE)	ASTM-D1000	120N/25m
Strength of pearing(AL)	ASTM-D1000	80N/25m

Dimensions

Size		As supplied	After recovery (mm)			Standard Package
Inch	mm	Internal Diameter (mm)	Internal Diameter	Total Wall Thickness	Wall Thickness of Adhesive	m/spool
1/8.	3.2	3.2	1	0.90±0.15	0.35±0.10	200
3/16	4.8	4.8	1.6	1.00±0.15	0.40±0.10	100
1/4	6.4	6.4	2.2	1.25±0.15	0.45±0.12	100
5/16	7.9	7.9	2.7	1.30±0.15	0.50±0.12	100
3/8	9.5	9.5	3.2	1.40±0.15	0.50±0.12	50
1/2	12.7	12.7	4.2	1.70±0.15	0.50±0.12	36.6
5/8	15	15	5.2	1.80±0.15	0.55±0.15	30.5
3/4	19.1	19.1	6.3	1.95±0.15	0.55±0.15	30.5
1	25.4	25.4	8.5	2.05±0.20	0.55±0.15	30.5
1- 1/4	30	30	10.2	2.20±0.20	0.60±0.15	24.4
1- 1/2	39	39	13.5	2.50±0.20	0.60±0.15	18.3
2	50	50	17	2.80±0.25	0.70±0.15	12.2
5/2	64	64	21	3.00±0.25	0.70±0.15	6.1
3	75	75	25	3.00±0.30	1.00±0.20	1.22
7/2	90	90	30	3.00±0.30	1.00±0.20	1.22
4	100	100	34	3.00±0.30	1.00±0.20	1.22
5	125	125	42	3.00±0.30	1.00±0.20	1.22

Standard Color: Black

Red, Green, Yellow, Green, Clear, Blue, White color can be produced based on MOQ

Standard Packing:

Spool packing or 1.22m/Pcs, short cutting tubes are available based on requirement

Dual Wall Adhesive-Lined Heat-Shrink Polyolefin Tubing

G-4X

Shrink ratio 4:1

Features

1. Longitudinal shrink ratio: $\leq +8\%$
2. Out jacket flame retardant, inner adhesive self-extinguished
3. Super sealing against water, moisture or other contaminants
4. Continuous operating temperature: $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$
5. Shrink temperature: 120°C
6. RoHS, UL Compliant

Dimensions

Size		As supplied	After recovery (mm)			Standard Package
Inch	mm	Internal Diameter(mm)	Internal Diameter	Total Wall Thickness	Wall Adhesive thickness of Adhesive	m/spool
5/32	4	4	1	1.1±0.15	0.4±0.15	200
1/4	6	6	1.5	1.5±0.15	0.5±0.15	100
5/16	8	8	2	1.7±0.15	0.5±0.15	50
1/2	12	12	3	2.0±0.15	0.6±0.15	1.22m/pc
5/8	16	16	4	2.3±0.25	0.6±0.15	1.22m/pc
25/32	20	20	5	2.6±0.25	0.6±0.15	1.22m/pc
1	24	24	6	3.0±0.30	0.7±0.15	1.22m/pc
3/2	32	32	8	3.0±0.30	0.7±0.15	1.22m/pc
2	52	52	13	3.3±0.30	0.7±0.15	1.22m/pc

Technical Data:

Property	Test Method	Standard
Tensile Strength(Mpa)	ASTM D2671	≥ 10.4
Elongation	ASTM D2671	≥ 300
Tensile Strength after Aging (Mpa.)	UL 224 158×168hr	≥ 7.3
Elongation after Aging (%)	UL 224 158°C×168hr	≥ 200
Dielectric Strength (kv/mm)	IEC 243	≥ 15
Volume Resistance ($\Omega \cdot \text{cm}$)	ASTM D876	$\geq 1 \times 10^{14}$

Hot Melting Adhesive Property

Property	Test Method	Standard
Water absorption ratio:	ASTM-D570	$< 0.2\%$
Softing point	ASTM-E8	95°C
Strength of pearing (PE)	ASTM-D1000	120N/25m
Strength of pearing (AL)	ASTM-D1000	80N/25m

High-Shrink-Ratio, Adhesive-Lined Semi rigid polyolefin Tubing

KHES-2000 (Tyco ES 2000 Equivalent)

Shrink ratio 4:1



Features:

1. Longitudinal shrink 8%
2. Out jacket flame retardant
3. Continuous operating temperature -45 to 125°C, shrink temperature: 120°C
4. RoHS, UL Compliant

Dimension

Size		As Supplied	After Recovery			Standard Package
Inch	mm	ID(mm)	ID(mm)	Total Wall thickness(mm)	Adhesive thickness	(m/pc)
2/13	4	4	0.95	1.2±0.15	0.5±0.15	1.22
1/4	6	6	1.27	1.3±0.15	0.56±0.15	1.22
5/16	8	8	1.65	1.65±0.15	0.76±0.15	1.22
1/2	12	12	2.41	2.0±0.15	1.02±0.15	1.22
3/4	18	18	4.45	2.5±0.15	1.37±0.15	1.22

Technical Data

Property	Test Method	Standard
Tensile Strength (MPa)	ASTM D2671	≥12
Elongation	ASTM D2671	≥300
Tensile Strength after aging (MPa)	UL224 158°C for 168hr	≥7.3
Elongation after aging (%)	UL224 158°C for 168hr	≥200
Dielectric strength (kv/mm)	IEC243	≥15
Volume resistivity (Ω.cm)	ASTM D876	≥1×10 ¹⁴

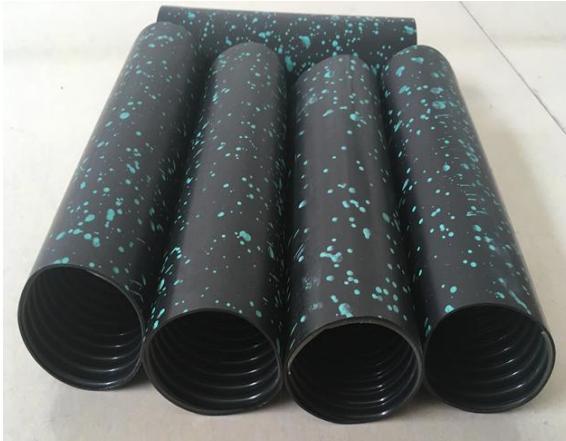
Hot Melt Adhesive Property

Property	Test Method	Standard
Water Absorption	ASTM D570	0.2%
Soft point	ASTM E8	95°C
Strength of pearing (PE)	ASTM D1000	120N/25mm
Strength of pearing(AL)	ASTM D1000	80N/25mm

Medium Wall Heat Shrinkable Tubing

With / without adhesive

KHA2-M Shrink ratio 3:1



Features:

1. Resistant to UV-radiation
2. High electrical insulation
3. Superior mechanical property
4. Minimum fully recovery temperature: 120°C

Technical Data

Property	Test Method	Typical Data
Operation temperature	IEC216	-55°C to 110°C
Tensile strength	ASTMD2671	≥14MPa
Tensile strength after aging (150°C/168hrs)	ASTMD2671	≥12MPa
Elongation break	ASTMD2671	≥400%
Elongation at break after aging (150°C/168hrs)	ASTMD2671	≥300%
Density	ASTMD792	1.05g/cm ³
Longitudinal shrinkage	UL224	0 to -10%
Dielectric strength	IEC243	≥20kv/mm
Volume resistance	IEC93	> 10 ¹⁴ Ω.cm
Eccentricity	ASTMD2671	<30%
Copper stability	ASTMD2671	Pass
Resistance to stress cracking (50°C)	ASTMD1693	No cracking
Water absorption(23°C/14days)	ISO62	<0.15%

Dimension

Normal size (mm)	As supplied(mm)		After Recovered (mm)	
	ID(Min.)	ID (Max.)	Wall thickness Min	
KHA2-M 8/2	8	2	1.7	
KHA2-M 12/3	12	3	2.0	
KHA2-M 16/5	16	5	2.2	
KHA2-M 19/5	19	5	2.5	
KHA2-M 22/6	22	6	2.5	
KHA2-M 28/6	28	6	2.5	
KHA2-M 33/8	33	8	2.5	
KHA2-M 40/12	40	12	2.5	
KHA2-M 55/16	55	16	2.7	
KHA2-M 65/19	65	19	2.8	
KHA2-M 75/22	75	22	3.0	
KHA2-M 85/25	85	25	3.0	
KHA2-M 95/25	95	25	3.0	
KHA2-M 115/34	115	34	3.0	
KHA2-M 140/42	140	42	3.0	
KHA2-M 160/50	160	50	3.0	
KHA2-M 180/58	180	58	3.0	
KHA2-M 205/65	205	65	3.0	
KHA2-M 235/65	235	65	3.0	
KHA2-M 265/75	265	75	3.0	
KHA2-M 300/85	300	85	3.0	
KHA2-M 350/100	350	100	3.0	

