

Technical Details

Heat Shrink Cable Accessories

Our heat shrink cable termination and jointing system have been developed after intensive research.

Heat shrink cable termination and joint offer many significant advantage:

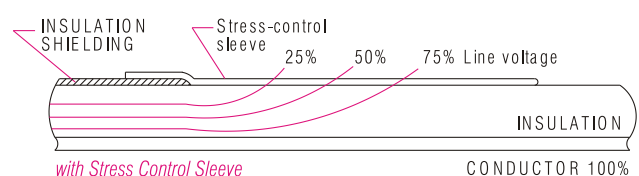
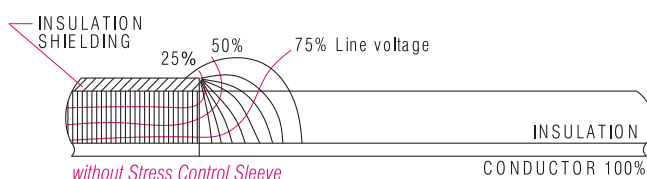
- Σ Light weight
- Σ Fits wide dimensional range and less inventory
- Σ Minimum completion/installation time
- Σ High mechanical strength
- Σ Superior weather resistant
- Σ Unlimited shelf life

Heat shrink Product range:

- Σ Indoor & Outdoor terminations & joints for XLPE/PVC cables upto 36kV
- Σ Bus bar insulating tubing
- Σ Special wrap around cable repair sleeve
- Σ Thin wall, medium wall and heavy wall tubing
- Σ Cable breakout, right angle boot, straight boot, cable end caps

Stress Control:

Selected heat shrinkable stress control sleeves have been used to control electrical stress at the end of insulation shielding. Stress control phenomenon is made understandable by the diagrams.



Heat shrink cable components testing and performance: All major components used for assembly of our termination and joint are tested as per the provision of various National and International standards according to internal quality program.

Tracking Resistant: Heat shrink terminations will not track even under the most adverse atmospheric pollution and highly polluted atmosphere.

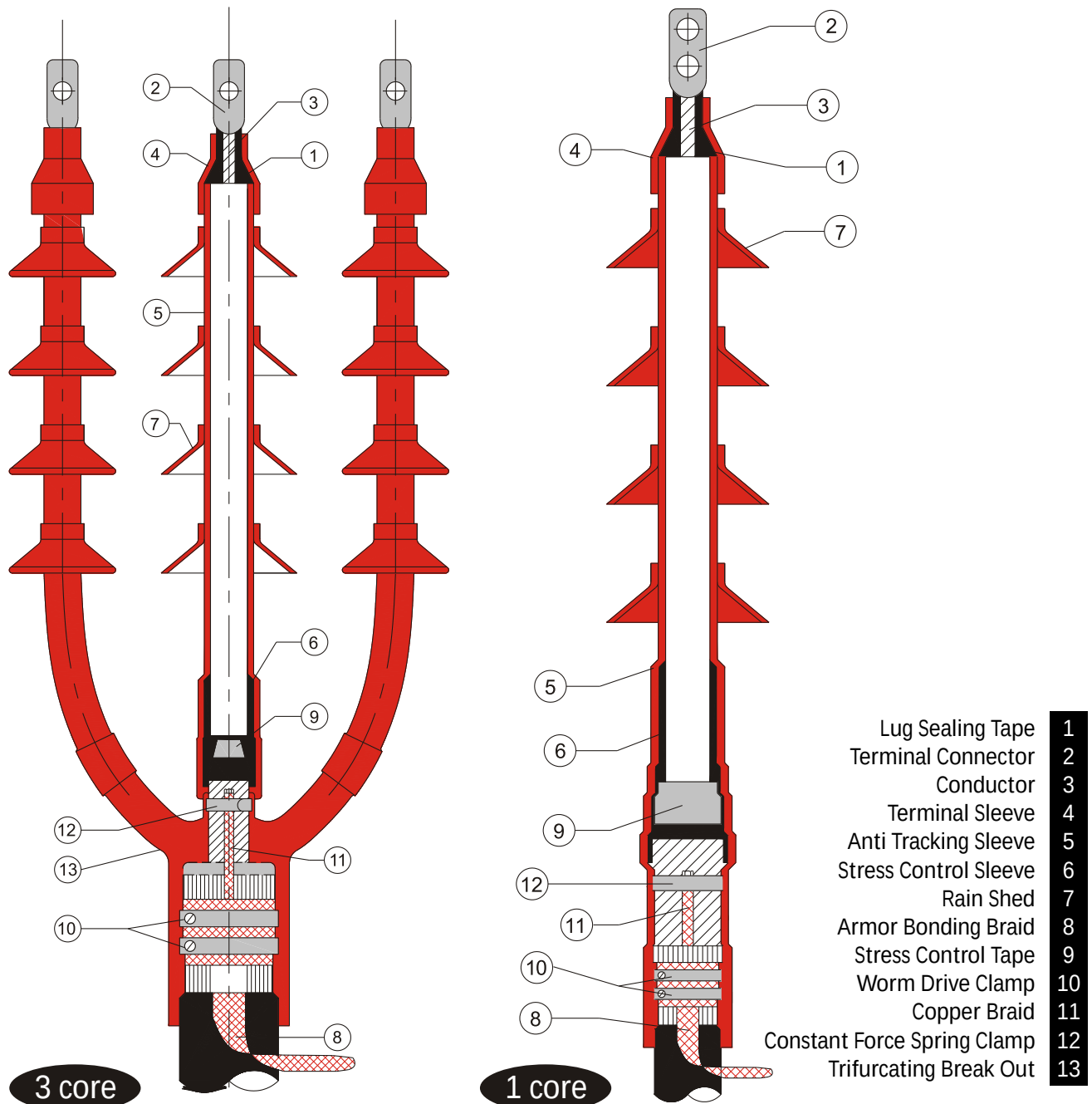
High Electrical Strength: The materials are proven to outperform basic insulation level of system and can withstand repeated flashover and higher impulse voltage levels.

