RayBlock 85

Heat-Shrinkable Water-Blocking System

Electronics

Product Facts

₹ Тусо

- Environmentally seals wire bundles of up to 20 wires
- Withstands temperature excursions to 105°C [221°F]
- Provides excellent strain relief and reduces noise
- Offers a low-profile installed product only marginally larger than the cable bundle itself
- RoHS compliant



Applications

Designed to provide consistent sealing for cable bundles and the back of connectors. The wires are placed within the channels of a specially formulated hot-melt adhesive profile, then covered by dual-wall, heat-shrinkable tubing with a flame-retardant, radiationcrosslinked outer wall and hot-melt-adhesive inner wall. When the tubing is heated, the hot-melt adhesive melts and the tubing shrinks, forcing the molten adhesive to fill all the voids within the wire bundle and tubing. The result is a solid plug of adhesive molded around each wire in the bundle, creating a moistureresistant seal.

Installation

Minimum shrink temperature: 80°C [176°F] Minimum full recovery

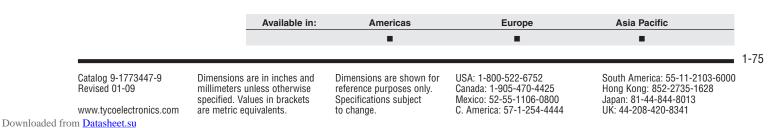
temperature: 110°C [230°F]

Operating Temperature Range

-40°C to 85°C [-40°F to 185°F]

Specifications/Approvals

Series	Raychem
RayBlock 85	RayBlock 85 SCD RW-2101



RHW

Rugged, Heavy Wall, Adhesive-Lined, Polyolefin Heat-Shrinkable Tubing

Electronics

Product Facts

₹ Тусо

- Withstands mechanical abuse for increased product reliability
- Highly resistant to impact and abrasion
- Provides high level of strain relief when installed on splices and joints
- Resistant to chemicals, moisture and oils
- Provides a complete moisture-proof seal preventing corrosion of underlying components
- RoHS compliant



Applications

Rugged, heavy wall RHW tubing is specifically designed for insulating, protecting and sealing electrical connections and joints in low-voltage cables. It provides splice insulation thickness equal to or greater than standard wire insulation manufactured to common industry standards.

RHW is a suitable choice for applications where maximum reliability and product performance, and simplified installation are required. Because RHW is heat-shrinkable. a minimum number of sizes are needed to cover a wide range of cables and splice diameters.

Installation

Minimum shrink temperature: 110°C [230°F] Minimum full recovery

temperature: 125°C [257°F]

Operating Temperature Range

-55°C to 110°C [-67°F to 230°F]

Specifications/Approvals

Series	UL* c	Raychem
RHW	File E91151	RHW SCD
*Sizes 9/3 through 70/21 only.		

Available in: Americas Europe Asia Pacific 1-85 Catalog 9-1773447-9 Dimensions are in inches and Dimensions are shown for USA: 1-800-522-6752 South America: 55-11-2103-6000 Revised 01-09 millimeters unless otherwise Canada: 1-905-470-4425 Hong Kong: 852-2735-1628 reference purposes only. Specifications subject Mexico: 52-55-1106-0800 Japan: 81-44-844-8013 specified. Values in brackets UK: 44-208-420-8341

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are metric equivalents.

to change.

C. America: 57-1-254-4444

RHW (Continued)

Product Dimensions

	Inside I	Diameter	Recovered W	all Thickness**
Size	Minimum Expanded as Supplied	Recovered After Heating	Nominal Jacket Wall	Nominal Adhesive Wall
9/3	9 [0.354]	3 [0.118]	2.0 [0.079]	0.25 [0.010]
13/4	13 [0.512]	4 [0.158]	2.4 [0.094]	0.30 [0.012]
20/6	20 [0.787]	6 [0.236]	2.5 [0.098]	0.35 [0.014]
33/8	33 [1.299]	8 [0.315]	3.2 [0.126]	0.35 [0.014]
43/12	43 [1.693]	12 [0.472]	4.3 [0.169]	0.40 [0.016]
51/16	51 [2.008]	16 [0.630]	4.5 [0.177]	0.40 [0.016]
70/21	70 [2.756]	21 [0.827]	4.4 [0.173]	0.40 [0.016]
85/25	85 [3.346]	25 [0.984]	4.3 [0.169]	0.40 [0.016]
105/30	105 [4.134]	30 [1.181]	4.3 [0.169]	0.45 [0.018]
130/36	130 [5.118]	36 [1.417]	4.3 [0.169]	0.45 [0.018]
160/50	160 [6.299]	50 [1.968]	4.3 [0.169]	0.45 [0.018]
180/50	180 [7.087]	50 [1.968]	4.3 [0.169]	0.50 [0.020]

**Wall thickness will be less if tubing recovery is restricted during shrinkage.

Ordering Information

Color	Standard	Black (-0)
Size selection	Always order the largest size Special order sizes are availa	that will shrink snugly over the component to be covered. able upon request.
Standard packaging***	1200mm lengths	
Marking		ne product name, size and batch number. also be marked with the UL Logo
Ordering description	Specify product name, size, RHW 20/6-1200/ADH-0 (AD	cut length, coating option and color (for example,)H = Adhesive-lined, 0= Black

***Europe only. Standard packaging 1000mm lengths

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Catalog 9-1773447-9 Revised 01-09

millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 52-55-1106-0800 C. America: 57-1-254-4444

RMW

Medium Wall, Polyolefin Heat-Shrinkable Tubing

Electronics

Product Facts

₹ Тусо

- Withstands mechanical abuse for increased product reliability
- Highly resistant to impact and abrasion
- Installation is fast and easy
- Resistant to chemicals and moisture
- Adhesive-lined version provides a complete moisture-proof seal preventing corrosion of underlying components
- RoHS compliant



Applications

Medium wall, general purpose RMW tubing is specifically designed for use in a broad range of low-voltage applications. RMW is tough and flexible, making it particularly suited for the insulation and protection of cable joints as well as for cable repair. Uncoated RMW provides insulation and strain relief. Adhesive-lined RMW also provides an environmental seal.

RMW is a suitable choice for applications where maximum reliability and product performance, and simplified installation are required. Because RMW is heat-shrinkable. a minimum number of sizes are needed to cover a wide range of cables and splice diameters.

Installation

Minimum shrink temperature: 110°C [230°F] Minimum full recovery temperature: 125°C [257°F]

Operating Temperature Range

-55°C to 110°C [-67°F to 230°F]

Specifications/Approvals

Series	Raychem
RMW	RMW SCD



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are metric equivalents.

to change.

C. America: 57-1-254-4444

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RMW (Continued)

Product Dimensions

	Inside Diameter		Recovered Wall Thickness**
Size	Minimum Expanded as Supplied	Recovered After Heating	Nominal Jacket Wall
10/3	10 [0.394]	3 [0.118]	1.0 [0.039]
16/5	16 [0.630]	5 [0.197]	1.4 [0.055]
25/8	25 [0.984]	8 [0.315]	2.0 [0.079]
35/12	35 [1.378]	12 [0.472]	2.0 [0.079]
50/16	50 [1.968]	16 [0.630]	2.0 [0.079]
63/19	63 [2.480]	19 [0.748]	2.4 [0.095]
75/22	75 [2.953]	22 [0.866]	2.7 [0.106]
85/25	85 [3.346]	25 [0.984]	2.8 [0.110]
95/29	95 [3.740]	29 [1.142]	3.1 [0.122]
115/34	115 [4.527]	34 [1.339]	3.1 [0.122]
140/42	140 [5.512]	42 [1.654]	3.1 [0.122]
160/50	160 [6.299]	50 [1.968]	3.2 [0.126]
180/60	180 [7.087]	60 [2.362]	3.2 [0.126]

**Wall thickness will be less if tubing recovery is restricted during shrinkage.

Ordering Information

Color	Standard	Black (-0)
Size selection	Always order the largest size Special order sizes are availa	that will shrink snugly over the component to be covered. able upon request.
Standard packaging***	1200mm lengths	
Marking	Tubing will be marked with th	e product name, size and batch number.
Ordering description	Specify product name, size, of 1200/ADH-0 or RMW 75/22-	cut length, coating option and color (for example, RMW 25/8- 1200/U-0 (ADH = Adhesive-lined, U = Uncoated, 0= Black)