Thermoplastic Adhesive

Property	Test Method	Typical Data
Water absorption	ISO62	<0.2%
Softening point	ASTM D E28	85°C
Peel strength (PE)	DIN 30672	4N/cm
Copper stability	ASTMD2671	Non-corrosive
Resistance to fungus and decay	ISO846	Pass

Standard Color: Black

Red, Green, Yellow, Green, Clear, Blue color can be produced based on MOQ

Standard Packing:

1.22m/Pcs, 1M/Pcs, short cutting tubes are available based on requirement

Heavy Wall Heat Shrinkable Tubing

With / without adhesive

KHA3-H

Shrink ratio 3:1



Features:

1. Resistant to UV-radiation
2. High electrical insulation
3. Superior mechanical property
4. Minimum fully recovery temperature: 120°C

Technical Data

Property	Test Method	Typical Data
Operation temperature	IEC216	-55°C to 110°C
Tensile strength	ASTMD2671	≥ 14MPa
Tensile strength after aging (150°C/168hrs)	ASTMD2671	≥ 12MPa
Elongation at break	ASTMD2671	≥ 400%
Elongation at break after aging (150°C/168hrs)	ASTMD2671	≥ 300%
Density	ASTMD792	1.05g/cm ³
Longitudinal shrinkage	UL224	0 to -10%
Dielectric strength	IEC243	≥ 20kv/mm
Volume resistance	IEC93	> 10 ¹⁴ Ω .cm
Eccentricity	ASTMD2671	< 30%
Copper stability	ASTMD2671	Pass
Resistance to stress cracking (50°C)	ASTMD1693	No cracking
Water absorption(23°C/14days)	ISO62	< 0.15%

Dimension

Normal size (mm)	As supplied (mm) ID(Min.)	After recovered (mm) ID (Max.)	After recovered Wall thickness (mm)(Min.)
KHA3-H 9/3	9	3	1.8
KHA3-H 13/4	13	4	2.4
KHA3-H 22/6	22	6	2.7
KHA3-H 33/8	33	8	3.2
KHA3-H 40/12	40	12	4.1
KHA3-H 45/12	45	12	4.1
KHA3-H 55/16	55	16	4.1
KHA3-H 75/22	75	22	4.1
KHA3-H 85/25	85	25	4.3
KHA3-H 95/30	95	30	4.3
KHA3-H 105/30	105	30	4.3
KHA3-H 130/36	130	36	4.3
KHA3-H 160/50	160	50	4.3
KHA3-H 180/50	180	50	4.3
KHA3-H 200/60	200	60	4.3
KHA3-H 235/65	235	65	4.5
KHA3-H 265/75	265	75	4.5
KHA3-H 300/85	300	85	4.5
KHA3-H 350/100	350	100	4.5

Thermoplastic Adhesive

Property	Test Method	Typical Data
Water absorption	ISO62	<0.2%
Softening point	ASTM D E28	85°C
Peel strength (PE)	DIN 30672	4N/cm
Copper stability	ASTMD2671	Non-corrosive
Resistance to fungus and decay	ISO846	Pass

Standard Color: Black.

Red, Green, Yellow, Green, Clear, Blue color can be produced based on MOQ

Standard Packing:

1.22m/Pcs, 1M/Pcs, short cutting tubes are available based on requirement

KHA-6X Heavy wall heat shrink tube with adhesive

Shrink ratio: 6:1

Features

- Extra high shrink ratio crosslinked polyolefin
- Adhesive lined, Shrink ratio: 6:1
- Perfect sealing property
- Superior abrasion and impact resistance
- Extra thick wall, semi-rigid, UV and weather resistance

Min. full recovery temp.: 120°C, Operating temp: -55°C to +110°C

Property	Test Method	Typical data
Property of jacket		
Tensile strength	ASTM D 2671	≥12 Mpa
Ultimate elongation	ASTM D 2671	≥350%
Tensile strength after aging at 150°C, 168 Hrs	ASTM D 2671	>12 Mpa
Ultimate elongation after aging at 150 °C ,168	ASTM D 2671	>300%
Density	ASTM D 792	1.0 to 1.1 g/cm ³
Longitudinal shrinkage	UL 224	0 to -10%
Dielectric strength	IEC 243	≥18KV/mm
Volume resistance	IEC 93	≥10 ¹² Ω.cm
Copper stability	ASTM D 2671	Pass
Water absorption	ISO 62/23°C, 14days	<0.2%
Property of adhesive		
Water absorption	ISO 62	<0.2%
Softening point	ASTM E28	85±5°C
Peel strength (PE)	DIN 30672	4 N/cm
Resistance to fungus and decay	ISO 846	Pass

Dimension				
ID(mm)	As supplied	After recovered (mm)		Standard length
	D*(mm, Min.)	d*(Max)	w*(Min.)	
19/3.2	19.0	3.2	3.2	1000 - 1220mm
33/5.5	33.0	5.5	3.4	1000 - 1220mm
44.4/7.4	44.4	7.4	3.6	1000 - 1220mm
50.8/8.3	50.8	8.3	4.7	1000 - 1220mm
69.8/11.7	69.8	11.7	4.7	1000 - 1220mm
88.9/17.1	88.9	17.1	4.7	1000 - 1220mm
119.4/22.9	119.4	22.9	4.7	1000 - 1220mm
235/40	235	40.0	4.7	1000 - 1220mm

D*=Inner diameter as supplied d*= Inner diameter After recovered

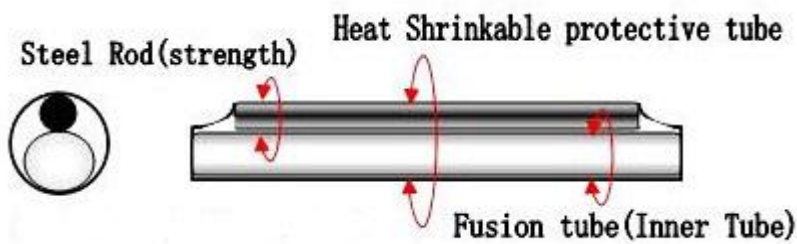
Optical fiber protection Heat shrink tube

Model: OFHST



A specially designed crosslinked Clear Heat Shrinkable tubing, with Clear fusion tubing liner, providing SS304 strength member and protection to fiber optical splices.

Model	OFHST
Type	Single fiber, Ribbon fiber
Material	Heat shrink tube, fusion tube, 304 steel rod
Length	35,40,45,50,60mm
Tubing ID	1.5,1.3,0.5mm
Steel rod diameter	1.5, 1.2,1.0mm
Minimum fully recovery temperature:	120 °C
Operating temperature	-45 °C to + 100 °C
Standard Color	Clear



Technical Data

Properties	Test Method	Typical Data
Tensile Strength	ASTM D2671	≥18 MPa
Ultimate Elongation	ASTM D2671	700%
Dielectric Strength	IEC 243	20 KV/mm
Dielectric Constant	IEC 243	2.5max
Longitudinal Change	ASTM D2671	0±5%
Density	ISO R1183D	0.94 g/cm ³

Dimension:

