

ES1000 Heat Shrink Tubing

RAYCHEM | RAYCHEM ES1000

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Heat Shrink Tubing

TE's ES1000 clear, semi rigid, adhesive lined, non-flame retarded tubing. Made up crosslinked polyolefin and designed for environmental sealing and electrical insulation of wire splices, terminations, and components for see-through inspection.



Primary Product Color: **Clear**

Wall Type: **Dual Wall**

Expanded Inside Diameter (Min): **7.44 mm**

Recovered Inside Diameter (Max): **1.65 mm**

Shrink Ratio: **4:1**

Features

Reference Number

TE Internal Number

CAT-HST-ES1000

Product Type Features

Tubing Product Type

Heat Shrink Tubing, Heat Shrink Tubing Kit

Wall Type

Dual Wall

Electrical Characteristics

Operating Voltage (Max) (kV)

.6

Body Features

Fluid Type

Brake Fluid, Water

Primary Product Color

Clear

Shrink Ratio

4:1

Primary Product Material

Crosslinked Polyolefin, Irradiated Modified Polyolefin

Flexibility

Flexible, Semi-Rigid, Very Flexible

Dimensions

Recovered Wall Thickness (Tolerance) (mm)

1.2, 1.52, 1.91, 2.41

Recovered Wall Thickness (Tolerance) (in)

.047, .06, .075, .095

Product Length (mm)

19, 20, 21, 25, 28, 30, 32, 35, 38, 40, 45, 48, 50, 55, 60, 65, 75, 100, 120, 150, 152.4, 1220

Product Length (in)	.748, .787, .827, .984, 1.102, 1.182, 1.26, 1.378, 1.496, 1.575, 1.77, 1.773, 1.889, 1.97, 2.165, 2.362, 2.56, 2.953, 3.937, 4.724, 5.905, 6, 48
Recovered Wall Thickness (Nominal) (mm)	1.2, 1.52, 1.91, 2.41
Recovered Wall Thickness (Nominal) (in)	.047, .06, .075, .095
Recovered Inside Diameter (Max) (mm)	1.27, 1.65, 2.41, 4.45
Recovered Inside Diameter (Max) (in)	.05, .065, .095, .175
Expanded Inside Diameter (Min) (mm)	5.72, 7.44, 10.85, 17.78
Expanded Inside Diameter (Min) (in)	.225, .293, .427, .7
Tubing Size Range (mm)	1.27 - 5.72, 1.65 - 7.44, 2.41 - 10.85, 4.45 - 17.78
Tubing Size Range (in)	.05 - .225, .065 - .293, .095 - .427, .175 - .7

Usage Conditions

Shrink Temperature (Min) (°C)	110
Resistance Properties	Immersion Protection, Moisture, Moisture & Spray Protection, Splash Protection
Tubing Flammability Type	Non-Flame-Retardant
Operating Temperature Range (°C)	-40 - 130
Recovery Temperature (°C)	135

Operation/Application

Mechanical Resistance	Abrasion, Fluids, Mechanical Damage, Strain Relief
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Product Availability

Applicable Region	Global
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Packaging Features

Packaging Method	Box, Coil, Piece, Stick
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Other

Meets Low Outgassing Requirements	No
Product Source	China, Czech Republic

SEE PRODUCTS ON NEXT PAGE

Products (1 of 5)



	ES1000-NO.2-B9-X-150MM	ES1000-NO.4-B7-X-150MM	ES1000-NO.3-B8-X-48MM	ES1000-NO.3-B8-X-25MM
TE Part #	C63832-000	D72328-000	CW3316-000	C22995-000
Expanded Inside Diameter (Min)	7.44 mm	17.78 mm	10.85 mm	10.85 mm
Recovered Inside Diameter (Max)	1.65 mm	4.45 mm	2.41 mm	2.41 mm
Tubing Product Type	Heat Shrink Tubing	Heat Shrink Tubing	Heat Shrink Tubing	Heat Shrink Tubing
Primary Product Material	Irradiated Modified Polyolefin	Crosslinked Polyolefin	Irradiated Modified Polyolefin	Irradiated Modified Polyolefin
Packaging Method	Box	Piece	Piece	Box
Tubing Size Range	1.65 - 7.44 mm	4.45 - 17.78 mm	2.41 - 10.85 mm	2.41 - 10.85 mm
Mechanical Resistance	Abrasion, Fluids, Mechanical Damage, Strain Relief			
Flexibility	Semi-Rigid	Very Flexible	Semi-Rigid	Semi-Rigid
Meets Low Outgassing Requirements	No	No	No	No
Applicable Region	Global	Global	Global	Global
Product Source	China, Czech Republic	China, Czech Republic	China, Czech Republic	China, Czech Republic
EU ELV Compliance				
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	RAYCHEM	RAYCHEM	RAYCHEM	RAYCHEM
Series	RAYCHEM ES1000	RAYCHEM ES1000	RAYCHEM ES1000	RAYCHEM ES1000

*EU RoHS Directive 2011/65/EU

These products comply with the substance restrictions of the Restriction on Hazardous Substances Directive 2011/65/EU (RoHS2). The RoHS2 Directive requires that certain electrical and electronic equipment products do not contain mercury, cadmium, hexavalent chromium, PBB, PBDE, lead, DEHP, BBP, DBP and DIBP above defined thresholds. Products indicated as 'Compliant' do not contain any of these substances above the prohibition thresholds. Finished electrical and electronic equipment products will be CE marked as required by the Directive. Components may not be CE marked.