UV, Ozone, SO₂ Resistant: Protective sleeves fully prevent termination and joint from UV degradation even when exposed to Ozone, SO₂ and other Industrial Pollutants.

Flame Retardance: All shrinkable materials have inherent flame resistance to oxygen index of 29

Heat Shrink Termination

Heat 1 core / 3 core XLPE cable from 11kV -36kV



All indoor termination are supplied without rain sheds

Heat Shrink Termination

For 1 core / 3 core XLPE cable from 11kV-36kV

Heat shrink medium voltage indoor termination for three core, EPR or XLPE insulated, wire and tape screened, armoured or unarmoured cable, copper or aluminium conductors. Cable lugs not included.

Part Ref. No.	Max. Volt kV	Cable Size sq.mm.	Tail Length mm
AXSI-11	12/17.5	16-35	450/650
AXSI-12	12/17.5	50-95	450/650
AXSI-13	12/17.5	120-185	450/650
AXSI-14	12/17.5	240-300	450/650
AXSI-15	12/17.5	400-630	450/650
AXSI-21	24	25-50	650
AXSI-22	24	70-120	650
AXSI-23	24	150-185	650
AXSI-24	24	240-400	650
AXSI-31	36	25-50	850
AXSI-32	36	70-95	850
AXSI-33	36	120-185	850
AXSI-34	36	240-400	850

Heat shrink medium voltage outdoor termination for three core, EPR or XLPE insulated, wire and tape screened, armoured or unarmoured cable, copper or aluminium conductors. Cable lugs not included.

Part Ref. No.	Max. Volt kV	Cable Size sq.mm.	Tail Length mm
ASXO-11	12/17.5	16-35	450/650
ASXO-12	12/17.5	50-95	450/650
ASXO-13	12/17.5	120-185	450/650
ASXO-14	12/17.5	240-300	450/650
ASXO-15	12/17.5	400-630	450/650
ASXO-21	24	25-50	650
ASXO-22	24	70-120	650
ASXO-23	24	150-185	650
ASXO-24	24	240-400	650
ASXO-31	36	25-50	850
ASXO-32	36	70-95	850
ASXO-33	36	120-185	850
ASXO-34	36	240-400	850

Heat shrink medium voltage indoor termination for single core, EPR or XLPE insulated, wire and tape screened, armoured or unarmoured cable, copper or aluminium conductors. Cable lugs not included.