Type	OD after shrinking (mm)	Object Length(mm)	Fusion tube		Stainless steel needle (non-magnetic)		Packing (Pcs/bag)
			ID(mm)	Length(mm)	Diameter(mm)	Length(mm)	
Large Optic Fiber protection HST							
OFHST-60	3.1±0.1	60	1.4	60	1.5	55	100
OFHST-60B	2.9±0.1	60	1.3	60	1.5	56	100
OFHST-45	3.1±0.1	45	1.4	45	1.5	40	100
OFHST-40	3.1±0.1	40	1.4	40	1.5	36	100
OFHST-23	3.1±0.1	23	1.4	23	1.5	18	100
Standard Optic Fiber protection HST							
OFHST-61M	2.7±0.1	61	1.3	61	1.2	55	100
OFHST-60M	2.7±0.1	60	1.3	60	1.2	56	100
OFHST-45M	2.7±0.1	45	1.3	45	1.2	40	100
OFHST-40M	2.7±0.1	40	1.3	23	1.2	36	100
OFHST-30M	2.7±0.1	30	1.3	23	1.2	26	100
OFHST-25M	2.7±0.1	25	1.3	23	1.2	21	100
Small Optic Fiber protection HST							
OFHST-40T-S	1.5±0.1	40	0.5	40	0.7	40	100
OFHST-40TS	1.9±0.1	40	1.2	40	0.7	40	100
OFHST-60T	2.0±0.1	60	0.5	60	1	56	100
OFHST-40T	2.0±0.1	40	0.5	40	1	36	100
OFHST-60A	2.5±0.1	60	1.3	60	1	56	100
OFHST-40A	2.5±0.1	40	1.3	40	1	36	100
Mini Optic Fiber protection HST							
OFHST-40S	1.3±0.1	40	0.5	40	0.5	40	100
OFHST-25S	1.3±0.1	25	0.5	25	0.5	25	100
OFHST-25SS	1.2±0.1	25	0.4	25	0.5	25	100
OFHST-18S	1.3±0.1	18	0.5	18	0.5	18	100
OFHST-15S	1.3±0.1	15	0.5	15	0.5	15	100
OFHST-10S	1.3±0.1	10	0.5	10	0.5	10	100

Diesel-resistant, flexible, flame-retardant elastomer tubing

DR-150

Shrink ratio 2:1



Application

With resistance to aviation and diesel fuels, hydraulic fluids, and lubricating oils, DR-150 is ideal for applications require resistance to fuels, fluids and solvents. It is particularly suitable for protecting and bundling of high-performance cables and wiring harnesses.

Features

1. Outstanding fluid and heat resistance, Flexible, flame-retardant.
2. Abrasion resistance and excellent mechanical properties.
3. Operating temperature range: -75°C~150°C
4. Minimum full recovery temperature: 175°C
5. Conform to AMS-DTL-23053/16, RoHS

Dimension

Size	Inside diameter		Wall thickness	Standard length (m/spool)
	As supplied (min.)	After recovery (max.)	After recovery	
1/8	3.2 (0.125)	1.6 (0.062)	0.76±0.15 (0.030±0.006)	100
3/16	4.8 (0.187)	2.4 (0.093)	0.84±0.15 (0.033±0.006)	100
1/4	6.4 (0.250)	3.2 (0.125)	0.89±0.15 (0.035±0.006)	100
3/8	9.5 (0.375)	4.8 (0.187)	1.02±0.20 (0.040±0.008)	50
1/2	12.7 (0.500)	6.4 (0.250)	1.22±0.20 (0.048±0.008)	30
3/4	19.1 (0.750)	9.5 (0.375)	1.45±0.28 (0.057±0.011)	30
1	25.4 (1.000)	12.7 (0.500)	1.78±0.28 (0.070±0.011)	30
1 1/2	38.1 (1.500)	19.0 (0.750)	2.41±0.41 (0.095±0.016)	15
2	50.8 (2.000)	25.4 (1.000)	2.79±0.41 (0.110±0.016)	22

High-temperature, semi-rigid, PVDF tubing

Kynar-175

Shrink ratio 2:1



Application

Kynar-175 is semi-rigid, excellent flame retardant, cut-through resistance, chemical and solvent resistance and high-temperature performance. It is especially suitable for applications requiring high-temperature performance. It is also used for insulation and strain relief of soldered joints, identification and inspection of covered components.

Features

1. Tough, semi-rigid, thin-wall insulation.
2. High flame-resistance; high-temperature performance.
3. Outstanding chemical and solvent resistance.
4. Operating temperature range: -55°C~175°C
5. Minimum shrinking temperature: 155°C
6. Minimum full recovery temperature: 175°C
7. Conform to RoHS, UL 224, 150°C 600V VW-1, AMS-DTL-23053/8

Technical Data

	Property	Requirement	Test method	Typical value
Physical:	Tensile strength	34.5MPa min.	ASTM D 638	≥35MPa
	Elongation	150% min.	ASTM D 638	≥200%
	Heat shock 300°C, 4hrs	No cracking, dripping or flowing	ASTM D2671	Pass
	Low temperature flexibility -55°C, 4hrs	No cracking	ASTM D 2671	Pass
	Aging 250°C, 168hrs Elongation after aging	50%	ASTM D 638	≥50%
Electrical:	Dielectric voltage withstand	2500V, 60sec, no breakdown	ASTM D 2671	Pass
	Volume resistivity	10 ¹³ Ω·cm min.	ASTM D 876	≥10 ¹³ Ω·cm
Chemical:	Corrosion	No corrosion	ASTM D 2671	Pass
	Flammability	VW-1	UL224	Pass

Dimension

Size(inch)	Inside diameter		Wall thickness	Standard length(m)
	As supplied mm/ inch (min)	After recovery mm/ inch (max.)	After recovery mm/ inch	
3/64	1.2 (0.046)	0.6 (0.023)	0.25±0.05 (0.010±0.002)	1.2
1/16	1.6 (0.063)	0.8 (0.031)	0.25±0.05 (0.010±0.002)	1.2
3/32	2.4 (0.093)	1.2 (0.046)	0.25±0.05 (0.010±0.002)	1.2
1/8	3.2 (0.125)	1.6 (0.063)	0.25±0.05 (0.010±0.002)	1.2
3/16	4.8 (0.187)	2.4 (0.093)	0.25±0.05 (0.010±0.002)	1.2
1/4	6.4 (0.250)	3.2 (0.125)	0.30±0.08 (0.012±0.003)	1.2
3/8	9.5 (0.375)	4.8 (0.187)	0.30±0.08 (0.012±0.003)	1.2
1/2	12.7 (0.500)	6.4 (0.250)	0.30±0.08 (0.012±0.003)	1.2
3/4	19.1 (0.750)	9.5 (0.375)	0.43±0.08 (0.017±0.003)	1.2
1	25.4 (1.000)	12.7 (0.500)	0.48±0.08 (0.019±0.003)	1.2
1 1/2	38.1 (1.500)	19.1 (0.750)	0.51±0.08 (0.020±0.003)	1.2
2	50.8 (2.000)	25.4 (1.000)	0.58±0.08 (0.023±0.003)	1.2

Standard Color: Black, Clear

Standard Packing: Spool or 1.22m/Pcs

Medical Grade Kynar (PVDF) heat shrink tubes are available

Flexible, high-temperature, solvent-resistant Viton tubing

VITON-200

Shrink ratio 2:1



Application

VITON-200 is particularly used in applications require high temperature (200°C) resistance or in chemically exposed environments. It can be used in applications where additional protection against weather, ultraviolet radiation and ozone degradation is needed.

Features

1. Excellent resistance to high temperatures, fluids, solvents, corrosive chemicals
2. High flame-retardant.
3. Operating temperature range: -65°C~200°C
4. Minimum shrinking temperature: 150°C
5. Minimum full recovery temperature: 220°C
6. Conform to European RoHS, AMS-DTL-23053/13

Dimension

Size(inch)	Inside diameter		Wall thickness	Standard length (m/spool)
	As supplied mm/inch (min.)	After recovery mm/inch (max.)	After recovery (mm/inch)	
1/8	3.2 (0.125)	1.6 (0.062)	0.76±0.13 (0.030±0.005)	50
3/16	4.8 (0.187)	2.4 (0.093)	0.89±0.18 (0.035±0.007)	50
1/4	6.4 (0.250)	3.2 (0.125)	0.89±0.18 (0.035±0.007)	50
3/8	9.5 (0.375)	4.8 (0.187)	0.89±0.18 (0.035±0.007)	50
1/2	12.7 (0.500)	6.4 (0.250)	0.89±0.18 (0.035±0.007)	30
3/4	19.1 (0.750)	9.5 (0.375)	1.07±0.21 (0.042±0.008)	30
1	25.4 (1.000)	12.7 (0.500)	1.25±0.30 (0.049±0.011)	30
1 1/2	38.1 (1.500)	19.0 (0.750)	1.40±0.38 (0.055±0.015)	30
2	50.8 (2.000)	25.4 (1.000)	1.65±0.43 (0.055±0.017)	30

Heat Shrinkable Teflon Tubing

PTFE-260

Shrink ratio 1.7:1



Features

1. High performance for anti-corrosion (anti-acid/alkali/chemical/oil)
2. High voltage resistant (45kv/mm)
3. Operating Temperature:-80°C to 260°C
4. Standard Color: Clear, black, etc.
5. Shrink Temperature :> 300°C

Dimensions

SIZE		AS SUPPLIED(MM)	AFTER RECOVERY(MM)	
AWG	mm	INTERANAL DIAMETER	INTERANAL DIAMETER	WALL THICKNESS
30	0.86	≥0.86	≤0.38	0.25±0.04
28	0.97	≥0.97	≤0.46	0.25±0.04
26	1.17	≥1.17	≤0.56	0.25±0.04
24	1.27	≥1.27	≤0.64	0.25±0.04
22	1.55	≥1.55	≤0.80	0.25±0.04
20	1.95	≥1.95	≤0.97	0.30±0.05
18	2.35	≥2.35	≤1.17	0.30±0.05
16	2.95	≥2.95	≤1.45	0.30±0.05
14	3.65	≥3.65	≤1.82	0.30±0.05
12	4.55	≥4.55	≤2.26	0.30±0.05
10	5.65	≥5.65	≤2.80	0.30±0.05
8	7.05	≥7.05	≤3.55	0.40±0.06
6	8.75	≥8.75	≤4.40	0.40±0.06
4	10.95	≥10.95	≤5.45	0.40±0.06
2	13.75	≥13.75	≤6.90	0.40±0.06
0	17.15	≥17.15	≤8.56	0.40±0.06

Medical Grade PTFE and FEP heat shrink tubes are available

4:1 shrinking PTFE tube are also available.

