

Heat Shrink Tubing Selection Guide

Single Wall

<i>Product</i>	<i>Operating Temp °C</i>	<i>Shrink Ratio</i>	<i>Product Description</i>	<i>Features</i>	<i>Size Range mm</i>	<i>Standard Colours</i>	<i>Typical Applications</i>
CGPT	-40 to 135	2:1 3:1	Flexible, flame-retardant polyolefin tubing	Very good chemical and solvent resistance with excellent physical and electrical performance.	1.2 – 102.0	Black, White, Clear, Red, Blue, Yellow, Green.	Strain relief, insulation, mechanical protection of components and wires. Colour coding and identification.
CRN	-55 to 135	2:1	Semi-rigid polyolefin tubing	High abrasion resistance. Transfers flex stress away from weak points Excellent chemical and solvent-resistance properties	1.2 - 19.1	Black	Strain relief, insulation and mechanical protection of soldered or crimped connections, wire splices and terminations.
DCPT	-55 to 135	2:1	Flexible, flame-retardant, dual-colour polyolefin tubing	Colour permanence superior to conventional ink marking.	3.0 - 38.0	Yellow / Green Stripe	Identification of "ground" on wires and cables
RNF-100	-55 to 135	2:1	Flexible, flame-retardant general purpose polyolefin tubing	Excellent physical, chemical and electrical properties. Superior Abrasion and solvent resistance	1.2 - 127.0	Black, White, Blue, Yellow, Green, Clear	Insulation and strain relief of wire terminations and connections. Jacketing wire bundles and harnesses where superior abrasion resistance is a plus. Protection of wire markers (clear).
RNF-3000	-55 to 135	3:1	Flexible, flame-retardant general purpose polyolefin tubing.	Easily accommodates irregular shapes	1.5 - 39.0	Black	Insulation and strain relief of wire terminations and electrical connections. Electrical and mechanical protection of components with irregular dimensions
RP-4800	-55 to 135	4:1	Flexible, flame-retardant general purpose polyolefin tubing	Conforms well to variable substrate dimensions. Excellent physical, chemical & electrical properties	19.1 - 114.3	Black	Repair of harness and cable jackets; will pass over large-diameter connectors or transitions then shrink tightly on harnesses and cables
RT-3	-55 to 135	2.5:1	Semi-rigid, flame-retardant polyolefin tubing	Excellent mechanical properties. Transfer flex stress away from weak points	6.1 - 12.3	Black	Strain relief, insulation & mechanical protection of connections & components
VERSAFIT	-55 to 135	2:1	Highly flame-retardant, very flexible polyolefin tubing	UL/CSA VW-1 rated Low Shrink Temperature	1.2 - 101.6	Black, White, Red, Blue, Yellow, Green	Insulation & protection of in-line components, wire splices& terminations
VERSAFIT V2	-30 to 125	2:1	Highly flame-retardant, very flexible polyolefin tubing	UL/CSA VW-1 rated Low Shrink Temperature	0.8 - 30.0	Black	Use where UL/CSA VW-1 flame rating is necessary.
VERSAFIT V4	-30 to 125	2:1	Very Thin wall, highly flame-retardant polyolefin tubing	UL/CSA VW-1 rated Low Shrink Temperature	1.0 - 25.4	Black	Especially suited to covering temperature sensitive components