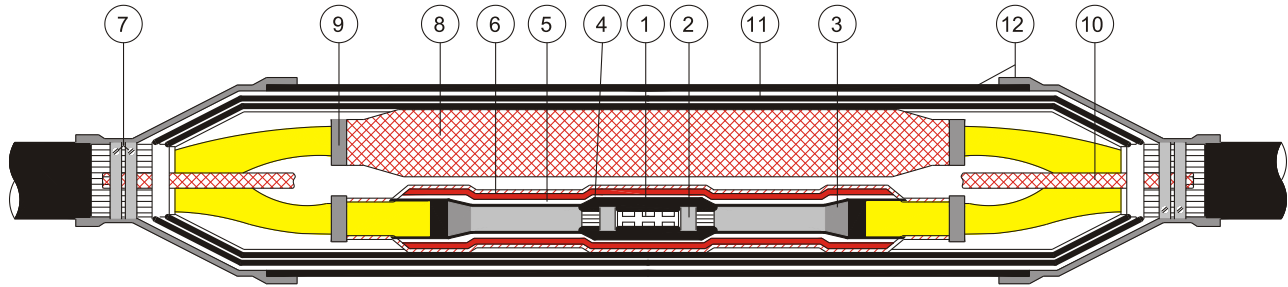
Part Ref. No.	Max. Volt kV	Cable Size sq.mm.	Tail Length mm
AXSSI-11	12/17.5	16-35	300
AXSSI-12	12/17.5	50-95	300
AXSSI-13	12/17.5	120-185	300
AXSSI-14	12/17.5	300-500	300
AXSSI-15	12/17.5	630-1000	300
AXSSI-21	24	25-50	350
AXSSI-22	24	70-120	350
AXSSI-23	24	185-300	350
AXSSI-24	24	400-630	350
AXSSI-25	24	800-1000	350
AXSSI-31	36	25-50	450
AXSSI-32	36	70-95	450
AXSSI-33	36	240-500	450
AXSSI-34	36	630-1000	450

Heat shrink medium voltage outdoor termination for single core, EPR or XLPE insulated, wire and tape screened, armoured or unarmoured cable, copper or aluminium conductors. Cable lugs not included.

Part Ref. No.	Max. Volt kV	Cable Size sq.mm.	Tail Length mm
AXSSO-11	12/17.5	16-35	300
AXSSO-12	12/17.5	50-95	300
AXSSO-13	12/17.5	120-185	300
AXSSO-14	12/17.5	300-500	300
AXSSO-15	12/17.5	630-1000	300
AXSSO-21	24	25-50	350
AXSSO-22	24	70-120	350
AXSSO-23	24	185-300	350
AXSSO-24	24	400-630	350
AXSSO-25	24	800-1000	350
AXSSO-31	36	25-50	450
AXSSO-32	36	70-95	450
AXSSO-33	36	240-500	450
AXSSO-34	36	630-1000	450

Heat Shrink Straight Thru Joint

For 1 core / 3 core XLPE cable from 11kV-36kV



In Line Connector
Stress Control Mastic
Stress Control Tape
Stress Control Sleeve
Insulation Sleeve
Dual Wall Sleeve

1
2
3
4
5
6

Worm Drive Clamp
Copper Woven Mesh Tape
Constant Force Spring Clamp
Armor Continuity Connection
Metallic Protection Cage
Outer Protection Sleeve

7
8
9
10
11
12

Heat shrink medium voltage straight through joint for three core, EPR or XLPE insulated, wire and tape screened, armoured or unarmoured cable, copper or aluminium conductors. Cable inline connectors not included