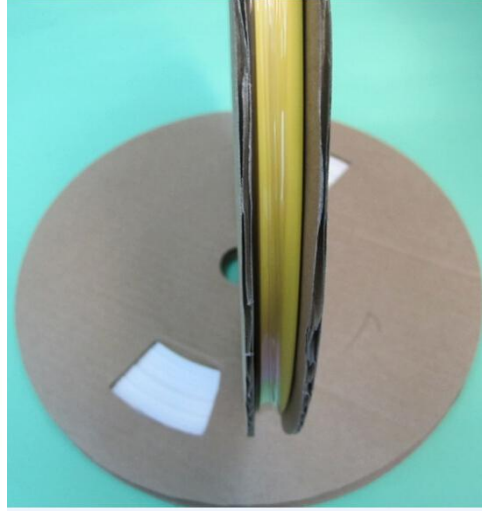
Heat-shrinkable identification marker sleeves

CTMS-125

Shrink ratio 3:1



Packing in Ladder Style



Spool Packing

Features

1. Flexible, highly flame-retardant polyolefin tube.
2. Sleeves meet the print performance requirements of MIL-M-81531.
3. Marks are permanent after printing, ideal marker for wires and cables
4. Operating temperature range: $-55^{\circ}\text{C}\sim 125^{\circ}\text{C}$
5. Minimum shrinking temperature: 70°C
6. Minimum full recovery temperature: 110°C
7. Conform to RoHS, UL.

Technical Data

Physical properties:

Tensile strength		10.3 MPa min.
Elongation		200% min.
Low temperature flexibility	(-55°C, 4hrs)	No cracking
Heat shock	(250°C, 4hrs)	No cracking, dripping, or flowing

Print performance:

UL224	50 rubs, legible
MIL-M-81531	50 rubs, legible
MIL-STD-202	30 strokes, legible

Electrical properties:

Dielectric voltage withstand	2.5KV, 60 sec	No breakdown
Dielectric strength		19.7KV/mm min.
Volume resistivity		10 ¹⁴ Ω·cm min.

Chemical properties:

Corrosion	No corrosion
Flammability AMS-DTL-23053/5	Average burn time is less than 1 minute

Fluid resistance: (23°C, 24 hrs) Followed by print performance tests of MIL-M-81531

- Hydraulic fluids (MIL-H-5606)
- JP-4 fuel (MIL-T-5624)
- Lubricating oil (MIL-L-7808)
- Lubricating oil (MIL-L-23699)
- Freeze resistance liquid (MIL-A-8243)

Dimensions

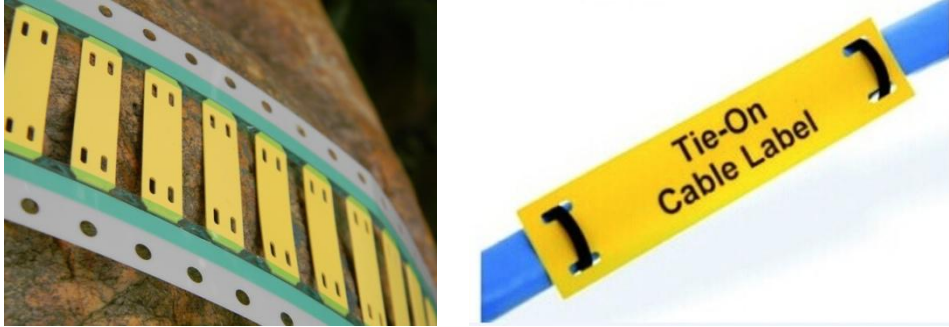
Size (inch)	Inside diameter (mm/inch)		Recommended use range(mm/inch)
	As supplied (min.)	After recovery (max.)	
3/32	2.4 (0.093)	0.8 (0.031)	0.9-2.0 (0.035-0.079)
1/8	3.2 (0.125)	1.0 (0.042)	1.1-2.7 (0.044-0.105)
3/16	4.8 (0.187)	1.6 (0.062)	1.8-4.1 (0.069-0.160)
1/4	6.4 (0.250)	2.1 (0.083)	2.3-5.5 (0.091-0.215)
3/8	9.5 (0.375)	3.2 (0.125)	3.5-8.0 (0.137-0.320)
1/2	12.7 (0.500)	4.2 (0.166)	4.7-10.8 (0.183-0.425)
3/4	19.1 (0.750)	6.35 (0.250)	7.0-16.3 (0.275-0.640)
1	25.4 (1.000)	8.5 (0.333)	9.3-21.6 (0.366-0.850)
1 1/2	38.1 (1.500)	19.1 (0.750)	21.0-33.0 (0.825-1.300)
2	50.8 (2.000)	25.4 (1.000)	27.0-48.0 (1.063-1.890)

Standard color: White, yellow

Polyolefin Cable Marker Tags

CMT-1

Low Fire Hazard Marker Tags



Application

The cable Marker Tag are made from zero halogen, low smoke, low toxicity, radiation cross-linked, UV stabilized polyolefin sheet, formed into punched organized cable markers on a paper carrier, They are used for identification of cables and wire bundles by computer-based printing onto markers, Markers are attached using cable ties, this marker tag are ideal for applications where limited fire hazard characteristics are necessary, can be used in wide variety, The marker tags remain legible even when exposed to abrasion, aggressive cleaning solvents, and military fuels and oils

Features

1. Permanent identification sleeves, computer-printable, using thermal transfer printer
2. Low smoke, and fluid, fuel, lube resistant, lightweight for aerospace applications
3. Quick Recovery for heat sensitive areas, for space flight, and Railway
4. Operating temperature rang:-40 to 125°C
5. Meet the performance requirements of SAE-ASM-DTL-23053/5 Class 1

Dimensions

Ordering Size	Marker Dimensions(WXH)		Printable Area(WXH)	
	(mm)	(inch)	(mm)	(inch)
45x10.4	45x10.4	1.8x0.4	25x10.4	1.0x0.4
70x10.4	70x10.4	2.75x0.4	50x10.4	2.0*0.4
70x20.3	70x20.3	2.75x0.8	50x20.3	2.0x0.8

Standard color: White, Yellow

Packing: 1000Pcs or 500Pcs per roll.

Cable Marker Tags with Cable tie slots

CMT-2



Application

CMT-2 Marker Tag is made of the environment-friendly polyolefin by means of bombardment and cross-linked of high energy electron bunch, marker tags are non-adhesive that can be used to identify large cables and wires bundles, such as to identify EMU for High-speed, subways, submarine and aerospace, marker tags are attached on large cables and wire bundles with cable ties and keep permanent identification.

Features

1. Side entry marker tags to big size cables and wire bundles retrofit and repair capability, without broken power circuit and run down the machines
2. Easy installation, only standard cable tie-wraps are needed to install
3. Highly flame –retardant, low smog density
4. Highly resistant to abrasion, mechanical abuses, fluids, lubricants and solvents.
5. Computer-printable, any characters and logo are easy to design
6. No melting at high temperature, no brittle in freezer.