***Europe only. Standard packaging 1000mm lengths

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Catalog 9-1773447-9 Revised 01-09

millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 52-55-1106-0800 C. America: 57-1-254-4444

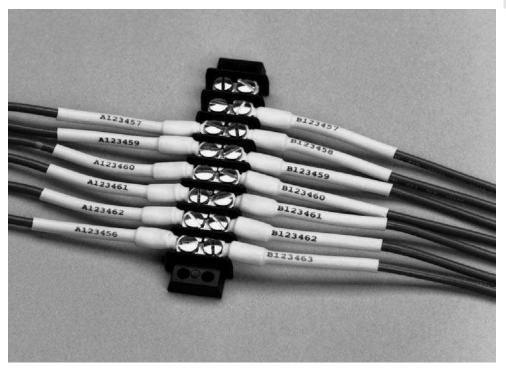
₹ Tyco Electronics

RNF-100

Flexible, Flame-Retardant, General Purpose, Polyolefin Tubing

Product Facts

- 2:1 shrink ratio
- Superior abrasion and solvent resistance when compared with that of many flexible, general purpose polyolefin tubings
- Excellent physical, chemical, and electrical properties that meet or exceed industrial and military standards for highly reliable, general purpose tubing
- Flexible; conforms to irregular shapes
- Flame-retardant (colors only)
- Wide range of sizes and colors
- RoHS compliant



Applications

Designed to provide superior mechanical (abrasion, cutthrough, and strain relief), thermal, and fluid-resistance performance in demanding environments. Widely used to provide insulation and strain relief of wire terminations and connections. Used for jacketing wire bundles and light-duty harnesses where superior abrasion resistance is a plus. Also used to identify and colorcode electrical connections and wire bundles.

Installation

Minimum shrink temperature: 95°C [203°F] Minimum full recovery temperature: 121°C [250°F]

Operating Temperature Range

-55°C to 135°C [-67°F to 275°F]

Specifications/Approvals

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Series	UL N	CSA 🚯	Military	Industry	Raychem
RNF-100 Type 1 (colors)	E35586 600 V, 125°C	LR31929 600 V, 125°C	AMS-DTL-23053/5*, Class 1 Def. Stan. 59-97 Type 2B	VDE 0341 Pt 9005 Type A and B	RT-350, Type 1 RK-6001
RNF-100 Type 2 (clear)	_	_	AMS-DTL-23053/5*, Class 2 VG 95343 Pt 5 Type B	_	RT-350, Type 2 RK-6001

*Formerly MIL-I-23053/5 and MIL-DTL-23053/5.

		Available in:	Americas	Europe	Asia Pacific	
			•		•	
						1-
Catalog 9-1773447-9 Revised 01-09	millimeters u	are in inches and unless otherwise Ilues in brackets	Dimensions are shown for reference purposes only. Specifications subject	USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 52-55-1106-0800	South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013	
www.tycoelectronics.com	are metric ec		to change.	C. America: 57-1-254-4444	UK: 44-208-420-8341	

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RNF-100 (Continued)

Product Dimensions

	Inside Diameter		Recovered Wall Thickness**
Size	Minimum Expanded as Supplied	Maximum Recovered After Heating	After Heating
3/64	1.2 [0.046]	0.6 [0.023]	0.40 ± 0.08 [0.016 ± 0.003]
1/16	1.6 [0.063]	0.8 [0.031]	0.43 ± 0.08 [0.017 ± 0.003]
3/32	2.4 [0.093]	1.2 [0.046]	0.51 ± 0.08 [0.020 ± 0.003]
1/8	3.2 [0.125]	1.6 [0.062]	0.51 ± 0.08 [0.020 ± 0.003]
3/16	4.8 [0.187]	2.4 [0.093]	0.51 ± 0.08 [0.020 ± 0.003]
1/4	6.4 [0.250]	3.2 [0.125]	0.64 ± 0.08 [0.025 ± 0.003]
3/8	9.5 [0.375]	4.8 [0.187]	0.64 ± 0.08 [0.025 ± 0.003]
1/2	12.7 [0.500]	6.4 [0.250]	0.64 ± 0.08 [0.025 ± 0.003]
3/4	19.1 [0.750]	9.5 [0.375]	0.76 ± 0.08 [0.030 ± 0.003]
1	25.4 [1.000]	12.7 [0.500]	0.89 ± 0.12 [0.035 ± 0.005]
1/4	31.8 [1.250]	15.9 [0.625]	1.02 ± 0.15 [0.040 ± 0.006]
1/2	38.1 [1.500]	19.1 [0.750]	1.02 ± 0.15 [0.040 ± 0.006]
2	50.8 [2.000]	25.4 [1.000]	1.14 ± 0.16 [0.045 ± 0.007]
3	76.2 [3.000]	38.1 [1.500]	1.27 ± 0.20 [0.050 ± 0.008]
4	101.6 [4.000]	50.8 [2.000]	1.40 ± 0.23 [0.055 ± 0.009]
5	127.0 [5.000]	63.5 [2.500]	1.52 ± 0.23 [0.060 ± 0.009]

**Wall thickness will be less if tubing recovery is restricted during shrinkage.

Ordering Information

Standard***	Black (-0, BK), white (-9, WH), red (-2, RD), blue (-6, BU), yellow (-4, YO), green (-5, GN), clear (-X, CL)
Nonstandard	Brown (-1, BN), orange (-3, OR), violet (-7, VT), gray (-8, GY)
Always order the largest siz Special order sizes are ava	ze that will shrink snugly over the component to be covered. ilable upon request
On spools or in 1.2-meter [4	4-foot] lengths.
Specify product name, size or RNF-100 1/4-BK [Americ	and color (for example, RNF-100 1/4-0 [Europe] cas].
	Nonstandard Always order the largest siz Special order sizes are ava On spools or in 1.2-meter [Specify product name, size

Green (-5, GN) is nonstandard in all sizes in Europe, and nonstandard in sizes 1-1/4 through 5-inches in Americas. *Available in the convenient Mini-Spool packaging/dispensing system, for sizes 3/64" up to 1". *****Europe only. For supply to MIL, Def Stan and BS add -MS, -DS or -BS to ordering description.

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Catalog 9-1773447-9 Revised 01-09

millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 52-55-1106-0800 C. America: 57-1-254-4444

Tyco Electronics

RNF-150

High-Performance, Flame-Resistant, Flexible, Fluoropolymer Tubing

Product Facts

- 2:1 shrink ratio
- Approximately 40 percent thinner walls than most general purpose polyolefin tubings
- High flame-resistance
- Excellent physical and electrical properties after exposure to many chemicals and solvents at 50°C [122°F] (but not recommended for use in direct contact with ketones)
- Recommended maximum temperature for use as a primary insulator: 135°C [275°F]

Specifications/Approvals

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RoHS compliant



Applications

Can be used for jacketing and bundling of wires to form light-duty harnesses, especially where a low profile, abrasion resistance, and flexibility are needed. Can also be used to provide insulation and strain relief of electrical connections and wire terminations, identification of wires, and packaging of components.

Installation

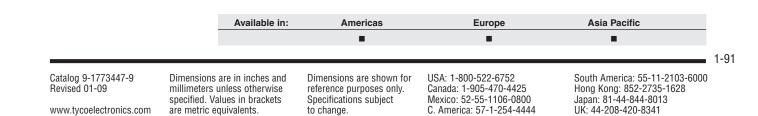
Minimum shrink temperature: 110°C [230°F] Minimum full recovery temperature: 150°C [302°F]

Operating Temperature Range

-55°C to 150°C [-67°F to 302°F]

Series	ul 🔊	Military	Raychem	
RNF-150	E35586 VW-1 600 V, 150°C	AMS-DTL-23053/18*, Class 2	RT-370	

*Formerly MIL-I-23053/18 and MIL-DTL-23053/18.



