

RNF-3000 Heat Shrink Tubing

RAYCHEM | RAYCHEM RNF-3000

[View on TE.com >](#)



Heat Shrink Tubing

RNF-3000 Heat Shrinking Tubing, single wall, flexible tubing in 3:1 shrink ratio with maximum operating voltage of 0.6kV. Offers mechanical resistance against fluids, abrasion, strain and mechanical damage.



Primary Product Color: **Red**

Wall Type: **Single Wall**

Expanded Inside Diameter (Min): **18 mm**

Recovered Inside Diameter (Max): **6 mm**

Shrink Ratio: **3:1**

Features

Reference Number

TE Internal Number

CAT-HST-RNF3000

Product Type Features

Tubing Product Type

Heat Shrink Tubing

Wall Type

Single Wall

Electrical Characteristics

Operating Voltage (Max) (kV)

.6

Body Features

Fluid Type

Gasoline, Hydraulic Fluid, Lubricating Oil, Water

Primary Product Color

Black, Blue, Brown, Clear, Gray, Green, Orange, Red, Violet, White, Yellow

Shrink Ratio

3:1

Primary Product Material

Irradiated Modified Polyolefin

Flexibility

Flexible

Dimensions

Recovered Wall Thickness (Tolerance) (in)

.003, .004, .005, .007, .008, .033

Recovered Wall Thickness (Tolerance) (mm)

.1, .12, .18, .2

Product Length (mm)

13, 20, 25, 30, 35, 40, 45, 50, 60, 65, 70, 80, 100, 125, 130, 200, 275, 1000, 1220

Product Length (in)	.512, .787, .98, .984, 1.181, 1.378, 1.574, 1.575, 1.772, 1.96, 1.968, 1.969, 2.362, 2.559, 2.756, 3.149, 3.937, 4.921, 5.11, 7.87, 10.827, 39.37, 48.03, 48.031
Recovered Wall Thickness (Nominal) (mm)	.45, .55, .65, .75, .85, 1, 1.15
Recovered Wall Thickness (Nominal) (in)	.018, .022, .026, .03, .033, .039, .045
Recovered Inside Diameter (Max) (mm)	.5, 1, 1.5, 2, 3, 4, 6, 8, 13
Recovered Inside Diameter (Max) (in)	.019, .039, .059, .079, .118, .157, .236, .315, .512
Expanded Inside Diameter (Min) (mm)	1.5, 3, 4.5, 6, 9, 12, 18, 24, 39
Expanded Inside Diameter (Min) (in)	.06, .118, .177, .236, .354, .472, .709, .944, .945, 1.534
Tubing Size Range (mm)	.5 - 1.5, 1 - 3, 1.5 - 4.5, 1.5 - .5, 2 - 6, 3 - 9, 4 - 12, 6 - 18, 8 - 24, 13 - 39
Tubing Size Range (in)	.019 - .06, .039 - .118, .059 - .177, .06 - .019, .079 - .236, .118 - .354, .157 - .472, .236 - .709, .315 - .945, .315 - .944, .512 - 1.534

Usage Conditions

Shrink Temperature (Min) (°C)	80
Tubing Flammability Type	Flame-Retardant, Non-Flame-Retardant
Operating Temperature Range (°C)	-55 - 135
Recovery Temperature (°C)	120

Operation/Application

Mechanical Resistance	Abrasion, Fluids, Mechanical Damage, Strain Relief
-----------------------	--

Product Availability

Applicable Region	Asia, EMEA, Global
-------------------	--------------------

Packaging Features

Packaging Method	Bag & Box, Box, Flat Spool, Mini Spool, Piece, Reel, Spool, Stick
------------------	---

Other

Meets Low Outgassing Requirements	No
Product Source	Czech Republic

SEE PRODUCTS ON NEXT PAGE

Products (1 of 5)



RNF-3000-18/6-2-70MM

RNF-3000-24/8-2-40MM

RNF-3000-6/2-9-40MM

RNF-3000-18/6-0-45MM

TE Part #	ER01916001	5677676015	5677856142	8638626007
Primary Product Color	Red	Red	White	Black
Expanded Inside Diameter (Min)	18 mm	24 mm	6 mm	18 mm
Recovered Inside Diameter (Max)	6 mm	8 mm	2 mm	6 mm
Tubing Product Type	Heat Shrink Tubing	Heat Shrink Tubing	Heat Shrink Tubing	Heat Shrink Tubing
Tubing Flammability Type	Flame-Retardant	Flame-Retardant	Flame-Retardant	Flame-Retardant
Packaging Method	Flat Spool	Box	Box	Box
Tubing Size Range	6 - 18 mm	8 - 24 mm	2 - 6 mm	6 - 18 mm
Mechanical Resistance	Abrasion, Fluids, Mechanical Damage, Strain Relief			
Applicable Region	Global	Global	Global	Global
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 RNF-3000	RAYCHEM RNF-3000	RAYCHEM RNF-3000	RAYCHEM RNF-3000

*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

These products comply with the substance restrictions of the End of Life Vehicles Directive 2000/53/EC (ELV). The ELV Directive requires that materials and components of vehicles do not contain mercury, cadmium, hexavalent chromium, and lead above defined thresholds. Products indicated as 'Compliant' do not contain any of these substances above the prohibition thresholds.