CMT-2 Dimensions

NO.	Pack size (pcs/coil)	Marker height (mm)	Marker length (mm)	Printable range (mm)		Recommended use range (mm)
				high	length	
1	2000	10.4	45	6.4	25	5.08~12.7
2	2000	10.4	53	6.4	33	5.08~12.7
3	2000	10.4	64	6.4	44	5.08~12.7
4	2000	10.4	76	6.4	56	5.08~12.7
5	2000	10.4	90	6.4	70	5.08~12.7
6	2000	12	102	8	82	12.7~19.1
7	1500	15	45	11	25	12.7~19.1
8	1500	15	53	11	33	12.7~19.1
9	1500	15	64	11	44	12.7~19.1
10	1500	15	76	11	56	12.7~19.1
11	1500	15	90	11	70	12.7~19.1
12	1000	20.3	45	16.3	25	19.1~25.4
13	1000	20.3	53	16.3	33	19.1~25.4
14	1000	20.3	64	16.3	44	19.1~25.4
15	1000	20.3	76	16.3	56	19.1~25.4
16	1000	20.3	90	16.3	70	19.1~25.4
17	1000	25.4	45	21.4	25	25.4 and up
18	1000	25.4	53	21.4	33	25.4 and up
19	1000	25.4	64	21.4	44	25.4 and up
20	1000	25.4	76	21.4	56	25.4 and up
21	1000	25.4	90	21.4	70	25.4 and up

CMT-2 Physic and chemical electronic performance

Property	States	Quota	Test method
Tensile strength (MPa)	unaged	≥10.3MPa	ASTM D2671
	Heat-aged	≥6.9MPa	
Ultimate elongation (%)	unaged	≥200%	
	Heat-aged	≥100%	
Voltage withstand(V)	unaged	2500 V,60s,Pass	UL224
Dielectric strength (MV/m)	unaged	≥19.7	ASTM D2671
	Heat-aged	≥15.8	
Volume resistivity (Ω-cm)		≥10 ¹⁴	ASTM D2671
Water absorption(%)	Unaged	≤1.0	ASTM D 570
Corrosion	Unaged	Pass	UL 224
Heat shock	Unaged	No flowing or dripping	UL 224
Low temperature flexibility	Unaged	No cracks	UL 224
Flammability	unaged	S3	DIN 5510-2

Standard Color: Yellow, White and Other colors

Stainless steel Cable Marker Tags

SSCMT



Application

Identify pipes, conduit, valves, cables and equipment in petrochemical plants, pulp and paper mills, refineries, offshore oil rigs and other harsh environments, all marker tags can be custom marked by cable tie with one or two computer controlling systems to provide permanent identification

Features

- 1. Resisting to corrosion, abrasion and radiation.
- 2. Work Temp.: -80°C to 538°C
- 3. Stainless steel 304,316 or copper material

Dimensions

Part No.	Tag Length(mm)	Tag Width(mm)	Thickness(mm)
SSMT-1	90	10	0.4
SSMT-2	90	20	0.4
SSMT-3	50	26	0.4
SSMT-4	70	12	0.4

Other special size or shapes are available up on request.

Heat Shrinkable Cable End Caps with Spiral Adhesive Coating

Moulded Parts- CEC



1) Applications

CEC offers an economical sealing at the end of power cable with a completely watertight seal. The internal surface of the end cap has a layer of spiral coated hot melt adhesive, which retains its flexible properties after recovery. The cap is recommended for application both in open air and on underground power distribution cables.

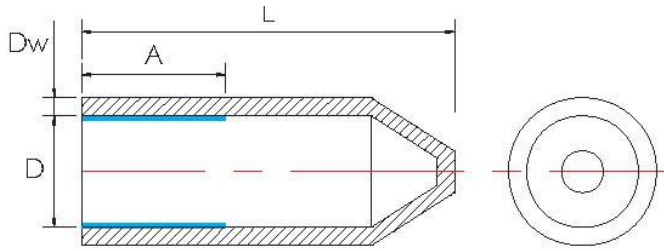
2) Features

Offering protection against oxidation, Ozone, UV-radiation
 Coated with hot melt adhesive to ensure environment seal
 Easily to fit into the cable end

Minimum fully shrink temperature: 120°C

3) Technical Data

Property	Test Method	Typical Data
Operating temperature	IEC 216	-55 to +110 °C
Tensile strength	ASTM D 638	>14MPa
Elongation at break	ASTM D 638	>400%
Density	ASTM D 792	1.05
Elongation at break after aging	150 /168hrs.°C	>300%
Dielectric strength	IEC 243	>15kV/mm
Volume resistance	IEC 93	>10 ¹⁴ Ω. cm



A-spiral hot melt adhesive

4) Product Size

Sizes(mm)	ID before Shrink (Min.mm) D	ID after shrink (Max.mm) D	After shrinking Length A(+/-10%,mm)	After shrinking Total Length L (+/-10%,mm)	After shrink Thickness Dw (mm)	Fit for Cable Dia. (mm)
CEC-12/4	12	4	15	40	2.6	4-10.
CEC-14/5	14	5	18	45	2.2	5-12.
CEC-20/6	20	6	25	55	2.8	6-16.
C EC-25/8.5	25	8.5	30	68	2.8	10-20.
CEC-35/16	35	16	35	83	3.3	17 -30
CEC-40/15	40	15	40	83	3.3	18- 32
CEC-55/26	55	26	50	103	3.5	28 48
CEC-75/36	75	36	55	120	4	45 -68
CEC-100/52	100	52	70	140	4	55 -90
CEC-120/60	120	60	70	150	4	65-110
CEC-145/60	145	60	70	150	4	70-130
CEC-160/82	160	82	70	150	4	90-150
CEC-200/90	200	90	70	160	4.2	100-180
Extended length end caps						
CEC-L-14/5	14	5	30	55	2.2	5-12
CEC-L-42/15	42	15	40	110	3.3	18-34
CEC-L-55/23	55	23	70	140	3.8	25-48
CEC-L-62/23	62	23	70	140	3.8	25-55
CEC-L-75/32	75	32	70	150	4.0	40-68
CEC-XL-75/36	75	36	70	170	4.2	45-68
CEC-L-105/45	105	45	65	150	4.0	50-90

Heat shrink tube with valve are available base on requirement.

CBO-2 Low voltage 2 cores cable breakout



Features:

Made from radiation cross-linked polyolefin, and suitable for applications up to 1KV, the properties of electrical insulation, UV resistant and water proof made CBO-2 widely used in electric power industry to provide insulation and seal over the crutch of multi-core cables.

- Minimum shrink temperature: 110°C
- Minimum fully recovery temperature: 130°C
- Standard color: Black

Technical Data

Property	TEST Method	Typical Data
Operation temperature	IEC 216	-55°C to +110°C
Tensile strength	ASTM D 2671	13MPa (min.)
Tensile strength after thermal aging (120°C /168hrs.)	ASTM D 2671	10MPa (min.)
Elongation at break	ASTM D 2671	300% (min.)
Elongation at break after thermal aging (120°C/168hrs.)	ASTM D 2671	250% (min.)
Dielectric strength	IEC 243	15kv/mm (min.)
Volume resistance	IEC 93	10 ¹³ Ω.cm (min.)
Water absorption	ISO 62	1% (max.)

Product Dimensions

Order Ref. No.	Base Diameter (mm)		Finger Diameter (mm)		Recovered length ± 10%(mm)		Recovered wall ± 10%	
	As Supplied (min.)	After Recovered (max.)	As Supplied (min.)	After Recovered (max.)	Total Length	Finger Length	Base (mm)	Finger (mm)
CBO -22/8	22	8	9	3.5	55	18	2.2	1.8
CBO -30/12	30	12	14	4.5	93	23	2.6	2.2
CBO -40/16	40	16	15	5.0	125	35	2.1	2.1
CBO -60/23	60	23	25	7.5	118	29	2.6	2.6
CBO -60/23L	60	23	25	7.5	155	45	2.6	2.6
CBO -90/60	90	60	30	8.5	190	50	3.0	3.0
CBO -150/90	150	90	20	6.5	150	70	3.0	3.0

CBO-3 Low Voltage 3 Cores Cable Breakout



Features/Applications

Made from radiation cross-linked polyolefin, and suitable for applications up to 1KV. The properties of electrically insulating, UV resistant and water proof make CBO-3 widely used in electric power industry to provide insulation and sealing over the crutch of multi-core cables.

- Minimum shrink temperature: 110°C
- Minimum fully recovery temperature: 130°C
- Standard color: Black

Technical Data

Property	Test Method	Typical Data
Operating temperature	IEC 216	-55°C to +110°C
Tensile strength	ASTM D 2671	13MPa(min.)
Tensile strength after thermal aging(120°C/168hrs.)	ASTM D 2671	10Mpa(min.)
Elongation at break	ASTM D 2671	300% (min.)
Elongation at break after thermal aging (120°C/168hrs.)	ASTM D 2671	250% (min.)
Dielectric strength	IEC 243	15kv/mm(min.)
Volume resistance	IEC 93	10 ¹³ Ω.cm(min.)
Water absorption	ISO 62	1% (max.)