RNF-150 (Continued)

Product Dimensions

	Inside Diameter		Recovered Wall Thickness**
Size	Minimum Expanded as Supplied	Maximum Recovered After Heating	After Heating
3/64	1.2 [0.046]	0.6 [0.023]	0.25 ± 0.05 [0.010 ± 0.002]
1/16	1.6 [0.063]	0.8 [0.031]	0.25 ± 0.05 [0.010 ± 0.002]
3/32	2.4 [0.093]	1.2 [0.046]	0.25 ± 0.05 [0.010 ± 0.002]
1/8	3.2 [0.125]	1.6 [0.062]	0.25 ± 0.05 [0.010 ± 0.002]
3/16	4.8 [0.187]	2.4 [0.093]	0.25 ± 0.05 [0.010 ± 0.002]
1/4	6.4 [0.250]	3.2 [0.125]	0.30 ± 0.08 [0.012 ± 0.003]
3/8	9.5 [0.375]	4.8 [0.187]	0.30 ± 0.08 [0.012 ± 0.003]
1/2	12.7 [0.500]	6.4 [0.250]	0.30 ± 0.08 [0.012 ± 0.003]
3/4	19.1 [0.750]	9.5 [0.375]	0.43 ± 0.08 [0.017 ± 0.003]
1	25.4 [1.000]	12.7 [0.500]	0.48 ± 0.08 [0.019 ± 0.003]

**Wall thickness will be less if tubing recovery is restricted during shrinkage.

Ordering Information

Color	Standard	Black (-0)	
	Nonstandard	White (-9)	
Size selection	Always order the largest size that will shrink snugly over the component to be covere Special order sizes are available upon request.		
Standard packaging	On spools.		
Ordering description***	ion*** Specify product name, size and color (for example, RNF-150 1/4-0).		

***Europe only. For supply to MIL, Def Stan and BS add -MS, -DS or -BS to ordering description.

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Catalog 9-1773447-9 Revised 01-09

millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 52-55-1106-0800 C. America: 57-1-254-4444

₹ Тусо Electronics

RNF-3000

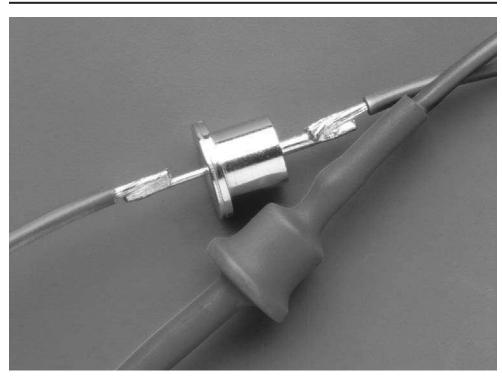
Flexible, High-Shrink-Ratio, Flame-Retardant, General Purpose, **Polyolefin Tubing**

Product Facts

- 3:1 shrink ratio easily accommodates awkward, irregular shapes
- Few sizes cover a wide range of diameters, allowing reduced inventory
- Excellent physical, chemical, and electrical properties meet industry standards for highly reliable, general purpose tubing
- Flame-retardant (colors only)

Specifications/Approvals

RoHS compliant



Installation

Minimum shrink

temperature: 80°C [176°F]

temperature: 120°C [248°F]

Minimum full recovery

Applications

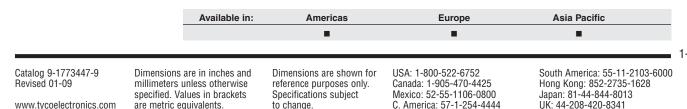
Used for insulation and strain relief of wire terminations and electrical connections. Also suitable for light-duty harnessing, jacketing, and identification of wires, cables, and electrical and electronic components.

Operating Temperature Range

-55°C to 135°C

[-67°F to 275°F]

Series	UL M	CSA 🚯	Military	Industry	Raychem
RNF-3000	E35586 600 V, 125°C	LR31929 600 V, 125°C	Def. Stan. 59-97 Type 2B VG 95343 Pt 5 Type A (color) VG 95343 Pt 5 Type B (clear)	VDE 0341 Pt 9005 Type A and B	RW-2053



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to change.

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RNF-3000 (Continued)

Product Dimensions

	Inside Diameter		Recovered Wall Thickness	
Size	Minimum Expanded as Supplied	Maximum Recovered After Heating	After Heating	
1.5/0.5	1.5 [0.060]	0.5 [0.019]	0.45 ± 0.10 [0.018 ± 0.003]	
3/1	3 [0.118]	1 [0.039]	0.55 ± 0.10 [0.022 ± 0.003]	
4.5/1.5	4.5 [0.177]	1.5 [0.059]	0.55 ± 0.10 [0.022 ± 0.003]	
6/2	6 [0.236]	2 [0.079]	0.65 ± 0.10 [0.026 ± 0.003]	
9/3	9 [0.354]	3 [0.118]	0.75 ± 0.12 [0.030 ± 0.004]	
12/4	12 [0.472]	4 [0.157]	0.75 ± 0.12 [0.030 ± 0.004]	
18/6	18 [0.709]	6 [0.236]	0.85 ± 0.12 [0.033 ± 0.004]	
24/8	24 [0.944]	8 [0.315]	1.00 ± 0.18 [0.039 ± 0.007]	
39/13	39 [1.534]	13 [0.512]	1.15 ± 0.20 [0.045 ± 0.008]	

*Wall thickness will be less if tubing recovery is restricted during shrinkage.

Ordering Information

Color	Standard**	Black (-0), white (-9), red (-2), blue (-6), yellow (-4), clear (-X)
	Nonstandard	Brown (-1), orange (-3), green (-5), violet (-7), gray (-8)
Size selection	Always order the largest size that will shrink snugly over the component to be covered. Special order sizes are available upon request.	
Standard packaging***	On spools or in 1.2-meter [4-foot] lengths.	
Ordering description**** Specify product name, size and color (for example, RNF-3000 6/2-0).		ame, size and color (for example, RNF-3000 6/2-0).

Black is the only standard color in the Americas. All other colors are nonstandard. *Only spools are standard in the Americas. 1.2 meter [4-foot] lengths are nonstandard. ****Europe only. For supply to Def Stan and BS add -DS or -BS to ordering description.

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Catalog 9-1773447-9 Revised 01-09

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Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 52-55-1106-0800 C. America: 57-1-254-4444

RP-4800

High-Shrink-Ratio, Flame-Retardant, Polyolefin Tubing

Product Facts

- 4:1 shrink ratio
- Conforms well to highly variable substrate dimensions
- Has excellent physical, chemical, and electrical properties that meet or exceed industrial and military standards
- Shows no significant degradation when exposed to common solvents and chemicals, including aviation fuel and hydraulic fluid
- RoHS compliant



Applications

Well-suited for repairing harnesses or cables; will pass over a large-diameter connector or transition, and then shrink down onto a smaller-diameter jacket. Can insulate or protect a substrate of varying dimensions. Also provides the abrasion and fluid resistance required in harnessing applications.

Installation

Minimum shrink temperature: 95°C [203°F] Minimum full recovery temperature: 121°C [250°F]

Operating Temperature Range

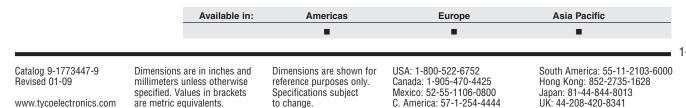
-55°C to 135°C [-67°F to 275°F]

Specifications/Approvals

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Series	UL N	Military	Industry	Raychem		
RP-4800	E35586 600V, 125°C (black only)	AMS-DTL-23053/5*, Class 1 Overexpanded VG 95343 Pt 5 Type A	VDE 0341 Pt 9005 Type A	RT-1122		
*Formerly MIL	*Formerly MII -1-23053/5 and MII -DTI -23053/5					

*Formerly MIL-I-23053/5 and MIL-DTL-23053/5.