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Dual Wall

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ATUM	-55 to 110	3:1 4:1	Adhesive-lined, High Shrink ratio polyolefin tubing	Provides increased mechanical protection. Adhesive bonds to a wide variety of materials.	3.0 - 52.0	Black	Sealing and protection of connector backshells, break-outs and transitions. Cable repairs.
DWP-125	-40 to 110	3:1	Flexible, adhesive-lined, High Shrink ratio polyolefin tubing	Provides increased mechanical protection while maintaining flexibility.	3.2 - 50.8	Black	Sealing and protection of wire splices. Use where UL/CSA adhesive lined tubing is necessary.
ES1000	-40 to 130	4:1	Clear, high-shrink-ratio, adhesive-lined semi-rigid polyolefin tubing	Mechanically tough providing strain relief and abrasion protection.	5.72 -17.78	Clear	Specially designed for environmental sealing and electrical insulation where see-through inspection is required.
ES2000	-40 to 130	4:1	Flame-retardant, high-shrink-ratio, adhesive-lined semi-rigid polyolefin tubing	Flame-retardant and mechanically tough providing strain relief and abrasion protection.	5.72 -17.78	Black	Specially designed for environmental sealing and electrical insulation of wire splices, terminations and components.
FL2500	-40 to 135	4:1	Fully flame-retardant, high-shrink-ratio, adhesive-lined semi-rigid polyolefin tubing	4:1 shrink ratio allows a few sizes to cover a wide range of splice and component diameters.	7.62 - 17.79	Black	Fully flame-retardant and mechanically tough to provide strain relief and abrasion protection of wire splices, terminals, fuse links and in-line components.
HTAT	-55 to 125	4:1	Semi-flexible, high-shrink-ratio, adhesive-lined polyolefin tubing	Provides increased mechanical protection. High-temperature adhesive forms a strong bond to a variety of materials.	4.0 - 48.0	Black	Sealing and protection of connector backshells, break-outs and transitions at higher temperatures.
SCL	-55 to 110	3:1	Semi-rigid, encapsulant-lined polyolefin tubing	Splash-resistant, moisture-resistant covering. Provides rugged protection against abrasion, vibration and flexing.	3.2 -25.4	Black	Encapsulation of components, splices, and terminations where splash resistance and mechanical protection are required.
SCT	-40 to 150	4:1	Flame-retardant, adhesive-lined semi-rigid polyolefin tubing (extended temperature range)	Flame-retardant and mechanically tough. Adhesive wall forms a barrier against fluids and moisture at an extended temperature range.	7.6 -17.8	Black	Specially designed for insulation, strain relief and sealing of automotive wire splices and components in an under-hood automotive environment
TAT-125	-55 to 110	2:1	Flexible, adhesive-lined polyolefin tubing	Flexible adhesive lining and tubing jacket. Good mechanical strength and cut-through resistance. Adhesive bonds to a wide variety of materials.	3.2 -101.6	Black	Sealing and protection of simple in-line splices, bimetallic joints, and components from fluids, moisture, and corrosion.

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Medical Grade USP Class VI

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MicroFit	-55 to 175 -40 to 105	2:1 3:1	Small diameter, high shrink ratio polyolefin or fluoropolymer tubing	Available in very small diameters with thin walls.	0.356 - 1.143	Translucent, Black, Clear	Insulation, mechanical protection and strain relief in smaller, more compact medical devices and commercial electronics products
MT1000	-55 to 175	2:1	High temperature, semi-rigid fluoropolymer tubing	Tough, semi-rigid, very thin wall insulation. Compatible with gamma, ETO, steam, and dry heat sterilization. Available with inner adhesive liner in sizes 3.2 and larger	1.6 -25.4.6	Translucent	Insulation and strain relief of medical device components exposed to high temperatures either during operation or sterilization. Thin-wall construction for applications with clearance constraints. Adhesive-lined version also provides sealing
MT2000	-40 to 105	2.5:1	Lubricious, thin wall polyolefin tubing	Lubricity comparable to FEP. Excellent electrical insulation properties. Compatible with gamma, ETO, steam, and dry heat sterilization. Available with inner adhesive liner in sizes 3.0 and larger	1.0 -10.0	Black, Clear	Applications requiring lubricity, flexibility and excellent electrical insulation performance. A cost-effective alternative to FEP. Thin-wall construction is well suited for applications with clearance constraints. Adhesive lined version also provides sealing.
MT3000	-55 to 150	2:1	High temperature, flexible polyolefin tubing	Tough, flexible, very-thin-wall insulation. Compatible with gamma, ETO, dry heat sterilization and limited cycles of steam sterilization.	1.6 -25.4	Black	Insulation and strain relief of medical device components exposed to high temperatures either during operation or sterilization. Exceptional flexibility and thin-wall construction provide pliancy and small overall wire bundle or electrosurgical tool diameters.
MT5000	-70 to 105	2:1	Flexible polyolefin tubing	Flexible tubing with excellent electrical insulation properties. Compatible with gamma and ETO sterilization Available with inner adhesive liner in sizes 3.2 and larger	1.6 -25.4	Black, Clear, Blue	Insulation of electrosurgical instruments. Protection against abrasion and fluids. Also used for strain relief, colour coding and identification of medical components and devices