Products Dimensions

Order No.	Ref.	Base Diameter (mm)		Finger Diameter (mm)		Recovered length ± 10%(mm)		Recovered wall ± 10%	
		As Supplied (min.)	After Recovered (max.)	As Supplied (min.)	After Recovered (max.)	Total Length	Finger Length	Base (mm)	Finger (mm)
CBO	-38/16	38	16	15	4.5	110	35	2.1	2.1
CBO	-60/25	60	25	25	8.0	165	50	3.0	2.5
CBO	-80/38	80	38	35	11.0	185	55	3.5	3.5
CBO	-110/50	110	50	46	17.5	250	65	4.0	4.0
CBO	-125/57	125	57	55	20.0	260	75	4.0	4.0
CBO	-140/70	140	70	62	26.0	280	75	4.0	4.0
CBO	-170/77	170	77	75	28.0	280	80	4.0	4.0
Extender 3 core breakouts									
CBO L	-40/16L	40	16	15	4.5	125	35	2.1	2.1
CBO L	-60/24L	60	24	25	8.0	180	45	3.2	2.8
CBO L	-80/38L	80	38	35	11.0	215	57	4.0	4.0

CBO-4 Low Voltage 4 Cores Cable Breakout



Features/Applications

Made from radiation cross-linked polyolefin, and suitable to applications up to 1KV. The properties of electrical insulation, UV resistant and water proof make it widely used in electric power industry to provide insulation and seal over the crutch of multi-core cables.

Minimum shrink temperature:110°C

Minimum fully recovery temperature:130°C

Standard color: Black

Technical Data

Property	Test Method	Typical Data
Operation temperature	IEC216	-55°C TO +110°C
Tensile strength	ASTMD2671	13Mpa(min.)
Tensile strength after thermal aging(120°C/168hrs.)	ASTMD2671	10Mpa(min.)
Elongation at break	ASTMD2671	300% (min.)
Elongation at break after thermal aging (120°C/168hrs.)	ASTMD2671	250% (min.)
Dielectric strength	IEC243	15kv/mm(min.)
Volume resistance	IEC93	10 ¹³ Ω . cm
Water absorption	ISO62	1% (max.)

Products Dimensions

Order No.	Ref.	Base Diameter (mm)		Finger Diameter (mm)		Recovered length ± 10%(mm)		Recovered wall ± 10%	
		As Supplied (min.)	After Recovered (max.)	As Supplied (min.)	After Recovered (max.)	Total Length	Finger Length	Base (mm)	Finger (mm)
CBO 40/15		40	15	14	3.5	105	26	2.2	2.0
CBO 55/21		55	21	20	5.0	150	40	3.1	2.6
CBO 65/26		65	26	26	7.0	175	45	3.3	2.9
CBO 75/26		75	26	28	7.0	175	45	3.3	2.9
CBO 82/37		82	37	30	9.0	190	60	4.0	3.0
CBO 90/37		90	37	32	9.0	190	60	4.0	3.0
CBO-100/47		100	47	38	12.0	198	58	4.0	3.0
CBO-125/52		125	52	52	15.0	240	75	4.0	4.0
CBO-160/70		160	70	64	19.0	260	75	4.0	4.0

CBO-5 Low Voltage 5 Cores Cable Breakout



Features/Applications

Made from radiation cross-linked polyolefin, and suitable to applications up to 1KV. The properties of electrical insulation, UV resistant and weather proof make it widely used in electric power industry to provide insulation and seal over the crutch of multi-core cables.

Minimum shrink temperature:110°C

Minimum fully recovery temperature:130°C

Standard color: Black

Technical Data

Property	Test Method	Typical Data
Operation temperature	IEC216	-55°C TO +110°C
Tensile strength	ASTMD2671	13Mpa(min.)
Tensile strength after thermal aging(120°C/168hrs.)	ASTMD2671	10Mpa(min.)
Elongation at break	ASTMD2671	300% (min.)
Elongation at break after thermal aging (120°C/168hrs.)	ASTMD2671	250% (min.)
Dielectric strength	IEC243	15kv/mm(min.)
Volume resistance	IEC93	10 ¹³ Ω . cm
Water absorption	ISO62	1% (max.)

Products Dimensions

Order No.	Ref.	Base Diameter (mm)		Finger Diameter (mm)		Recovered length ± 10%(mm)		Recovered wall± 10%	
		As Supplied (min.)	After Recovered (max.)	As Supplied (min.)	After Recovered (max.)	Total Length	Finger Length	Base (mm)	Finger (mm)
CBO-40/19		40	19	13	4	98	25	2.5	2.0
CBO-55/24		55	24	18	5	155	40	3.2	2.6
CBO-80/33		80	33	26	8	175	53	3.0	2.8
CBO 100/42		100	42	34	10	190	60	3.0	3.0

6 cores cable breakout are available

Heat-shrinkable Wraparound Sleeves for Cable Repair

Model: CRS



CRS Wraparound sleeve is mainly used for repairing outer/inner sheath/core damages on a HV cable and LV cable. It is made from cross-linked polyolefin which equals or exceeds the material properties of the original cable jacket. They can also be used for protecting against corrosion on metallic parts of the cable that are exposed to the outside.

Tube closed with a flexible stainless-steel locking channel. Sleeve length is unlimited because of special production process. And the sleeve can be cut to suit short application requirements. Used for general re-jacketing and sealing applications, protection of damaged cable or repair of cable joints.

Features:

Material: cross-linked polyolefin, inner coated with hot-melt adhesive

Standard color: black

Operating temperature: -40~+65°C

Shrink temperature: 200°C

Highlights: easy operation, wide range of selection, fit every occasion, excellent water repellency

Specification:

ID/ID-Length	Supply Size(mm)	Diameter after Shrunk(mm)	Fit For Cable's diameter (mm)
30/8-450	30	8	9~18
40/11-550	40	11	13~22
50/15-600	50	15	18~40
60/18-700	60	18	20~50
70/22-820	70	22	25~60
80/22-820	80	22	25~70
90/25-900	90	25	28~80
100/25-900	100	25	28~90
110/30-900	110	30	35~100
135/40-1000	135	40	43~110
150/45-1000	150	45	50~130
160/50-1000	160	50	55~150
180/60-1000	180	60	70~160
200/65-1000	200	65	90~180
220/65-1000	220	65	90~200
240/65-1000	240	65	100~220

Length:250mm,500mm,750mm,1000mm,1200mm Made according to your requirements.

Technical Data

Property	Test Method	Typical Data
Tensile strength	ASTM D2671	≥ 17MPa
Tensile strength after aging	ASTM D2671	≥ 14MPa
Elongation at break	ASTM D2671	≥ 350%
Elongation at break after aging	ASTM D2671/150°C, 168hrs	≥ 300%
Density	ASTM D792	0.94g/cm ³
Longitudinal shrinkage	UL224	< 5%
Dielectric strength	IEC243	≥ 36kV/mm
Volume resistivity	IEC93	≥ 10 ¹⁴ Ω · cm
Copper stability	ASTM D2671	Pass
Water absorptive	ISO 62/23°C, 14days	< 0.15%
Low Temperature Flexibility	ASTM D2671	No cracking
Resistance to fungus and decay	ISO 846	Pass

100PCS Black Heat shrink tube kits



1. Flexible, 2:1 shrinking, without adhesive
2. Zero halogen, polyolefin cross linking
3. Flame retardant
4. Low smoke generation if burning
5. Continuous Operating Temperature: -45°C to 125°C
6. Shrink Temperature:120°C
7. RoHS and Sony compliant

Detail Information of 100 pcs Kits (made from heat shrink tube model A-2(NH)).