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RP-4800 (Continued)

Product Dimensions

	Inside Diameter		Recovered Wall Thickness**
Size	Minimum Expanded as Supplied	Maximum Recovered After Heating	After Heating
No. 1	25.4 [1.000]	7.0 [0.275]	1.14 ± 0.18 [0.045 ± 0.007]
No. 2	50.8 [2.000]	14.0 [0.550]	1.14 ± 0.18 [0.045 ± 0.007]
No. 3	76.2 [3.000]	20.6 [0.810]	1.14 ± 0.18 [0.045 ± 0.007]
No. 4	101.6 [4.000]	26.7 [1.050]	1.14 ± 0.18 [0.045 ± 0.007]
No. 5	25.4 [1.000]	11.7 [0.462]	1.14 ± 0.18 [0.045 ± 0.007]
No. 6	60.3 [2.375]	17.3 [0.680]	1.14 ± 0.18 [0.045 ± 0.007]
No. 7	76.2 [3.000]	21.3 [0.840]	1.14 ± 0.18 [0.045 ± 0.007]
No. 8	95.3 [3.750]	23.6 [0.930]	1.14 ± 0.18 [0.045 ± 0.007]
No. 9	114.3 [4.500]	36.8 [1.450]	1.14 ± 0.18 [0.045 ± 0.007]
No. 10	38.1 [1.500]	9.5 [0.375]	1.14 ± 0.18 [0.045 ± 0.007]
No. 11	19.1 [0.750]	4.6 [0.180]	1.14 ± 0.18 [0.045 ± 0.007]

**Wall thickness will be less if tubing recovery is restricted during shrinkage.

Ordering Information

Color	Standard	Black (-0)	
	Nonstandard	White (-9), red (-2), blue (-6), yellow (-4), green (-5), brown (-1), orange (-3), violet (-7), gray (-8)	
Size selection	Always order the largest size that will shrink snugly over the component to be covered. Special order sizes are available upon request.		
Standard packaging	On spools or in 1.2-meter [4-foot] lengths.		
Ordering description*** Specify product name, size and color (for example, RP-4800 NO.1-0).			

***Europe only. For supply to MIL, Def Stan and BS add -MS, -DS or -BS to ordering description.

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Catalog 9-1773447-9 Revised 01-09

millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 52-55-1106-0800 C. America: 57-1-254-4444

Electronics

RPPM

Flexible, Dual Wall, Moisture-Proof, Heat-Shrinkable Tubing

Product Facts

- Environmental sealing
- Excellent mechanical strength
- Abrasion resistance
- 4:1 shrink ratio
- RoHS compliant



Applications

RPPM is a flexible, heatshrinkable, dual wall tubing with an integrally bonded meltable adhesive liner. Available in clear and black, the tough outer jacket offers excellent mechanical strength. RPPM is used for moisture-proof encapsulation of a wide variety of components. In particular, it adheres well to PVC. The high-shrink-ratio allows RPPM to be used with a range of dimensions. Clear RPPM offers excellent clarity for protection of substrates that may need to be inspected during service. Black RPPM has a high gloss finish suitable for cosmetic applications.

Installation

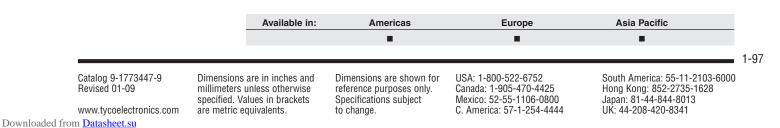
Minimum shrink temperature: 60°C [140°F] Minimum full recovery temperature: 80°C [176°F]

Operating Temperature Range

-40°C to 85°C [-40°F to 185°F]

Specifications/Approvals

Series	Raychem
RPPM	RK-6214



RPPM (Continued)

Product Dimensions

	Inside	Diameter	Recovered W	all Thickness*
Size	Minimum Expanded as Supplied	Maximum Recovered After Heating	Nominal Total Wall After Heating	Nominal Adhesive Wall After Heating
4/1	4.0 [0.158]	1.0 [0.039]	0.8 [0.032]	0.3 [0.012]
8/2	8.0 [0.315]	2.0 [0.079]	0.9 [0.035]	0.3 [0.012]
12/3	12.0 [0.472]	3.0 [0.118]	1.2 [0.047]	0.4 [0.016]
16/4	16.0 [0.630]	4.0 [0.158]	1.5 [0.059]	0.5 [0.020]

*Wall thickness will be less if tubing recovery is restricted during shrinkage.

Ordering Information

Color	Standard	Clear (-X)	
	Nonstandard	Black (-0)	
Size selection	Always order the largest size that will shrink snugly over the component to be covere Special order sizes are available upon request.		
Standard packaging	On spools, in 1.2 meter [4-foot] lengths or cut pieces.		
Ordering description	rdering description Specify product name, size and color (for example, RPPM 4/1-X).		

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millimeters unless otherwise specified. Values in brackets n are metric equivalents.

Dimensions are in inches and

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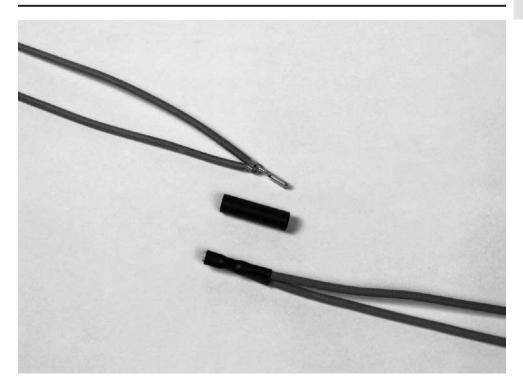
[₹] Tyco Electronics

RT-3

Semirigid, Flame-Retardant, Polyolefin Tubing

Product Facts

- 2.5:1 shrink ratio
- Tightly controlled expanded diameters
- High abrasion resistance
- Semirigidity that transfers flex stress away from typically weak points such as solder and crimp joints, helping to ensure a reliable connection
- Excellent chemical and solvent resistance
- Outstanding physical and electrical performance
- RoHS compliant



Applications

Suitable for wire strain-relief applications — soldered or crimped connections, wire splices, terminations. Well-suited for use with semiautomated production equipment requiring tubing with a tightly controlled expanded diameter. Acts as a tough covering for delicate components; provides mechanical protection.

Installation

Minimum shrink temperature: 110°C [230°F] Minimum full recovery temperature: 135°C [275°F]

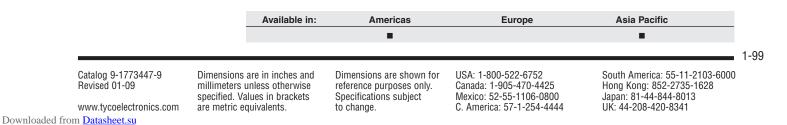
Operating Temperature Range

-55°C to 135°C [-67°F to 275°F]

Specifications/Approvals

Series	UL <table-cell></table-cell>	CSA 🚯	Raychem	
RT-3	E35586 600 V, 125°C	LR31929 (black only) 600 V, 125°C	RT-360*	

*Except dimensions and longitudinal change.



RT-3 (Continued)

Product Dimensions

	Inside D	Recovered Wall Thickness	
Size	Minimum Expanded as Supplied	Maximum Recovered After Heating	After Heating
No. 1	6.1 ± 0.4 [0.240 ± 0.015]	2.4 [0.095]	0.79 ± 0.08 [0.031 ± 0.003]
No. 2	8.1 ± 0.4 [0.320 ± 0.015]	3.2 [0.125]	0.79 ± 0.08 [0.031 ± 0.003]
No. 3	9.5 ± 0.5 [0.375 ± 0.020]	3.8 [0.150]	0.79 ± 0.08 [0.031 ± 0.003]
No. 4	12.3 ± 0.5 [0.485 ± 0.020]	5.1 [0.200]	0.79 ± 0.08 [0.031 ± 0.003]

**Wall thickness will be less if tubing recovery is restricted during shrinkage.

Ordering Information

Color	Black (-0) only
Size selection	Always order the largest size that will shrink snugly over the component to be covered. Special order sizes are available upon request.
Standard packaging	In 1-inch cut pieces or in 1.2-meter [4-foot] lengths.
Ordering description	Specify product name, size and color (for example, RT-3 No. 1-0).

