

CRN Heat Shrink Tubing

RAYCHEM | RAYCHEM CRN
[View on TE.com >](#)



Heat Shrink Tubing

TE Connectivity CRN polyolefin tubing, flame-retardant, high abrasion resistance, black color with 2:1 shrink ratio. Semirigid and RoHS compliant for strain relief applications, delicate component packaging with rugged marking for cables.



Primary Product Color: **Clear**

Wall Type: **Single Wall**

Expanded Inside Diameter (Min): **9.5 mm**

Recovered Inside Diameter (Max): **4.74 mm**

Shrink Ratio: **2:1**

Features

Reference Number

TE Internal Number	CAT-HST-CRN
--------------------	-------------

Product Type Features

Tubing Product Type	Heat Shrink Tubing
Wall Type	Single Wall

Electrical Characteristics

Operating Voltage (Max) (kV)	.6
------------------------------	----

Body Features

Fluid Type	Aviation Fuel, Brake Fluid, Chemicals /Solvents, Hydraulic Fluid, Water
Primary Product Color	Black, Clear
Shrink Ratio	2:1
Primary Product Material	Irradiated Modified Polyolefin
Flexibility	Flex-Rigid, Semi-Rigid

Dimensions

Recovered Wall Thickness (Tolerance) (mm)	.1, .15, .25, .3
Recovered Wall Thickness (Tolerance) (in)	.004, .006, .01
Product Length (mm)	20, 28, 30, 60, 115, 200, 1220



Product Length (in)	.787, 1.102, 1.181, 2.362, 4.528, 7.87, 48.031
Recovered Wall Thickness (Nominal) (mm)	.5, .63, .64, .76, .89
Recovered Wall Thickness (Nominal) (in)	.02, .025, .03, .035
Recovered Inside Diameter (Max) (mm)	.58, .79, 1.17, 1.57, 2.36, 3.17, 4.74, 6.35, 9.53
Recovered Inside Diameter (Max) (in)	.023, .031, .046, .062, .093, .125, .187, .25, .375
Expanded Inside Diameter (Min) (mm)	1.17, 1.6, 2.36, 3.17, 4.74, 6.35, 9.5, 12.7, 19.05
Expanded Inside Diameter (Min) (in)	.046, .063, .093, .125, .187, .25, .374, .5, .75
Tubing Size Range (mm)	.58 - 1.17, .79 - 1.6, 1.17 - 2.36, 1.57 - 3.17, 2.36 - 4.74, 3.17 - 6.35, 4.74 - 9.5, 6.35 - 12.7, 9.53 - 19.05
Tubing Size Range (in)	.023 - .046, .031 - .063, .046 - .093, .062 - .125, .093 - .187, .125 - .25, .187 - .374, .25 - .5, .375 - .75

Usage Conditions

Shrink Temperature (Min) (°C)	110
Tubing Flammability Type	Flame-Retardant, Non-Flame-Retardant
Operating Temperature Range (°C)	-55 - 135
Recovery Temperature (°C)	135

Operation/Application

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

Product Availability

Applicable Region	Global
-------------------	--------

Packaging Features

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

Other

Meets Low Outgassing Requirements	No
Product Source	Czech Republic

SEE PRODUCTS ON NEXT PAGE



Products (1 of 5)



	CRN-3/8-X-SP	CRN-1/8-0-STK-CS34568	CRN-3/16-X-STK-CS34568	CRN-3/32-X-STK-CS34568
TE Part #	NB33724001	NB46552001	NB46582001	NB46602001
Primary Product Color	Clear	Black	Clear	Clear
Expanded Inside Diameter (Min)	9.5 mm	3.17 mm	4.74 mm	2.36 mm
Recovered Inside Diameter (Max)	4.74 mm	1.57 mm	2.36 mm	1.17 mm
Tubing Flammability Type	Non-Flame-Retardant	Flame-Retardant	Non-Flame-Retardant	Non-Flame-Retardant
Packaging Method	Spool	Stick	Stick	Stick
Tubing Size Range	4.74 - 9.5 mm	1.57 - 3.17 mm	2.36 - 4.74 mm	1.17 - 2.36 mm
Mechanical Resistance	Abrasion, Fluids, Strain Relief	Abrasion, Fluids, Strain Relief	Abrasion, Fluids, Strain Relief	Abrasion, Fluids, Strain Relief
Flexibility	Semi-Rigid	Semi-Rigid	Semi-Rigid	Semi-Rigid
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 CRN	RAYCHEM CRN	RAYCHEM CRN	RAYCHEM CRN

***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)



CRN-3/64-0-STK-CS34568

CRN-3/64-X-SP-CS34568

CRN-1/4-0-STK-CS34568

CRN-3/64-0-SP-CS34568

TE Part #	NB46622001	NB46634001	NB46522001	NB46614001
Primary Product Color	Black	Clear	Black	Black
Expanded Inside Diameter (Min)	1.17 mm	1.17 mm	6.35 mm	1.17 mm
Recovered Inside Diameter (Max)	.58 mm	.58 mm	3.17 mm	.58 mm
Tubing Flammability Type	Flame-Retardant	Non-Flame-Retardant	Flame-Retardant	Flame-Retardant
Packaging Method	Stick	Spool	Stick	Spool
Tubing Size Range	.58 - 1.17 mm	.58 - 1.17 mm	3.17 - 6.35 mm	.58 - 1.17 mm
Mechanical Resistance	Abrasion, Fluids, Strain Relief	Abrasion, Fluids, Strain Relief	Abrasion, Fluids, Strain Relief	Abrasion, Fluids, Strain Relief
Flexibility	Semi-Rigid	Semi-Rigid	Semi-Rigid	Semi-Rigid
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 CRN	RAYCHEM CRN	RAYCHEM CRN	RAYCHEM CRN