30pcs- φ1.5 x 100mm Black/30pcs- φ2.5 x 100mm Black
 20pcs- φ4.0 x 100mm Black/10pcs- φ6.0 x 100mm Black
 6pcs- φ10.0 x 100mm Black/4pcs φ13.0 x 100mm Black

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280PCS Type-A Colorful Heat shrink tube kits, made from heat shrink tube model A-2(NH)



ID(mm)	Color	Total(Pcs)	Cuting length(mm)
1.0	Yellow	40	45
2.0	Blue	40	45
2.0	Black	40	45
3.0	Green	30	45
4.0	Red	25	45
4.0	Black	25	45
5.0	Black	20	45
6.0	Yellow	20	45
8.0	Red	10	45
10	Green	10	45
10	Blue	10	45
10	Black	10	45

130 pcs Dual Wall Adhesive Heat Shrink Tubing kit



3:1 shrinking, polyolefin with adhesive inner layer

Operating Temperature:-55°C to 125°C, shrinkage Temp:120°C

Tensile strength: 10.4Mpa, Dielectric strength: 15Kv / mm

Flammability: Flame retardant

Package Contents(Special kits can be made based on your detail requirement)

45pcs ϕ 3/32" + 35pcs ϕ 1/8", cutting length:89mm

20pcs ϕ 3/16" + 15pcs ϕ 1/4", cutting length:89mm

8pcs ϕ 3/8" + 7pcs 3.5" ϕ 1/2", cutting length:89mm

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120Pcs Heat shrink Solder sleeve Kit



There are several different 120pcs kits, the follow two are the example:

1) Red 40pcs, Blue 40pcs, White 30 pcs Yellow 10Pcs

2) White 20,Red 40,Blue 40,Yellow 20

50pcs kit, 100pcs kit, 110 pcs kit, 150 pcs kit, and 240pcs kit are available

EPDM Cold Shrink Tube

CST



Application

Made of EPDM rubber

Can meet a variety of configuration requirements

Provide sealing protection over multi-core cable ends

Used to seal cable during installation or storage, protecting cable ends against

Features

1. Simple and fast installation, easily removed, no tools required.
2. Size ranges from 20mm – 150mm.
3. Sealing tight, high rebound even after prolonged years of aging and exposure.
4. No mastic or tape required.
5. No torches or heat required.
6. Resists to fungus, water, acids and alkalis and ozone.

Dimensions

Size	Application Range (mm/inch)	Length after Relaxed (mm/inch)	Color
Φ20	8~15/0.30~0.59	152/6	Black
Φ25	10~20/0.39~0.79	203~280/8~11	Black
Φ35	14~30/0.55~1.18	229~280/9~11	Black
Φ40	17.5~33/0.69~1.30	152~457/6~18	Black
Φ53	25~46/0.98~1.81	152~457/6~18	Black
Φ70	32~63/1.26~2.48	152~457/6~18	Black
Φ104	43~94/1.69~3.70	229/9	Black
Φ125	46~114/1.81~4.49	229/9	Black
Φ150	55-135/2.17~5.31	457/18	Black
Cold Shrink Tube of High Shrinkage Ratio EPDM			
Size	Application Range (mm/inch)	Length after Relaxed (mm/inch)	Color
Φ35	12.5~30/0.49~1.18	229~279/9~11	Black
Φ40	14~33/0.55~1.30	152~406/6~16	Black
Φ53	19~46/0.75~1.81	152~457/6~18	Black
Φ60	20.5~51/0.81~2.01	254/10	Black
Φ70	25~63/0.98~2.48	152~457/6~18	Black
Φ80	27.4~70/1.08~2.75	325/13	Black

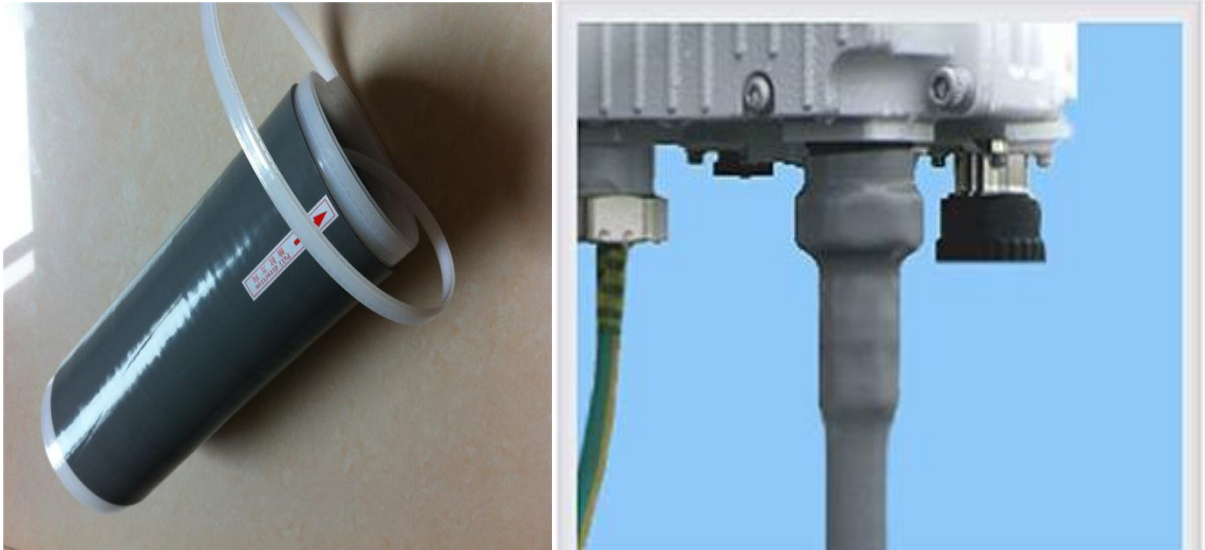
Technical Data

Property	Test Method	Standard Value
300% Modulus	ASTM D-412-75	4.2MPa
Ultimate Tensile	ASTM D-412-75	10.05MPa
Ultimate Elongation	ASTM D-412-75	600%
Tear strength	ASTM D-624C-73	28.3KN/m
Fungus Resistance	ASTM G-21	28 days exposure No Growth
Moisture Absorption 7 days@ 90°C in H2O		3.0% wt. Gain

Standard Color: Black, Gray

Silicone Rubber Cold Shrink Tube

SRCST



Features

1. Made of liquid silicone rubber
2. Offering good mechanical, insulation and sealing protection
3. Fit for wide range of cable sizes
4. For indoor and outdoor applications
5. Simple and fast installation

Technical Data

Property	Test Method	Unit	Typical value
Color			Gray/Black
Density	GB/T1033-2008	g/cm ³	1.11
Shore A Hardness	ASTM D2240		43
Tensile strength(single)	ASTM D412	Mpa	8.5 min.
Elongation at Break	ASTM D412	%	670
Tear Strength	ASTM D624	Kn/mm	25
Volume resistivity	IEC 60093	Ω.cm	9*10 ¹⁵
Protection performance	IEC60529		IP 67
Ozone Aging	ISO 1431		No crack
Fungus Resistance	IEC60068		Grade 0

Dimensions

Tyco Model	Size	Fit for Cable OD(mm)	After full recovery Length(mm)
825-3.2	Φ25	7.3-21	81.3
825-7	Φ25	7.3-21	178
825-8	Φ25	7.3-21	203
828**-5	Φ28	6-25	125
828**-5.9	Φ28	6-25	150
835-7	Φ35	10.5-30	178
835-9	Φ35	10.5-30	229
835-10	Φ35	10.5-30	254
835-12	Φ35	10.5-30	305
840-5.5	Φ40	11.9-34	140
840-8	Φ40	11.9-34	203
840-9	Φ40	11.9-34	230
840-10	Φ40	11.9-34	254
840-12	Φ40	11.9-34	305
845-6	Φ45	13.5-39	152
845-7	Φ45	13.5-39	178
845-8	Φ45	13.5-39	203
845-10	Φ45	13.5-39	254
845-12	Φ45	13.5-39	305
853-6	Φ53	18.2-45	152
853-10	Φ53	18.2-45	254
853-12	Φ53	18.2-45	305
853-18	Φ53	18.2-45	457
870-5	Φ70	22.4-63	125
870-6	Φ70	22.4-63	152
870-10	Φ70	22.4-63	254
870-14	Φ70	22.4-63	355
870-18	Φ70	22.4-63	457
870-20	Φ70	22.4-63	508

Standard Color: Black, Gray

Many other sizes can be produced based on requirement.