Products (2 of 5)



RNF-3000-18/6-0-35MM	RNF-3000-3/1-9-200MM	RNF-3000-1.5/0.5-0-50MM	RNF-3000-18/6-2-60MM
TE Part #	8638626001	5677846066	5677556047
Primary Product Color	Black	White	Black
Expanded Inside Diameter (Min)	18 mm	3 mm	1.5 mm
Recovered Inside Diameter (Max)	6 mm	1 mm	.5 mm
Tubing Product Type	Heat Shrink Tubing	Heat Shrink Tubing	Heat Shrink Tubing
Tubing Flammability Type	Flame-Retardant	Flame-Retardant	Flame-Retardant
Packaging Method	Box	Box	Box
Tubing Size Range	6 - 18 mm	1 - 3 mm	.5 - 1.5 mm
Mechanical Resistance	Abrasion, Fluids, Mechanical Damage, Strain Relief	Abrasion, Fluids, Mechanical Damage, Strain Relief	Abrasion, Fluids, Mechanical Damage, Strain Relief
Applicable Region	Global	Global	Global
EU RoHS Directive 2011/65/EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	RAYCHEM	RAYCHEM	RAYCHEM
Series	RAYCHEM RNF-3000	RAYCHEM RNF-3000	RAYCHEM RNF-3000

TE Part #	8638626001	5677846066	5677556047	1929496026
Primary Product Color	Black	White	Black	Red
Expanded Inside Diameter (Min)	18 mm	3 mm	1.5 mm	18 mm
Recovered Inside Diameter (Max)	6 mm	1 mm	.5 mm	6 mm
Tubing Product Type	Heat Shrink Tubing	Heat Shrink Tubing	Heat Shrink Tubing	Heat Shrink Tubing
Tubing Flammability Type	Flame-Retardant	Flame-Retardant	Flame-Retardant	Flame-Retardant
Packaging Method	Box	Box	Box	Box
Tubing Size Range	6 - 18 mm	1 - 3 mm	.5 - 1.5 mm	6 - 18 mm
Mechanical Resistance	Abrasion, Fluids, Mechanical Damage, Strain Relief			
Applicable Region	Global	Global	Global	Global
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 RNF-3000	RAYCHEM RNF-3000	RAYCHEM RNF-3000	RAYCHEM RNF-3000

*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

These products comply with the substance restrictions of the End of Life Vehicles Directive 2000/53/EC (ELV). The ELV Directive requires that materials and components of vehicles do not contain mercury, cadmium, hexavalent chromium, and lead above defined thresholds. Products indicated as 'Compliant' do not contain any of these substances above the prohibition thresholds.

Products (3 of 5)



RNF-3000-18/6-0-70MM **RNF-3000-39/13-0-125MM** **RNF-3000-12/4-0-50MM** **RNF-3000-18/6-2-50MM**

TE Part #	ER01906001	5677616078	5677596030	1929496016
Primary Product Color	Black	Black	Black	Red
Expanded Inside Diameter (Min)	18 mm	39 mm	12 mm	18 mm
Recovered Inside Diameter (Max)	6 mm	13 mm	4 mm	6 mm
Tubing Product Type	Heat Shrink Tubing	Heat Shrink Tubing	Heat Shrink Tubing	Heat Shrink Tubing
Tubing Flammability Type	Flame-Retardant	Flame-Retardant	Flame-Retardant	Flame-Retardant
Packaging Method	Flat Spool	Box	Box	Box
Tubing Size Range	6 - 18 mm	13 - 39 mm	4 - 12 mm	6 - 18 mm
Mechanical Resistance	Abrasion, Fluids, Mechanical Damage, Strain Relief			
Applicable Region	Global	Global	Global	Global
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 RNF-3000	RAYCHEM RNF-3000	RAYCHEM RNF-3000	RAYCHEM RNF-3000

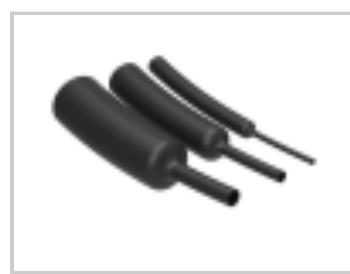
***EU RoHS Directive 2011/65/EU**

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**

These products comply with the substance restrictions of the End of Life Vehicles Directive 2000/53/EC (ELV). The ELV Directive requires that materials and components of vehicles do not contain mercury, cadmium, hexavalent chromium, and lead above defined thresholds. Products indicated as 'Compliant' do not contain any of these substances above the prohibition thresholds.