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RT-375

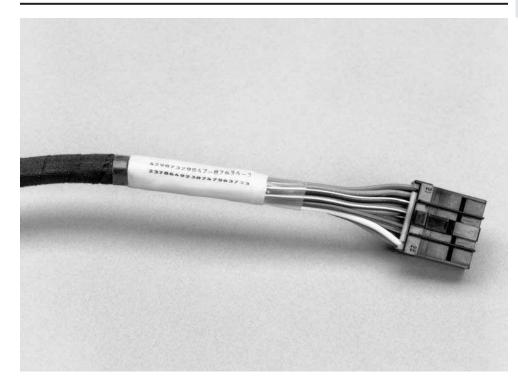
Clear, Flame-Resistant, Flexible, Fluoropolymer Tubing

Electronics

Product Facts

₹ Тусо

- 2:1 shrink ratio
- Exceptional clarity and clarity stability
- Toughness, chemical resistance, and high-temperature performance
- High flame-resistance
- Approximately 40 percent thinner walls than most general purpose polyolefin tubings
- Recommended maximum temperature for use as a primary insulator: 135°C [275°F]
- RoHS compliant



Applications

Protects wire and cable markers subject to extreme abuse, while permitting full inspectability of each item covered. Provides bundling and jacketing of wires and cables, protecting them from mechanical and chemical abuse. Protects electronic components while permitting their identification and inspection.

Installation

Minimum shrink temperature: 125°C [257°F] Minimum full recovery temperature: 150°C [302°F]

Operating Temperature Range

-55°C to 150°C [-67°F to 302°F]

Specifications/Approvals

Series	UL SN °	CSA 🚯	Military	Raychem
RT-375	E35586 VW-1 600 V, 150°C	LR31929 VW-1 600 V, 150°C	AMS-DTL-23053/18*, Class 2	RT-375
*				

*Formerly MIL-I-23053/18 and MIL-DTL-23053/18.



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are metric equivalents.

to change.

C. America: 57-1-254-4444

RT-375 (Continued)

Product Dimensions

	Inside Diameter		Recovered Wall Thickness**
Size	Minimum Expanded as Supplied	Maximum Recovered After Heating	After Heating
3/64	1.2 [0.046)	0.6 [0.023]	0.25 ± 0.05 [0.010 ± 0.002]
1/16	1.6 [0.063]	0.8 [0.031]	0.25 ± 0.05 [0.010 ± 0.002]
3/32	2.4 [0.093]	1.2 [0.046]	0.25 ± 0.05 [0.010 ± 0.002]
1/8	3.2 [0.125]	1.6 [0.062]	0.25 ± 0.05 [0.010 ± 0.002]
3/16	4.8 [0.187]	2.4 [0.093]	0.25 ± 0.05 [0.010 ± 0.002]
1/4	6.4 [0.250]	3.2 [0.125]	0.30 ± 0.08 [0.012 ± 0.003]
3/8	9.5 [0.375]	4.8 [0.187]	0.30 ± 0.08 [0.012 ± 0.003]
1/2	12.7 [0.500]	6.4 [0.250]	0.30 ± 0.08 [0.012 ± 0.003]
3/4	19.1 [0.750]	9.5 [0.375]	0.43 ± 0.08 [0.017 ± 0.003]
1	25.4 [1.000]	12.7 [0.500]	0.48 ± 0.08 [0.019 ± 0.003]

**Wall thickness will be less if tubing recovery is restricted during shrinkage.

Ordering Information

Color	Standard	Clear (-X)
Size selection	Always order the largest size Special order sizes are available	that will shrink snugly over the component to be covered. ble upon request.
Standard packaging	On spools.	
Ordering description***	Specify product name, size an	nd color (for example, RT-375 1/4-X).

***Europe only. For supply to MIL, Def Stan and BS add -MS, -DS or -BS to ordering description.

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Catalog 9-1773447-9 Revised 01-09

millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 52-55-1106-0800 C. America: 57-1-254-4444

RT555

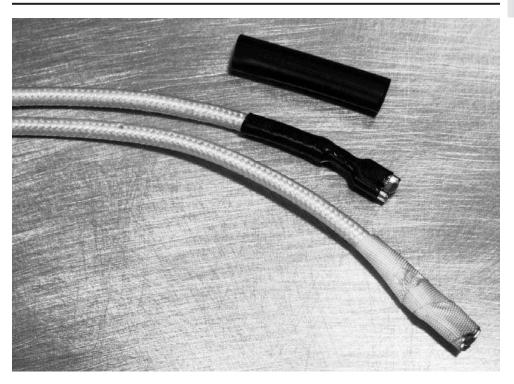
Fluid-Resistant, Chemical-Resistant, Crosslinked Fluoropolymer Tubing with Extended Temperature Range

Electronics

Product Facts

₹ Тусо

- Resistance to high temperatures, solvents, corrosive chemicals, and radiation
- Extreme resistance to hydrocarbons
- Low outgassing (successfully tested for NASA outgassing requirements)
- Highly flame-retardant
- 40 percent lighter weight than tubing made with Viton® fluoroelastomer
- System 300 tubing
- RoHS compliant



Applications

Suitable for commercial applications requiring heat resistance (electrical and hydraulic systems near aircraft or automotive engines or in fuel tanks), applications in chemically exposed environments (industrial process equipment in the pulp and paper, steel, and chemical industries), and equipment for handling caustic or dangerous chemicals or inks. Use for insulation and strain relief on appliances (electric ranges, microwave ovens, gas grills, and industrial paint-drying equipment) and for protection of delicate electronic instruments in down-hole applications.

Installation

Minimum shrink temperature: 150°C [302°F] Minimum full recovery

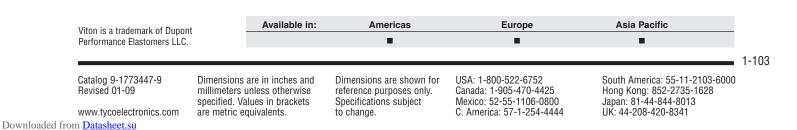
temperature: 220°C [428°F]

Operating Temperature Range

-65°C to 200°C [-85°F to 392°F]

Specifications/Approvals

Series	ur An	Raychem
RT555	Listed for 185°C for 100,000-hr continuous use (File E85381) Listed for 200°C for 40,000-hr cumulative intermittent exposure	RT-555



RT555 (Continued)

Product Dimensions

	Inside diameter		Recovered wall thickness*		
Size	Minimum expanded	Maximum recovered	After heating		
	as supplied	after heating	Minimum	Maximum	Nominal
1/8	3.18 [0.125]	1.57 [0.062]	0.25 [0.010]	0.41 [0.016]	0.30 [0.012]
3/16	4.75 [0.187]	2.36 [0.093]	0.28 [0.011]	0.46 [0.018]	0.36 [0.014
1/4	6.35 [0.250]	3.18 [0.125]	0.33 [0.013]	0.51 [0.020]	0.41 [0.016
3/8	9.53 [0.375]	4.75 [0.187]	0.41 [0.016]	0.58 [0.023]	0.48 [0.019
1/2	12.70 [0.500]	6.35 [0.250]	0.41 [0.016]	0.58 [0.023]	0.48 [0.019
5/8	15.88 [0.625]	7.95 [0.313]	0.48 [0.019]	0.66 [0.026]	0.56 [0.022
3/4	19.05 [0.750]	9.53 [0.375]	0.61 [0.024]	0.79 [0.031]	0.69 [0.027
1	25.40 [1.000]	12.70 [0.500]	0.71 [0.028]	0.89 [0.035]	0.79 [0.031
1 1/4	31.75 [1.250]	15.88 [0.625]	0.76 [0.030]	0.94 [0.037]	0.84 [0.033
1 1/2	38.10 [1.500]	19.05 [0.750]	0.86 [0.034]	1.04 [0.041]	0.94 [0.037
2	50.80 [2.000]	25.40 [1.000]	0.94 [0.037]	1.12 [0.044]	1.02 [0.040]

*Wall thickness will be less if tubing recovery is restricted during shrinkage.

Ordering Information

Color	Standard	Black (-0)
Size selection		st size that will shrink snugly over the component to be covered.
Standard packaging	On spools.	
Ordering description	Specify product name,	size and color (for example, RT555 1/8-0).