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Special Purpose

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DR-25	-55 to 175	2:1	Flexible, chemical and abrasion resistant tubing	Long-term fluid and heat resistance. Resistance to aviation, diesel and hydraulic fluids. Flame-retardant.	3.2 - 76.0	Black	Particularly suitable as a jacketing material for cables and harnesses on military ground vehicles and race cars.
ES Caps	-55 to 175	4:1	High shrink ratio, adhesive lined, semi-rigid polyolefin caps	Mechanically tough jacket provides strain relief and abrasion protection. Flame-retardant jacket.	5.72 - 10.85	Black, Clear	Specially designed to provide mechanical and environmental protection of stub splices in electrical harnesses. Clear caps allow see-through inspection.
HF	-55 to 90	3:1	High Flex, thick wall polyolefin tubing	High flexibility. Excellent insulation and abrasion protection. Flame-retardant.	10.16 - 68.58	Black	Ideal for jacketing cables where sharp bends or turns are required. Also ideal for applications where the cable is subject to motion.
HFT5000	-40 to 125	2:1	Heat Shrinkable Fabric tubing	Highly flexible for easy installation on a variety of substrates. Outstanding abrasion resistance over a wide temperature range. Heat-shrinkable to grip tightly. Resistant to harsh environments. Halogen-free.	12.0 - 70.0	Black	Abrasion protection for rubber hoses, plastic pipes, and harness wire bundles. Provides outstanding abrasion, chafing and cut-through protection even at high temperatures.
PD Caps	-55 to 110	3:1	Semi-Rigid, encapsulant lined polyolefin caps	End cap with melt-able encapsulant inner wall for splash resistance. Permanent or temporary method to terminate wires	3.2 - 12.7	Black	Insulation and encapsulation of crimped electrical connections, especially stub splices, providing rugged protection against abrasion vibration, and flexing.
RayBlock 105	-40 to 105	4:1	High Temperature heat shrinkable water blocking system	Environmentally seals and provides strain relief to wire bundles of up to 20 wires.	12.0 - 32.0	Black	Sealing of cable bundles and the back of connectors.

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RT-375	-55 to 150	2:1	Clear, Flame resistant, flexible fluoropolymer tubing	Exceptional clarity and clarity stability. Highly flame-resistant. Tough, chemical resistant and high temperature performance.	1.2-50.8	Clear	Protection of components and wire markers subject to extreme abuse while permitting full identification and inspection.
RW-175	-55 to 175	2:1	High temperature, chemical resistant polyvinylidene fluoride tubing	Tough, semi-rigid, very thin wall insulation. Highly flame-resistant	1.2-38.1	Translucent	Insulation and strain relief of delicate electrical connections and terminations. Offers high temperature performance, outstanding abrasion and cut-through resistance, and superior chemical and solvent resistance.
SST/SST-FR	-55 to 90	3:1	Thick wall, adhesive lined polyolefin tubing	Thick wall insulation, strain relief and abrasion protection. Thick adhesive liner forms a barrier against fluids and moisture. SST-FR is flame-retardant.	7.62 - 114.3	Black	Insulation, strain relief, and sealing of splices in wire harnesses. Environmental protection in wet or underground applications.
Viton®	-40 to 200	2:1	High temperature, chemical resistant elastomeric tubing	Outstanding performance in severe chemical and thermal environments. High resistance to impact and abrasion.	3.2 - 50.8	Black	Insulation and protection of cables and components exposed to high temperatures and/or solvents, fuels, hydraulic fluids, lubricants, and acids. Suitable for use in engine compartments.
ZH-100	-30 to 105	2:1	Flexible, thin wall, low fire hazard tubing	Low smoke emissions. Flexible, flame-retardant. No added halogens.	3.2 - 51.0	Black	Jacketing wire bundles and light-duty harnesses for use in areas where low-fire-hazard materials are required.

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