Products (4 of 5)



RNF-3000-24/8-6-100MM	RNF-3000-12/4-0-65MM	RNF-3000-3/1-0-50MM	RNF-3000-6/2-0-25MM
TE Part #	5677816012	5677596111	5677566043
Primary Product Color	Blue	Black	Black
Expanded Inside Diameter (Min)	24 mm	12 mm	3 mm
Recovered Inside Diameter (Max)	8 mm	4 mm	1 mm
Tubing Product Type	Heat Shrink Tubing	Heat Shrink Tubing	Heat Shrink Tubing
Tubing Flammability Type	Flame-Retardant	Flame-Retardant	Flame-Retardant
Packaging Method	Piece	Box	Box
Tubing Size Range	8 - 24 mm	4 - 12 mm	1 - 3 mm
Mechanical Resistance	Abrasion, Fluids, Mechanical Damage, Strain Relief	Abrasion, Fluids, Mechanical Damage, Strain Relief	Abrasion, Fluids, Mechanical Damage, Strain Relief
Applicable Region	Global	Global	Global
EU RoHS Directive 2011/65/EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	RAYCHEM	RAYCHEM	RAYCHEM
Series	RAYCHEM RNF-3000	RAYCHEM RNF-3000	RAYCHEM RNF-3000

TE Part #	5677816012	5677596111	5677566043	5677576019
Primary Product Color	Blue	Black	Black	Black
Expanded Inside Diameter (Min)	24 mm	12 mm	3 mm	6 mm
Recovered Inside Diameter (Max)	8 mm	4 mm	1 mm	2 mm
Tubing Product Type	Heat Shrink Tubing	Heat Shrink Tubing	Heat Shrink Tubing	Heat Shrink Tubing
Tubing Flammability Type	Flame-Retardant	Flame-Retardant	Flame-Retardant	Flame-Retardant
Packaging Method	Piece	Box	Box	Box
Tubing Size Range	8 - 24 mm	4 - 12 mm	1 - 3 mm	2 - 6 mm
Mechanical Resistance	Abrasion, Fluids, Mechanical Damage, Strain Relief			
Applicable Region	Global	Global	Global	Global
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 RNF-3000	RAYCHEM RNF-3000	RAYCHEM RNF-3000	RAYCHEM RNF-3000

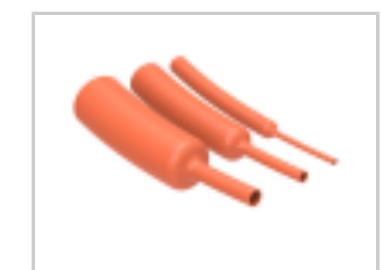
***EU RoHS Directive 2011/65/EU**

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**

These products comply with the substance restrictions of the End of Life Vehicles Directive 2000/53/EC (ELV). The ELV Directive requires that materials and components of vehicles do not contain mercury, cadmium, hexavalent chromium, and lead above defined thresholds. Products indicated as 'Compliant' do not contain any of these substances above the prohibition thresholds.

Products (5 of 5)



RNF-3000-12/4-2-40MM

RNF-3000-3/1-0-30MM

RNF-3000-9/3-0-40MM

RNF-3000-3/1-3-SP

TE Part #	5677666022	5677566003	5677586020	0442514004
Primary Product Color	Red	Black	Black	Orange
Expanded Inside Diameter (Min)	12 mm	3 mm	9 mm	3 mm
Recovered Inside Diameter (Max)	4 mm	1 mm	3 mm	1 mm
Tubing Product Type	Heat Shrink Tubing	Heat Shrink Tubing	Heat Shrink Tubing	Heat Shrink Tubing
Tubing Flammability Type	Flame-Retardant	Flame-Retardant	Flame-Retardant	Flame-Retardant
Packaging Method	Piece	Piece	Box	Box
Tubing Size Range	4 - 12 mm	1 - 3 mm	3 - 9 mm	1 - 3 mm
Mechanical Resistance	Abrasion, Fluids, Mechanical Damage, Strain Relief			
Applicable Region	Global	Global	Global	Global
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 RNF-3000	RAYCHEM RNF-3000	RAYCHEM RNF-3000	RAYCHEM RNF-3000

*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

These products comply with the substance restrictions of the End of Life Vehicles Directive 2000/53/EC (ELV). The ELV Directive requires that materials and components of vehicles do not contain mercury, cadmium, hexavalent chromium, and lead above defined thresholds. Products indicated as 'Compliant' do not contain any of these substances above the prohibition thresholds.

Related Materials

[Data Sheet](#)

[RNF-300 Tubing](#)

English

Also in the Series | [RAYCHEM RNF-3000](#)