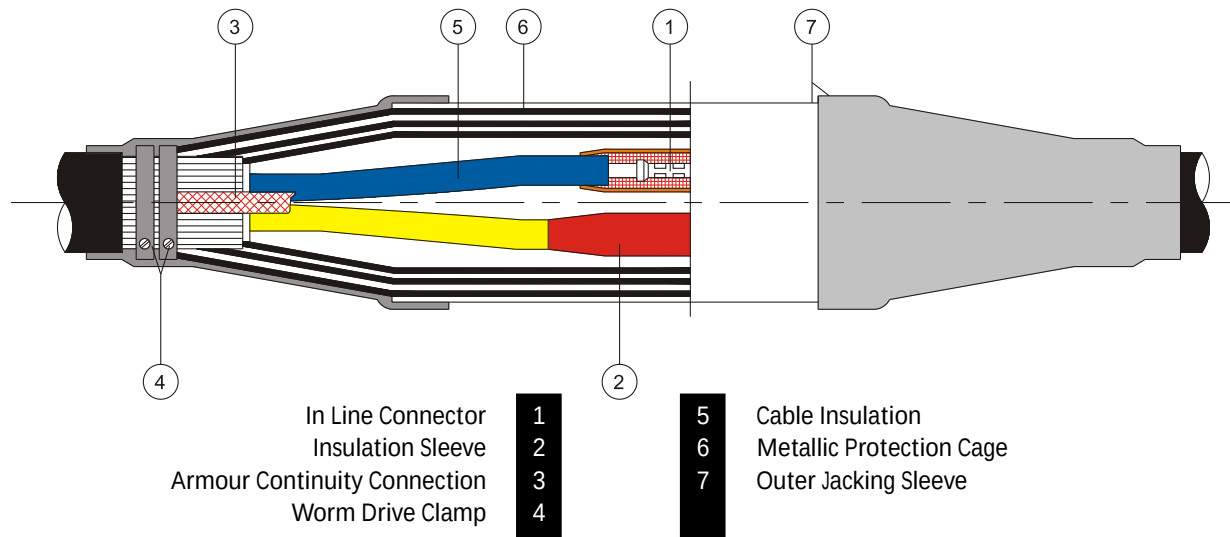
Part Ref. No.	Max. Volt kV	Cable Size sq.mm.
AXSJ-11	12/17.5	16-35
AXSJ-12	12/17.5	50-95
AXSJ-13	12/17.5	120-185
AXSJ-14	12/17.5	240-400
AXSJ-15	12/17.5	500-630
AXSJ-21	24	25-50
AXSJ-22	24	70-120
AXSJ-23	24	120-150
AXSJ-24	24	185-240
AXSJ-25	24	300-400
AXSJ-31	36	25-50
AXSJ-32	36	95-150
AXSJ-33	36	185-300
AXSJ-34	36	400-630

Heat shrink medium voltage straight through joint for single core, EPR or XLPE insulated, wire and tape screened, armoured or unarmoured cable, copper or aluminium conductors. Cable inline connectors not included

Part Ref. No.	Max. Volt kV	Cable Size sq.mm.
AXSSJ-11	12/17.5	25-50
AXSSJ-12	12/17.5	70-120
AXSSJ-13	12/17.5	150-185
AXSSJ-14	12/17.5	240-300
AXSSJ-15	12/17.5	400-500
AXSSJ-16	12/17.5	630-1000
AXSSJ-21	24	25-50
AXSSJ-22	24	70-150
AXSSJ-23	24	185-240
AXSSJ-24	24	300-400
AXSSJ-25	24	500-630
AXSSJ-31	36	35-70
AXSSJ-32	36	95-150
AXSSJ-33	36	185-400
AXSSJ-34	36	500-1000

Heat Shrink Straight Thru Joint

For 1.1kV PVC/XLPE/EPR Cable



Heat shrink low voltage straight through joint for PVC/XLPE/EPR cables. Cable inline connectors not included

Part Ref. No.	Max. Volt kV	Cable Size sq.mm.
AXLVJA -11	1.2	1C x 25-50
AXLVJA -12	1.2	1C x 70-150
AXLVJA -13	1.2	1C x 185-300
AXLVJA -14	1.2	1C x 400
AXLVJA -15	1.2	1C x 500-630
AXLVJA -16	1.2	1C x 800-1000
AXLVJA -21	1.2	2C x 1.5-6
AXLVJA -22	1.2	2C x 10-16
AXLVJA -23	1.2	2C x 25-50
AXLVJA -24	1.2	2C x 70-150
AXLVJA -25	1.2	2C x 185-300
AXLVJA -26	1.2	2C x 400-500
AXLVJA -01	1.2	4C x 1.5-6
AXLVJA -02	1.2	4C x 10-16
AXLVJA -03	1.2	4C x 25-50
AXLVJA -04	1.2	4C x 70-150
AXLVJA -05	1.2	4C x 185-300
AXLVJA -06	1.2	4C x 400-500

Heat shrink low voltage termination for PVC/XLPE/EPR cables. Cable lugs not included

Part Ref. No.	Max. Volt kV	Cable Size sq.mm.
AXLVJA -11	1.2	4C x 4-6
AXLVJA -12	1.2	4C x 25-50
AXLVJA -13	1.2	4C x 70-150
AXLVJA -14	1.2	4C x 185-300
AXLVJA -15	1.2	4C x 400-630
AXLVJA -21	1.2	1C x 25-50
AXLVJA -22	1.2	1C x 70-150
AXLVJA -23	1.2	1C x 185-300
AXLVJA -24	1.2	1C x 400-630
AXLVJA -25	1.2	1C x 800-1000

Heat Shrink Bus Bar Insulating Tubing

upto 36 kV



Reduces bus bar clearance requirements
Protects against accidental flashover
Continuous operating temp: -40 to 125 deb. C
Suitable for medium voltage switchgear upto 36kV