**EU ELV Directive 2000/53/EC

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Products (2 of 5)



	ES1000-NO.1-C1-X-55MM	ES1000-NO.3-B8-X-30MM	ES1000-NO.2-B9-X-100MM	ES1000-NO.3-B8-X-20MM
TE Part #	193197P002	CR7066-000	364171-000	EM72496001
Expanded Inside Diameter (Min)	5.72 mm	10.85 mm	7.44 mm	10.85 mm
Recovered Inside Diameter (Max)	1.27 mm	2.41 mm	1.65 mm	2.41 mm
Tubing Product Type	Heat Shrink Tubing	Heat Shrink Tubing	Heat Shrink Tubing	Heat Shrink Tubing
Primary Product Material	Crosslinked Polyolefin	Crosslinked Polyolefin, Irradiated Modified Polyolefin	Crosslinked Polyolefin	Irradiated Modified Polyolefin
Packaging Method	Piece	Piece	Piece	Box
Tubing Size Range	1.27 - 5.72 mm	2.41 - 10.85 mm	1.65 - 7.44 mm	2.41 - 10.85 mm
Mechanical Resistance	Abrasion, Fluids, Mechanical Damage, Strain Relief	Abrasion, Fluids, Mechanical Damage, Strain Relief	Abrasion, Fluids, Mechanical Damage, Strain Relief	Abrasion, Fluids, Mechanical Damage, Strain Relief
Flexibility	Semi-Rigid	Semi-Rigid	Flexible	Semi-Rigid
Meets Low Outgassing Requirements	No	No	No	No
Applicable Region	Global	Global	Global	Global
Product Source	China, Czech Republic	China, Czech Republic	China, Czech Republic	China, Czech Republic
EU ELV Compliance				
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53 /EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	RAYCHEM	RAYCHEM	RAYCHEM	RAYCHEM
Series	RAYCHEM ES1000	RAYCHEM ES1000	RAYCHEM ES1000	RAYCHEM ES1000

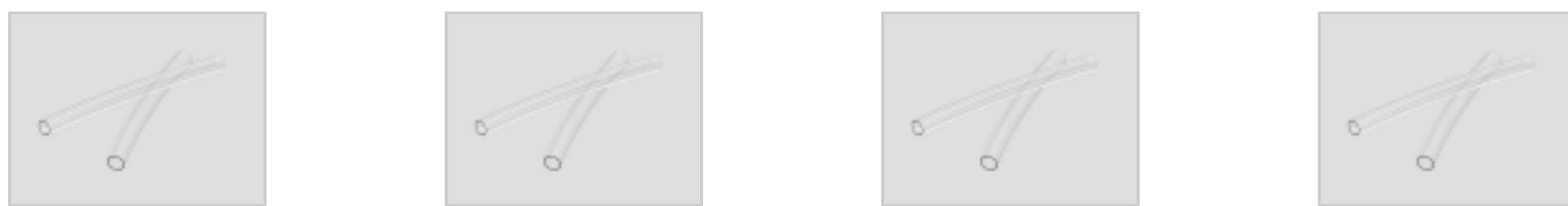
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Products (3 of 5)



	ES1000-NO.1-C1-X-150MM	ES1000-NO.3-B8-X-150MM	ES1000-NO.2-B9-X-45MM	ES1000-NO.2-B9-X-19MM
TE Part #	609564-000	709246-000	C20744-000	CX7480-000
Expanded Inside Diameter (Min)	5.72 mm	10.85 mm	7.44 mm	7.44 mm
Recovered Inside Diameter (Max)	1.27 mm	2.41 mm	1.65 mm	1.65 mm
Tubing Product Type	Heat Shrink Tubing	Heat Shrink Tubing	Heat Shrink Tubing	Heat Shrink Tubing
Primary Product Material	Irradiated Modified Polyolefin	Irradiated Modified Polyolefin	Irradiated Modified Polyolefin	Irradiated Modified Polyolefin
Packaging Method	Box	Box	Box	Piece
Tubing Size Range	1.27 - 5.72 mm	2.41 - 10.85 mm	1.65 - 7.44 mm	1.65 - 7.44 mm
Mechanical Resistance	Abrasion, Fluids, Mechanical Damage, Strain Relief			
Flexibility	Flexible	Semi-Rigid	Semi-Rigid	Semi-Rigid
Meets Low Outgassing Requirements	No	No	No	No
Applicable Region	Global	Global	Global	Global
Product Source	China, Czech Republic	China, Czech Republic	China, Czech Republic	China, Czech Republic
EU ELV Compliance				
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	RAYCHEM	RAYCHEM	RAYCHEM	RAYCHEM
Series	RAYCHEM ES1000	RAYCHEM ES1000	RAYCHEM ES1000	RAYCHEM ES1000