*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)



CRN-3/8-0-STK-CS34568

CRN-3/8-X-SP-CS34568

CRN-1/4-X-SP

CRN-3/64-0-MS-STK

TE Part #	NB46652001	NB46664001	NB15284001	ER01972001
Primary Product Color	Black	Clear	Clear	Black
Expanded Inside Diameter (Min)	9.5 mm	9.5 mm	6.35 mm	1.17 mm
Recovered Inside Diameter (Max)	4.74 mm	4.74 mm	3.17 mm	.58 mm
Tubing Flammability Type	Flame-Retardant	Non-Flame-Retardant	Non-Flame-Retardant	Flame-Retardant
Packaging Method	Stick	Spool	Spool	Stick
Tubing Size Range	4.74 - 9.5 mm	4.74 - 9.5 mm	3.17 - 6.35 mm	.58 - 1.17 mm
Mechanical Resistance	Abrasion, Fluids, Strain Relief	Abrasion, Fluids, Strain Relief	Abrasion, Fluids, Strain Relief	Abrasion, Fluids, Strain Relief
Flexibility	Semi-Rigid	Semi-Rigid	Flex-Rigid	Semi-Rigid
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 CRN	RAYCHEM CRN	RAYCHEM CRN	RAYCHEM CRN

*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)



CRN-1/16-0-MS-STK



CRN-3/64-0-MS-SP



CRN-3/32-0-MS-STK



CRN-3/64-X-SP

TE Part #	ER04322001	ER01944001	ER04352001	NB32674001
Primary Product Color	Black	Black	Black	Clear
Expanded Inside Diameter (Min)	1.6 mm	1.17 mm	2.36 mm	1.17 mm
Recovered Inside Diameter (Max)	.79 mm	.58 mm	1.17 mm	.58 mm
Tubing Flammability Type	Flame-Retardant	Flame-Retardant	Flame-Retardant	Non-Flame-Retardant
Packaging Method	Stick	Spool	Bag & Box	Spool
Tubing Size Range	.79 - 1.6 mm	.58 - 1.17 mm	1.17 - 2.36 mm	.58 - 1.17 mm
Mechanical Resistance	Abrasion, Fluids, Strain Relief	Abrasion, Fluids, Strain Relief	Abrasion, Fluids, Strain Relief	Abrasion, Fluids, Strain Relief
Flexibility	Semi-Rigid	Semi-Rigid	Semi-Rigid	Semi-Rigid
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 CRN	RAYCHEM CRN	RAYCHEM CRN	RAYCHEM CRN

***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)



	CRN-3/8-0-30MM	CRN-3/16-0-200MM	CRN-1/4-X-STK-CS34568	CRN-3/64-X-STK-CS34568
TE Part #	NB34116001	EP27496001	NB46542001	NB46642001
Primary Product Color	Black	Black	Clear	Clear
Expanded Inside Diameter (Min)	9.5 mm	4.74 mm	6.35 mm	1.17 mm
Recovered Inside Diameter (Max)	4.74 mm	2.36 mm	3.17 mm	.58 mm
Tubing Flammability Type	Flame-Retardant	Flame-Retardant	Non-Flame-Retardant	Non-Flame-Retardant
Packaging Method	Piece	Piece	Stick	Stick
Tubing Size Range	4.74 - 9.5 mm	2.36 - 4.74 mm	3.17 - 6.35 mm	.58 - 1.17 mm
Mechanical Resistance	Abrasion, Fluids, Mechanical Damage	Abrasion, Fluids, Strain Relief	Abrasion, Fluids, Strain Relief	Abrasion, Fluids, Strain Relief
Flexibility	Semi-Rigid	Semi-Rigid	Semi-Rigid	Semi-Rigid
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 CRN	RAYCHEM CRN	RAYCHEM CRN	RAYCHEM CRN

*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.

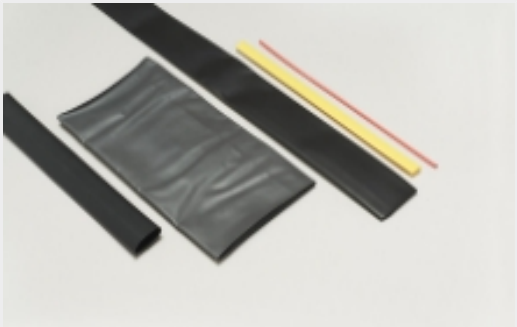


Related Materials

Specification Or Standard

Raychem CRN Tubing Semi-rigid, Flame-retardant, Polyolefin
English

Also in the Series | RAYCHEM CRN



Heat Shrink Tubing(60)



Single Wall Tubing(59)