Clearance dimensions insulated bar

Voltage max kV	Distance in air mm	On round busbar mm		On rectangular busbar mm	
		Ph./Ph.	Ph./gr.	Ph./Ph.	Ph./gr.
12	120	50	60	60	70
17.5	160	65	80	80	100
24	220	90	120	110	145
36	320	145	200	190	280

Dimension chart

Dimensions	D min (mm)	d max (mm)	T min** (mm)	Reel (m)	
30/12	30	12	2,6	40	
50/20	50	20	2,6	40	
75/30	75	30	3,5	40	
100/40	100	40	4,0	25	
120/50	120	50	4,0	25	
150/60	150	60	4,0	25	

** Fully recovered

Heat Shrink Breakout, Boots & Shapes

upto 36 kV

IB - Insulating breakout seal and protect cable and conduit breakout

RS - Rain shed reduces flash over potential in termination & insulators

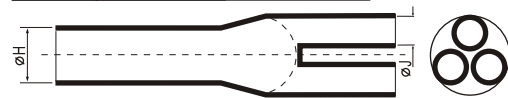
RAB - Right angle boot seal and protect right angle termination

SB - In line boot seal and protect legged step down transitions



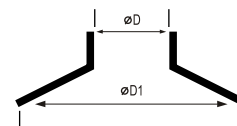
Dimension chart for 3-way insulating breakout

Part No	Expanded		Recovered	
	Hmin	Jmin	Hmax	Jmax
IB 1330	75	32	30	13
IB 2145	110	55	45	21
IB 2755	135	64	55	27



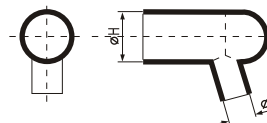
Dimension chart for rain shed

Part No	D exp(min)	D rec(max)	D1 $\pm 10\%$
RS-1	35	15	89
RS-2	52	21	122
RS-3	65	28	136
RS-4	75	28	136



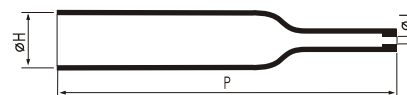
Dimension chart for right angle boot

Part No	Expanded		Recovered	
	Hmin	Jmin	Hmax	Jmax
RAB-1	75	36	35	18
RAB-2	75	50	35	26
RAB-3	95	67	35	26



Dimension chart for straight boot

Part No	Expanded		Recovered		Recovered Full Shrunk P $\pm 10\%$
	H	J	H	J	
SB-1	80	34	32	19	225
SB-2	80	58	32	19	225



All dimensions are in mm

Heat Shrink Cable End Caps

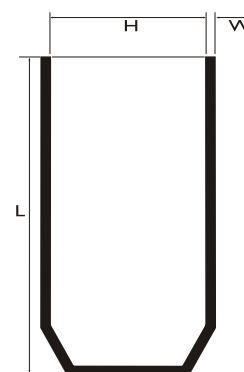
for Sealing of Cable Ends

Ideal for sealing cable ends, pipe, conduits, etc.

Resistance to weathering, moisture contamination &
adverse environmental conditions Good resistant against abrasion



Part No	H		Length $L \pm 10\%$	Recovered wall thickness $W \pm 20\%$
	a (min)	b (max)		
HSEC-105 12/4	12	4	40	2.6
HSEC-110 14/5	14	5	45	2.2
HSEC-115 20/6	20	6	55	2.8
HSEC-120 25/8.5	25	8.5	68	2.8
HSEC-130 35/16	35	16	83	3.3
HSEC-135 40/16	40	16	83	3.3
HSEC-140 55/26	55	26	103	3.5
HSEC-150 75/36	75	36	120	4.0
HSEC-160 100/52	100	52	140	4.0
HSEC-170 120/60	120	60	150	4.0
HSEC-180 145/60	145	60	150	4.0
HSEC-190 160/82	160	82	150	4.0



a: as supplied
b: after fully recovered
End cap with valve is available
on request
All Dimensions are in mm

Heat Shrink Medium Wall Insulating Tubing

for Insulation

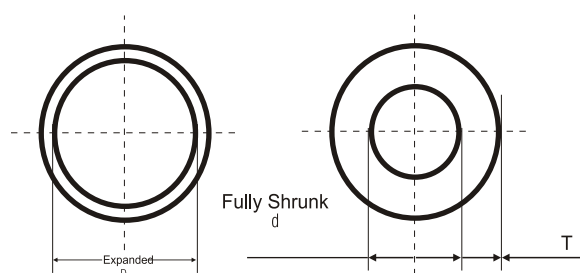
Suitable for low and medium voltage insulation
Available in two version adhesive and non adhesive