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Products (4 of 5)



	ES1000-NO.1-C1-X-28MM	ES1000-NO.2-B9-X-32MM	ES1000-NO.1-C1-X-19MM	ES1000-NO.1-C1-X-30MM
TE Part #	CX7479-000	CX7481-000	CX7430-000	193197P011
Expanded Inside Diameter (Min)	5.72 mm	7.44 mm	5.72 mm	5.72 mm
Recovered Inside Diameter (Max)	1.27 mm	1.65 mm	1.27 mm	1.27 mm
Tubing Product Type	Heat Shrink Tubing	Heat Shrink Tubing	Heat Shrink Tubing	Heat Shrink Tubing
Primary Product Material	Irradiated Modified Polyolefin	Irradiated Modified Polyolefin	Irradiated Modified Polyolefin	Crosslinked Polyolefin
Packaging Method	Piece	Piece	Piece	Piece
Tubing Size Range	1.27 - 5.72 mm	1.65 - 7.44 mm	1.27 - 5.72 mm	1.27 - 5.72 mm
Mechanical Resistance	Abrasion, Fluids, Mechanical Damage, Strain Relief			
Flexibility	Semi-Rigid	Semi-Rigid	Semi-Rigid	Semi-Rigid
Meets Low Outgassing Requirements	No	No	No	No
Applicable Region	Global	Global	Global	Global
Product Source	China, Czech Republic	China, Czech Republic	China, Czech Republic	China, Czech Republic
EU ELV Compliance				
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	Not Yet Reviewed for EU ELV	EU ELV Compliant	EU ELV Compliant
Product Families	RAYCHEM	RAYCHEM	RAYCHEM	RAYCHEM
Series	RAYCHEM ES1000	RAYCHEM ES1000	RAYCHEM ES1000	RAYCHEM ES1000

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Products (5 of 5)



	ES1000-NO.1-A1-X-STK	ES1000-NO.1-C1-X-100MM	ES1000-NO.1-C1-X-STK	ES1000-NO.1-C1-X-65MM
TE Part #	193197P005	193197P021	193197P004	193197P003
Expanded Inside Diameter (Min)	5.72 mm	5.72 mm	5.72 mm	5.72 mm
Recovered Inside Diameter (Max)	1.27 mm	1.27 mm	1.27 mm	1.27 mm
Tubing Product Type	Heat Shrink Tubing	Heat Shrink Tubing	Heat Shrink Tubing	Heat Shrink Tubing
Primary Product Material	Irradiated Modified Polyolefin	Irradiated Modified Polyolefin	Irradiated Modified Polyolefin	Irradiated Modified Polyolefin
Packaging Method	Stick	Piece	Stick	Piece
Tubing Size Range	1.27 - 5.72 mm			
Mechanical Resistance	Abrasion, Fluids, Mechanical Damage, Strain Relief			
Flexibility	Semi-Rigid	Semi-Rigid	Semi-Rigid	Semi-Rigid
Meets Low Outgassing Requirements	No	No	No	No
Applicable Region	Global	Global	Global	Global
Product Source	China, Czech Republic	China, Czech Republic	China, Czech Republic	China, Czech Republic
EU ELV Compliance				
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	RAYCHEM	RAYCHEM	RAYCHEM	RAYCHEM
Series	RAYCHEM ES1000	RAYCHEM ES1000	RAYCHEM ES1000	RAYCHEM ES1000

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Related Materials

[Data Sheet](#)

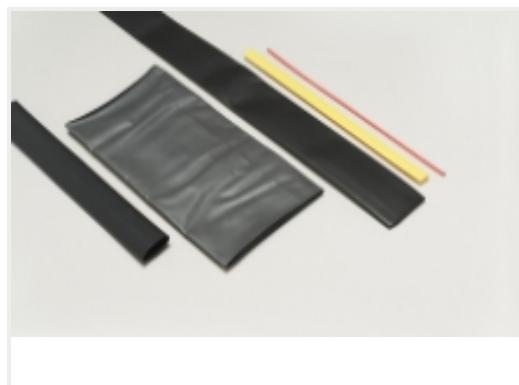
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English

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