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Catalog 9-1773447-9 Revised 01-09

millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 52-55-1106-0800 C. America: 57-1-254-4444

RW-175

High-temperature, Chemical-Resistant, Polyvinylidene Fluoride Tubing

Electronics

Product Facts

₹ Тусо

- 2:1 shrink ratio
- Tough, semirigid, very-thinwall insulation
- High flame-resistance, meeting the requirements of AMS-DTL-23053*, Test C, with UL and CSA VW-1 rating
- High-temperature performance that meets or exceeds military and industrial standards
- Protection from most industrial solvents, fuels, and chemicals
- Recommended maximum temperature for use as a primary insulator: 135°C [275°F]
- RoHS compliant



Applications

Especially suitable for applications requiring hightemperature performance, outstanding abrasion resistance and cut-through resistance, or superior chemical and solvent properties. Provides electrical insulation and strain relief of multipin connectors and solder joints. Well-suited for applications that require dense packing of components or visual inspection of covered components.

Installation

Minimum shrink temperature: 155°C [311°F] Minimum full recovery temperature: 175°C [347°F]

Operating Temperature Range

-55°C to 175°C [-67°F to 347°F]

Specifications/Approvals

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Series	ul N	CSA 🚯	Military	Industry	Raychem
RW-175	E35586 VW-1 600 V, 150°C	LR31929 VW-1 600 V, 150°C	AMS-DTL-23053/8* Def. Stan. 59-97 Type 3 VG 95343 Pt 5 Type F BS 3G 198 Pt4	VDE 0341 Pt 9005	RW-3029/1 RW-3029/2

*Formerly MIL-I-23053 and MIL-DTL-23053/8.



RW-175 (Continued)

Product Dimensions

	Inside I	Recovered Wall Thickness**	
Size	Minimum Expanded as Supplied	Maximum Recovered After Heating	After Heating
3/64	1.2 [0.046]	0.6 [0.023]	0.25 ± 0.05 [0.010 ± 0.002]
1/16	1.6 [0.063]	0.8 [0.031]	0.25 ± 0.05 [0.010 ± 0.002]
3/32	2.4 [0.093]	1.2 [0.046]	0.25 ± 0.05 [0.010 ± 0.002]
1/8	3.2 [0.125]	1.6 [0.062]	0.25 ± 0.05 [0.010 ± 0.002]
3/16	4.8 [0.187]	2.4 [0.093]	0.25 ± 0.05 [0.010 ± 0.002]
1/4	6.4 [0.250]	3.2 [0.125]	0.33 ± 0.05 [0.013 ± 0.002]
3/8	9.5 [0.375]	4.8 [0.187]	0.33 ± 0.05 [0.013 ± 0.002]
1/2	12.7 [0.500]	6.4 [0.250]	0.33 ± 0.05 [0.013 ± 0.002]
3/4	19.1 [0.750]	9.5 [0.375]	0.43 ± 0.08 [0.017 ± 0.003]
1	25.4 [1.000]	12.7 [0.500]	0.48 ± 0.08 [0.019 ± 0.003]
1 1/2	38.1 [1.500]	19.1 [0.750]	0.51 ± 0.08 [0.020 ± 0.003]

**Wall thickness will be less if tubing recovery is restricted during shrinkage.

Ordering Information

Color	Standard	Clear (-X)
	Nonstandard	Black (-0)
Size selection	Always order the largest size t Special order sizes are available	that will shrink snugly over the component to be covered. ble upon request.
Standard packaging	In 1.2-meter [4-foot] lengths.	
Ordering description***	Specify product name, size an	nd color (for example, RW-175 3/64-X).
	I.	

***Europe only. For supply to MIL spec., Def Stan and BS add -MS, -DS or -BS to ordering description.

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Catalog 9-1773447-9 Revised 01-09

millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

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USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 52-55-1106-0800 C. America: 57-1-254-4444

₹ Tyco Electronics

RW-200/RW-200-E

Heat-Shrinkable, Chemical-Resistant, High-Temperature Tubing

Product Facts

- High resistance to impact and abrasion
- Resistance to a wide variety of fuels, lubricants, acids, and solvents at elevated temperatures
- Flexibility at low temperatures without cracking
- RoHS compliant



Applications

Raychem premium heatshrinkable tubing is fabricated from Viton® fluoroelastomers – a crosslinked material designed for a wide range of applications. It is available in two configurations. RW-200-E is the thickest wall version. RW-200 has the thinnest wall for lighter weight applications. Offering fluid resistance, RW-200 tubing can be used in applications up to 200°C [392°F].

Installation

Minimum shrink temperature: 100°C [212°F] Minimum full recovery temperature: 175°C [347°F]

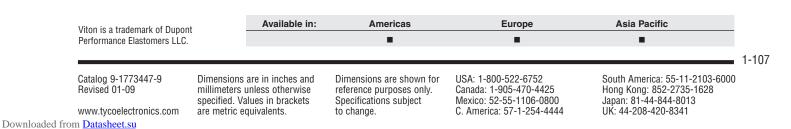
Operating Temperature Range

RW-200: -40°C* to 200°C [-40°F to 392°F] RW-200-E: -55°C to 200°C [-67°F to 392°F]

Specifications/Approvals

Series	Military	Raychem
RW-200	AMS-DTL 23053/13*	RW-3037
RW-200-E	Def. Stan. 59-97 Issue 3 Type 4A VG 95343 Part 5 Type E VDE 0341/Pt9005 BS 4G-198 Part 3 12A	RW-3037

*Formerly MIL-I-23053/13 and MIL-DTL-23053/13.



RW-200/RW-200-E (Continued)

Product Dimensions

	Inside [Diameter	Recovered	Nall Thickness**
Size	Minimum Expanded as Supplied	Maximum Recovered After Heating	After Heatin RW-200-E	g (Nominal) RW-200
1/8	3.2 [0.125]	1.6 [0.062]	0.76 [0.030]	0.76 [0.030]
3/16	4.8 [0.187]	2.4 [0.093]	0.84 [0.033]	0.89 [0.035]
1/4	6.4 [0.250]	3.2 [0.125]	0.89 [0.035]	0.89 [0.035]
3/8	9.5 [0.375]	4.8 [0.187]	1.02 [0.040]	0.89 [0.035]
1/2	12.7 [0.500]	6.4 [0.250]	1.22 [0.048]	0.89 [0.035]
5/8	15.9 [0.625]	7.9 [0.312]		1.07 [0.042]
3/4	19.1 [0.750]	9.5 [0.375]	1.45 [0.057]	1.07 [0.042]
7/8	22.2 [0.875]	11.1 [0.437]	_	1.25 [0.049]
1	25.4 [1.000]	12.7 [0.500]	1.78 [0.070]	1.25 [0.049]
1 1/4	31.8 [1.250]	15.9 [0.625]	_	1.40 [0.055]
1 1/2	38.1 [1.500]	19.1 [0.750]	2.41 [0.095]	1.40 [0.055]
2	50.8 [2.000]	25.4 [1.000]	2.79 [0.110]	1.65 [0.065]

**Wall thickness will be less if tubing recovery is restricted during shrinkage.

Ordering Information

Color	Standard	Black (-0)		
Size selection	Always order the largest size that will shrink snugly over the component to be cover Special order sizes are available upon request.			
Standard packaging	On spools.			
Ordering description***	Specify product name, size a	nd color (for example, Viton 1/4-0).		

***Europe only. For supply to MIL, Def Stan and BS add -MS, -DS or -BS to ordering description.

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Catalog 9-1773447-9 Revised 01-09

millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 52-55-1106-0800 C. America: 57-1-254-4444

RayBlock 85 (Continued)

Product Dimensions

D. I	N	Profile			1	Tubing nside Diamete	r
Part No.	No. of Channels	Outside Height	Length	Width	Minimum Expanded as Supplied	Maximum Recovered After Heating	Nominal Length
RayBlock 85 Kit 0102-A0) 2	8.5 [0.335]	2.75 [0.108]	8.50 [0.335]	12.0 [0.472]	3.0 [0.118]	40 [1.57]
RayBlock 85 Kit 0203-A0) 3	8.5 [0.335]	2.75 [0.108]	12.25 [0.482]	24.0 [0.945]	6.0 [0.236]	47 [1.85]
RayBlock 85 Kit 0504-A0) 4	8.5 [0.335]	2.75 [0.108]	16.00 [0.630]	16.0 [0.630]	4.0 [0.158]	40 [1.57]
RayBlock 85 Kit 0405-A0) 5	8.5 [0.335]	2.75 [0.108]	19.75 [0.778]	24.0 [0.945]	6.0 [0.236]	45 [1.77]
RayBlock 85 Kit 0107-A0) 7	8.5 [0.335]	2.75 [0.108]	27.25 [1.070]	24.0 [0.945]	6.0 [0.236]	65 [2.56]
RayBlock 85 Kit 0510-A0) 10	8.5 [0.335]	2.75 [0.108]	38.50 [1.520]	32.0 [1.260]	8.0 [0.315]	55 [2.17]

Ordering Information

Color	Standard	Black (-0)	
Size selection	For wire with an outside use a maximum of two w	diameter smaller than 2.8 [0.110] , <i>r</i> ires per channel.	
	For wire with an outside use a maximum of one v	diameter of 2.8–3.5 [0.110 to 0.138], vire per channel.	
	Special order sizes are a	available upon request.	
Standard packaging	One kit (contains 1000 p	cs. of profile and 1000 pcs. of tubing).	