KHAT Heat Shrink Anti-tracking Insulation Tube



Description:

Anti-tracking, UV resistant, red color
 Flame retardant and flexible
 Made of cross link polyolefin.
 Used in Medium voltage cable terminations up to 36 kV
 Protecting against accidental flashover, fully recovered temp.: 120°C

Technical Data

Property	Test Method	Standard Value
Operation Temperature	IEC 216	-45°C to 105°C
Tensile Strength	ASTM-D-2671	≥10MPa
Elongation at Break	ASTM-D-2671	≥400%
Tensile Strength after Aging	ASTM-D-2671	≥8MPa (130°C, 168 hrs)
Elongation at Break after Aging	ASTM-D-2671	≥320% (130°C, 168 hrs)
Dielectric Strength	IEC 60243	≥10kV/mm(2.5mm) min.
Tracking Resistance	ASTM-D-2303	Pass (3.75kV, 1 hr)
Volume Resistivity	IEC 60093	≥1×10 ¹² Ω·cm
Dielectric Constant	ASTM-D-150	≤3.0
Water Absorption	ISO 62	≤0.5%

Selection Table

Product No.	Inner Diameter		After Recovered Wall Thickness/mm(±10%)	Standard Length /mm
	As Supplied (Min)/mm	After Recovered(Max) /mm		
Cut Length Tube (with adhesive, round or oval tube)				
30/10	30	10	2.9	1000-1500
40/12	40	12	2.9	1000-1500
43/14	43	14	2.9	1000-1500
49/16	49	16	2.9	1000-1500
55/18	55	18	2.9	1000-1500
65/21	65	21	3.3	1000-1500
75/25	75	25	3.5	1000-1500
85/29	85	29	3.5	1000-1500
100/40	100	40	4.0	1000-1500
130/50	130	50	4.0	1000-1500
Continuous Length Tube(without adhesive, flat tube in spool)				m /Spool
19/6	19	6	2.5	30
30/10	30	10	2.9	30
38/12	38	12	2.9	30
40/16	40	16	2.9	30
49/16	49	16	2.9	30
55/18	55	18	2.9	30
65/21	65	21	3.3	30
75/25	75	25	3.5	30
85/29	85	29	3.5	30
100/40	100	40	4.0	0.5—1.5m
130/50	130	50	4.0	0.5—1.5m

Semi-conducting/insulation dual layer Heat Shrink Tube

DWSC Twin layer screened insulating composite tubing



DWSC is double layer heat shrink tube with inner layer made from insulation material to provide high insulation and external layer is made from semi-conductive materials to provide electric shielding, the tubing manufactured with special technology, which is suitable for applications in power cable joints up to 36kv.

Minimum shrink temperature: 100°C , Minimum fully recovery temperature: 130°C

Technical Data

Property	Test Method	Typical Data
Inner Layer		
Tensile strength	ASTM D2671	≥12MPa
Elongation at break	ASTM D2671	≥300%
Water absorption	ISO 62	<0.5%
Volume resistance	IEC 93	≥ 10 ¹⁴ Ω .cm
Dielectric strength	IEC 243	≥20kv/mm
Density	ASTM D257-98	1.1g/ cm ³
External Layer		
Tensile Strength	ASTM D638	≥14Mpa
Elongation at break	ASTM D638	≥300%
Water absorption	ISO 62	<0.5%
Volume resistance	IEC93	<10 ⁴ Ω .cm
Density	ASTM D257-98	1.2g/cm³

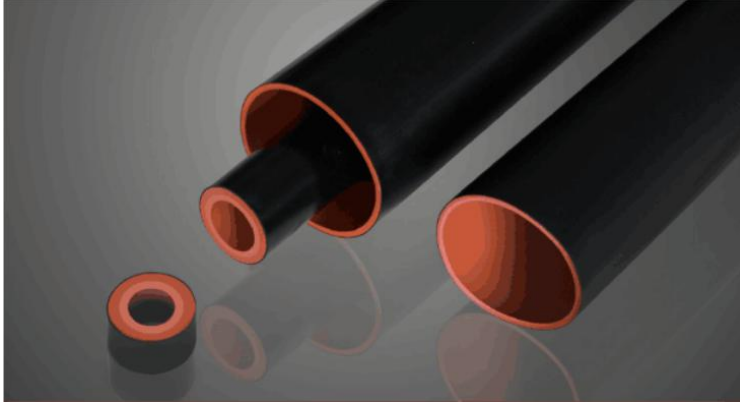
Product Dimensions

Normal Size(mm)	As supplied(mm)		After Recovered(mm)		Standard Length 1 to 1.2m
	ID(min.)	ID (Max.)	Total wall thickness (nom.)		
36/12	36	12	5.4		1 to 1.2m
45/15	45	15	5.4		1 to 1.2m
55/18	55	18	5.4		1 to 1.2m
65/22	65	22	6.0		1 to 1.2m
73/26	73	26	6.0		1 to 1.2m
85/30	85	30	6.0		1 to 1.2m
95/34	95	34	6.0		1 to 1.2m
100/38	100	38	6.0		1 to 1.2m
115/34	115	34	6.0		1 to 1.2m
120/45	120	45	6.1		1 to 1.2m

Medium Voltage Tubing

Triple layer screened insulating composite tubing

TLSC



Shelf life & storage:

Heat Shrink Product provided by Kehong has a over 5 year's shelf life from date

Of manufacture when stored in a humidity controlled environment (-10°C to

40°C and <75% relative humidity).

Ordering information:

Standard colors:

Black / Red.

Features:

Semi conductive / insulation /elastomer triple layers	Co-Extruded triple layer
Extra heavy wall of insulation layer	Shrink ratio 3:1
Min., full recovery temp.: 130°C	Application up to 36 KV

Typical technical performances:

Test Items	Test Method	Test Requirements
Insulation layer		
Tensile strength	ASTM D 2671	10MPa min.
Ultimate elongation	ASTM D 2671	200% min.
Volume absorption	IEC 93	10^{14} Ω .cm max.
Water absorption	ISO 62	0.5% max
Elastomer layer		
Tensile strength	ASTM D 2671	5MPa min.
Ultimate elongation	ASTM D 2671	500% min.
Volume absorption	IEC 93	10^{14} Ω .cm max.
Semi conductive layer		
Tensile strength	ASTM D 2671	12MPa min.
Ultimate elongation	ASTM D 2671	200% min.
Volume absorption	IEC 93	10^4 Ω .cm max.

Dimensions:



Size(mm)	As supplied (mm)	After recovered (mm)		Standard Length (m)
	D* (min.)	d* (Max.)	w (Min.)	
36/12	36	12	7.3	1.0-1.22
46/15	46	15	7.3	1.0-1.22
50/18	50	18	7.3	1.0-1.22
56/21	56	21	7.3	1.0-1.22
62/25	62	25	7.3	1.0-1.22
70/30	70	30	7.3	1.0-1.22
80/36	80	36	7.3	1.0-1.22
95/40	95	40	7.3	1.0-1.22
120/50	120	50	7.3	1.0-1.22

D*=Inner diameter as supplied

D*=Inner diameter after fully recovered

Medium Voltage Tubing
Stress control heat shrink tube for 11-24kv joints and terminations

SCHST

Features:

SCHST is made from radiation cross linked polyolefin material. The specially designed chemical formulation and carefully controlled manufacture technology effectively release the high electrical stress present at insulation screen in termination and joint of power cables from 11kv go 24kv.

- Electric stress relief, UV resistant, 3:1 shrinking
- Minimum shrink temperature:100°C
- Minimum fully recovery temperature:130°C

Technical Data

Property	Test Method	Typical Data
Tensile strength	ASTM D 638	≥10MPa
Elongation at break	ASTM D 638	≥300%
Heat shock(200°C/30mins.)	ESI09-13	No splitting, cracking, dropping or flowing
Dielectric constant	IEC 250	≥15
Volume resistance	IEC 93	≥10 ¹¹ Ω .cm
Low temp. flexibility	---	No Cracking after 4hrs. at -20°C max.
Water absorption	ISO 62	<1.0%
Longitudinal shrinkage	----	0+/-5%
Eccentricity	ASTM D 2671	<35%

Product Dimensions

Normal size(mm)	As supplied(mm)		After recovered(mm)		Standard length
	Inside diameter (min.)	diameter	Inside diameter (max.)	Wall thickness(min.)	
Continuous Length tubing					
SCHST 26/10	26		10	2.1	Flat, 15m/spool
SCHST 30/12	30		12	2.2	Flat, 15m/spool
SCHST 35/15	35		15	2.3	Flat, 15m/spool
SCHST 40/16	40		16	2.4	Flat, 15m/spool
SCHST 47/18	47		18	2.4	Flat, 15m/spool
SCHST 55/21	55		21	2.4	Flat, 15m/spool
SCHST 65/25	65		25	2.4	Flat, 15m/spool
Cut length Tubing					
SCHST 47/18	47		18	2.4	Round, 1m
SCHST 55/21	55		21	2.4	Round, 1m
SCHST 65/25	65		25	2.4	Round, 1m
SCHST 75/30	75		30	2.4	Round, 1m

36KV stress control tube are available up on requirement.