Dimension chart adhesive coated or non adhesive tubing

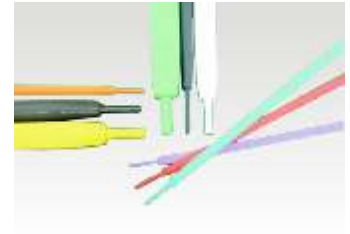
Dimensions	D min (mm)	d max (mm)	T min** (mm)	Standard length (mm)
9 / 3	9	3	1,8	1000 - 1500
13 / 4	13	4	2,4	1000 - 1500
19 / 6	19	6	2,4	1000 - 1500
33 / 8	33	8	3,0	1000 - 1500
45 /12	45	12	4,1	1000 - 1500
51 /16	51	16	4,1	1000 - 1500
68 /22	68	22	4,1	1000 - 1500
85 /25	85	25	4,1	1000 - 1500
105/30	105	30	4,1	1000 - 1500
130/36	130	36	4,2	1000 - 1500
165/50	165	50	4,5	1000 - 1500
185/50	185	50	4,5	1000 - 1500

** Fully recovered



Heat Shrink Thin Wall Insulating Tubing

for Insulation



Widely used for electrical insulation and protects in-line components. Bundles wires for very flexible light-duty harnesses. Identifies or color-codes, wires, cables, terminals and components.

Dimensions Chart for Thin Wall Tubing

Normal size (mm)	As supplied (mm)		After recovered (mm)		Standard length (m/spool)
	Inside diameter (mm)	Wall thickness (nominal)	Inside diameter (max.)	Wall thickness (min.)	
φ 1.0	1.5 ± 0.2	0.18	0.50	0.33	200
φ 1.5	2.0 ± 0.2	0.18	0.75	0.36	200
φ 2.0	2.7 ± 0.2	0.25	1.00	0.44	200
φ 2.5	3.1 ± 0.2	0.25	1.25	0.44	200
φ 3.0	3.7 ± 0.3	0.25	1.50	0.44	200
φ 3.5	4.0 ± 0.3	0.25	1.75	0.44	200
φ 4.0	4.7 ± 0.3	0.25	2.00	0.44	200
φ 5.0	5.6 ± 0.3	0.25	2.50	0.56	100
φ 6.0	6.8 ± 0.3	0.25	3.00	0.56	100
φ 7.0	7.7 ± 0.3	0.25	3.50	0.56	100
φ 8.0	8.8 ± 0.3	0.30	4.00	0.56	100
φ 9.0	9.8 ± 0.3	0.30	4.50	0.56	100
φ 10	10.7 ± 0.4	0.30	5.00	0.56	100
φ 11	11.7 ± 0.4	0.30	5.50	0.56	100
φ 12	12.7 ± 0.4	0.30	6.00	0.56	50
φ 13	13.7 ± 0.4	0.30	6.50	0.65	50
φ 14	14.7 ± 0.4	0.35	7.00	0.69	50
φ 15	15.7 ± 0.5	0.35	7.50	0.69	50
φ 16	16.7 ± 0.5	0.35	8.00	0.69	50
φ 18	19.0 ± 0.5	0.40	9.00	0.80	50
φ 20	21.4 ± 0.5	0.40	10.00	0.80	50
φ 22	23.4 ± 0.6	0.45	11.00	0.80	50
φ 25	26.5 ± 0.8	0.45	12.50	0.90	50
φ 28	29.5 ± 0.8	0.45	14.00	0.90	50
φ 30	31.5 ± 0.8	0.45	15.00	0.90	50
φ 35	36.5 ± 0.8	0.50	17.50	0.90	50
φ 40	42.0 ± 0.8	0.50	20.00	1.00	50
φ 50	52.0 ± 0.8	0.50	25.00	1.00	50
φ 60	62.0 ± 1.0	0.50	30.00	1.00	30
φ 70	72.0 ± 1.0	0.50	35.00	1.20	30
φ 80	82.0 ± 1.0	0.55	40.00	1.20	30
φ 100	102.0 ± 1.0	0.55	50.00	1.30	30
φ 120	121.0 ± 1.0	0.55	60.00	1.30	15
φ 150	151.0 ± 1.0	0.55	75.00	1.30	15

Special size, cut pieces are available on request.