Catalog 9-1773447-9 Revised 01-09

millimeters unless otherwise specified. Values in brackets m are metric equivalents.

Dimensions are in inches and

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 52-55-1106-0800 C. America: 57-1-254-4444

RayBlock 105

Heat-Shrinkable Water-Blocking System

Electronics

Product Facts

₹ Тусо

- Environmentally seals wire bundles of up to 20 wires
- Withstands temperature excursions to 120°C [248°F]
- Provides excellent strain relief and reduces noise
- Offers a low-profile installed product only marginally larger than the cable bundle itself
- RoHS compliant



Applications

Designed to provide consistent sealing for cable bundles and the back of connectors. The wires in the bundle are placed within the channels of a specially formulated hot-melt adhesive profile, and then covered by dual wall, heatshrinkable tubing with a flame-retardant radiationcrosslinked outer wall and hot-melt-adhesive inner wall. When the tubing is heated, the hot-melt adhesive melts and the tubing shrinks, forcing the molten adhesive to fill all the voids within the wire bundle and tubing. The result is a solid plug of adhesive molded around each wire in the bundle, creating a moisture-resistant seal.

Installation

Minimum shrink temperature: 80°C [176°F] Minimum full recovery

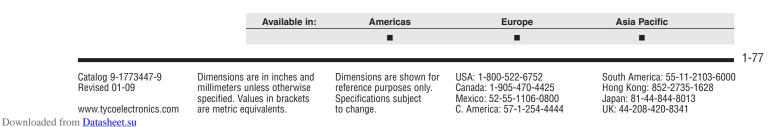
temperature: 110°C [230°F]

Operating Temperature Range

-40°C to 105°C [-40°F to 221°F]

Specifications/Approvals

Series	Raychem
RayBlock 105	RayBlock 105 SCD RW-2102



RayBlock 105 (Continued)

Product Dimensions

			Profile			Tubing nside Diamete	r
Part No.	No. of Channels	Outside Height	Length	Width	Minimum Expanded as Supplied	Maximum Recovered After Heating	Nominal Length
RayBlock 105 Kit 0102-A	0 2	8.5 [0.335]	2.75 [0.108]	8.50 [0.335]	12.0 [0.472]	3.0 [0.118]	40 [1.57]
RayBlock 105 Kit 0103-A	0 3	8.5 [0.335]	2.75 [0.108]	12.25 [0.482]	16.0 [0.630]	4.0 [0.158]	40 [1.57]
RayBlock 105 Kit 0504-A	0 4	8.5 [0.335]	2.75 [0.108]	16.00 [0.630]	16.0 [0.630]	4.0 [0.158]	45 [1.77]
RayBlock 105 Kit 0105-A	0 5	8.5 [0.335]	2.75 [0.108]	19.75 [0.778]	24.0 [0.945]	6.0 [0.236]	45 [1.77]
RayBlock 105 Kit 0107-A	0 7	8.5 [0.335]	2.75 [0.108]	27.20 [1.070]	24.0 [0.945]	6.0 [0.236]	65 [2.56]
RayBlock 105 Kit 0110-A	0 10	8.5 [0.335]	2.75 [0.108]	38.50 [1.520]	32.0 [1.260]	8.0 [0.315]	65 [2.56]

Ordering Information

Color	Standard	Black (-0)
Size selection	For wire with an outside dia wires per channel.	meter smaller than 2.8 [0.110], use a maximum of two
	For wire with an outside dian wire per channel.	meter of 2.8–3.5 [0.110–0.138], use a maximum of one
	Special order sizes are avai	lable upon request.
Standard packaging	One kit (contains 1000 pcs.	of profile and 1000 pcs. of tubing).

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millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

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USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 52-55-1106-0800 C. America: 57-1-254-4444

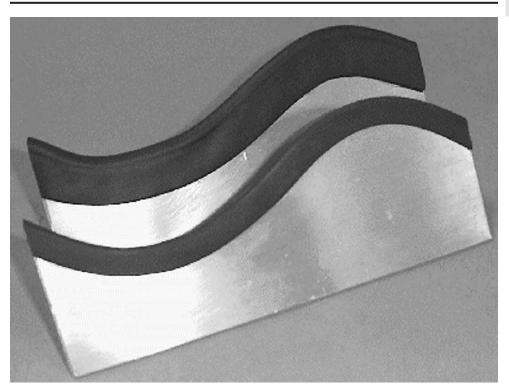
Electronics

Rayrim Edging Material

Commercial Protective, Self-Adhering, Edging Material

Product Facts

- Flexible to allow for protection of curved edges
- RoHS compliant



Applications

Raychem Rayrim edging material is an extruded strip internally coated with a heat activated adhesive, so that on heating the profile changes from a "V" to a "U" section and the adhesive bonds to the substrate profile.

Manufactured from a Raychem radiation crosslinked polyolefin material, the profile offers a clean and rapid means of covering metal, wood and glass edges for all-round protection. The flexible nature of the product allows application to both internal and external radii, as well as straight edges, and the continuous operating temperature of -55°C to +80°C [-67°F to 176°F] means that the product can give protection under the most testing circumstances.

Installation

Minimum shrink temperature: 120°C [248°F] Minimum full recovery

temperature: 150°C [302°F]

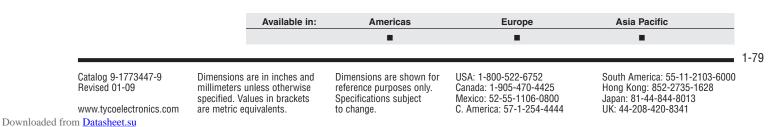
Operating Temperature Range

-55°C to 80°C [-67°F to 176°F]

Specifications/Approvals

 Series
 Raychem

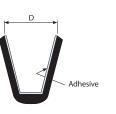
 Rayrim
 RK-6182

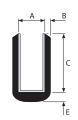


Dimensions are in inches and

Rayrim Edging Material (Continued)

Product Dimensions





Size	A (maximum)	B (minimum)	C (minimum)	D (minimum)	E (typical)
Nr. 6	0.6 [0.024]	0.5 [0.020]	3.5 [0.138]	0.8 [0.032]	1.25 [0.049]
Nr. 7	1.0 [0.039]	0.9 [0.035]	4.8 [0.189]	1.6 [0.063]	1.25 [0.049]
Nr. 8	2.0 [0.079]	0.9 [0.035]	6.6 [0.260]	2.5 [0.098]	2.25 [0.089]
Nr. 9	4.2 [0.165]	0.9 [0.035]	13.5 [0.532]	4.5 [0.177]	2.20 [0.087]

Application Range	Plate SWG	Thickness	Recommended minimum bend radius
	30-24	0.31-0.56 [0.012-0.022]	10 [0.394]
	23-16	0.61-1.63 [0.026-0.064]	15 [0.591]
	15-10	1.83-3.25 [0.072-0.128]	20 [0.787]
	9-5	3.66-5.38 [0.144-0.212]	25 [0.984]

Ordering Information

Color	Standard	Black (-0)
Size selection	Always order the lar	rgest size that will shrink snugly on edge of the panel.
Standard packaging	1.2-meter [4-foot] le	ngths.
Ordering description	Specify product nan	ne, size number and color (for example, Rayrim Nr.6-0).

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RaySpool

Convenient packaging and dispensing system for heatshrinkable tubing

Electronics

Product Facts

€Тусо

- Easy to store
- Easy to dispense
- Well-suited for repairs
- Single wall and adhesivelined tubings
- Wide variety of colors, sizes and kits available
- Also available are RaySpool kits comprised of 6 sizes and supplied with a mounting rack
- Stand alone racks and packaging sets also available
- RoHS compliant



Applications

The RaySpool system offers a convenient packaging and dispensing option for a range of heat-shrinkable tubings. The tubing is supplied on small reels which are overboxed and feature a dispensing window allowing the tubing to be easily and readily accessed. The RaySpool system is a suitable method of storing and for use in the workshop, service vehicle or laboratory. A varied selection of tubings is offered which will cover a diverse range of

applications including electrical insulation, strain relief, cable bundling and environmental protection. RaySpool packaging is available for CGPT, LSTT and CGAT.

Installation

See individual product pages.

Operating Temperature Range

See individual product pages.

Specifications/Approvals

See individual product pages.

Available in: Americas Europe Asia Pacific 1-81 Catalog 9-1773447-9 Dimensions are shown for USA: 1-800-522-6752 South America: 55-11-2103-6000 Dimensions are in inches and Revised 01-09 millimeters unless otherwise Canada: 1-905-470-4425 Hong Kong: 852-2735-1628 reference purposes only. Mexico: 52-55-1106-0800 Japan: 81-44-844-8013 specified. Values in brackets UK: 44-208-420-8341

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are metric equivalents.

Specifications subject to change.

C. America: 57-1-254-4444

RaySpool (Continued)

CGPT 2:1 Product Dimensions		Inside	Diameter	Recovered Wall Thickness*			
	Size	Minimum Expanded as Supplied	Maximum Recovered After Heating	After Heating	Spool Quantity - Black (meters)	Spool Quantity - Green/Yellow (meters)	Ordering Description
	1.6/0.8	1.6 (0.062)	0.8 (0.031)	0.45 ± 0.12	10.0	-	CGPT-R-1.6-col code
	2.4/1.2†	2.4 (0.093)	1.2 (0.046)	0.50 ± 0.12	10.0	-	CGPT-R-2.4-col code
	3.2/1.6†•	3.2 (0.125)	1.6 (0.062)	0.50 ± 0.12	10.0	5.0	CGPT-R-3.2-col code
	4.8/2.4†	4.8 (0.187)	2.4 (0.093)	0.50 ± 0.12	9.0	-	CGPT-R-4.8-col code
	6.4/3.2†•	6.4 (0.250)	3.2 (0.125)	0.65 ± 0.15	8.0	3.5	CGPT-R-6.4-col code
	9.5/4.8•	9.5 (0.375)	4.8 (0.187)	0.65 ± 0.15	6.0	3.0	CGPT-R-9.5-col code
	12.7/6.4†•	12.7 (0.500)	6.4 (0.250)	0.65 ± 0.15	6.0	2.5	CGPT-R-12.7-col code
	19/9.5•	19.0 (0.748)	9.5 (0.375)	0.75 ± 0.15	5.0	2.0	CGPT-R-19.0-col code
	25.4/12.7†•	25.4(1.000)	12.7 (0.500)	0.90 ± 0.20	3.0	1.5	CGPT-R-25.4-col code
	KIT CONTA	INS SIZES INI	DICATED BY †				CGPT-R-KIT-2

Wall thickness will be less if tubing recovery is restricted during shrinkage.

Ordering Information

Color	Standard	Black (-0) Green/yellow (-45) available in sizes indicated by •
Size selection	Always order the largest size	that will shrink snugly over the component to be covered.
Standard packaging	On mini spools.	
Ordering description	See above for description	

CGPT 3:1 Product Dimensions		Inside Diameter				
	Size	Minimum Expanded as Supplied	Maximum Recovered After Heating	After Heating	Spool Quantity (meters)	Ordering Description
	3/1†	3.0 (0.118)	1.0 (0.040)	0.55 ± 0.12	10.0	CGPT-R-3/1-col code
	6/2†	6.0 (0.236)	2.0 (0.079)	0.65 ± 0.12	7.0	CGPT-R-6/2-col code
	9/3†	9.0 (0.354)	3.0 (0.118)	0.75 ± 0.15	5.0	CGPT-R-9/3-col code
	12/4†	12.0 (0.472)	4.0 (0.157)	0.75 ± 0.15	4.0	CGPT-R-12/4-col code
	18/6†	18.0 (0.709)	6.0 (0.236)	0.85 ± 0.15	3.0	CGPT-R-18/6-col code
	24/8†	24.0 (0.945)	8.0 (0.315)	1.00 ± 0.20	3.0	CGPT-R-24/8-col code
	KIT CONTA	INS SIZES INDICAT	ED BY † (black only	()		CGPT-R-KIT-1

Ordering Information

Color	Standard	Black (-0) Red (-2) Yellow (-4) Blue (-6)	
Size selection	Always order the largest size that will shrink snugly over the component to be covered.		
Standard packaging	On mini spools.		
Ordering description	See above for desci	ription	

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RaySpool (Continued)

LSTT 2:1 Product Dimensions

Inside Diame		Diameter	Recovered Wall Thickness*		
Size	Minimum Expanded as Supplied	Maximum Recovered After Heating	After Heating	Spool Quantity - Black (meters)	Ordering Description
2.4/1.2†	2.4 (0.093	1.2 (0.046)	0.55 ± 0.12	10.0	LSTT-R-2.4-0
3.2/1.6†	3.2 (0.125)	1.6 (0.062)	0.55 ± 0.12	10.0	LSTT-R-3.2-0
4.8/2.4†	4.8 (0.187)	2.4 (0.093)	0.55 ± 0.12	9.0	LSTT-R-4.8-0
6.4/3.2†	6.4 (0.250)	3.2 (0.125)	0.65 ± 0.15	8.0	LSTT-R-6.4-0
9.5/4.8	9.5 (0.375)	4.8 (0.187)	0.65 ± 0.15	6.0	LSTT-R-9.5-0
12.7/6.4†	12.7 (0.500)	6.4 (0.250)	0.65 ± 0.15	6.0	LSTT-R-12.7-0
19/9.5	19.0 (0.748)	9.5 (0.375)	0.80 ± 0.15	5.0	LSTT-R-19.0-0
25.4/12.7†	25.4(1.000)	12.7 (0.500)	0.95 ± 0.18	3.0	LSTT-R-25.4-0
KIT CONTAIN	NS SIZES INDICAT	ED BY † (black only)			LSTT-R-KIT-1

*Wall thickness will be less if tubing recovery is restricted during shrinkage.

Ordering Information

Color	Standard	Black (-0)
Size selection	Always order the largest size t	hat will shrink snugly over the component to be covered.
Standard packaging	On mini spools.	
Ordering description	See above for description	

CGAT 3:1 Product Dimensions		Inside I	Diameter	Recovered Wall Thickness* After Heating	Spool Quantity (meters)	Ordering Description
	Size	Minimum Expanded as Supplied	Maximum Recovered After Heating			
	3/1†	3.0 (0.118)	1.0 (0.040)	1.00 ± 0.25	5.0	CGAT-R-3/1-0
	6/2†	6.0 (0.236)	2.0 (0.079)	1.00 ± 0.25	3.5	CGAT-R-6/2-0
	9/3†	9.0 (0.354)	3.0 (0.118)	1.35 ± 0.25	3.0	CGAT-R-9/3-0
	12/4†	12.0 (0.472)	4.0 (0.157)	1.50 ± 0.25	2.5	CGAT-R-12/4-0
	18/6†	18.0 (0.709)	6.0 (0.236)	1.70 ± 0.25	2.0	CGAT-R-18/6-0
	24/8†	24.0 (0.945)	8.0 (0.315)	1.90 ± 0.25	1.5	CGAT-R-24/8-0
	KIT CONTA	INS SIZES INDICAT	ED BY † (black only))		CGAT-R-KIT-1

Ordering Information

Color	Standard Black (-0)		
Size selection	Always order the largest size that will shrink snugly over the component to be covered.		
Standard packaging	On mini spools.		
Ordering description	See above for description		

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