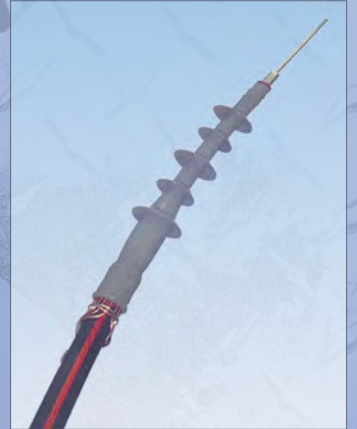




DSG-CANUSA

A SHAWCOR COMPANY

AUTOMOTIVE CATALOG



Insulate. Seal. Protect.

WELCOME TO THE DSG-CANUSA PRODUCT CATALOG

The DSG-Canusa catalog includes information on all major products that we carry to service Electrical/Utility, Industrial, Automotive, Electronics, Military/Aerospace and Communications applications.

The catalog is arranged into the following sections to help you quickly find information and compare products:

Selection

- A quick comparison of products within the major item classes to facilitate selection

Low Voltage Products

- Our world class medium and heavy wall heat shrink as well as many specialized products and kits for low voltage electrical applications

Medium Voltage Products

- Detailed specifications on medium voltage terminations and joints

Equipment Insulation

- Insulation products for bus bars and industrial equipment

Single Wall

- Thin wall polyolefin heat shrink tubing for wire harnesses and general purpose insulation and protection

Dual Wall (adhesive lined)

- Thin wall adhesive lined polyolefin heat shrink tubing for wire harnesses and general purpose sealing and protection

Automotive

- Custom designed heat shrink solutions for splice sealing and water blocking

Specialty Non-polyolefin

- Thin wall non-polyolefin heat shrink products for demanding applications

Communications

- Innovative products for cable, telecom and wireless

Reference

- Useful tools for product cross reference and quick selection

DSG-CANUSA, A DIVISION OF SHAWCOR

DSG-Canusa is a division of ShawCor, a publicly traded growth oriented energy services company with revenues of more than 1 billion CDN annually. ShawCor operates globally through seven divisions to provide products and services to the pipeline and industrial market segments. ShawCor has manufacturing and service facilities throughout the world.

DSG-CANUSA, A GLOBAL SUCCESS

DSG-Canusa provides electrical and mechanical insulation solutions for the Electrical/Utility, Communications, Automotive and Electronics markets. In operation since 1981, DSG-Canusa has experienced double digit growth and is one of the largest heat shrink manufacturers in the world.

Manufacturing and Distribution

United States	Canada	United Kingdom
Germany	China	

Research and Development

Canada	Germany	China
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Sales and Satellite Distribution

Worldwide

UNIQUE SOLUTIONS FOR CUSTOM APPLICATIONS

DSG-Canusa is the complete source for heat shrink products and related technology. Product offering includes polyolefin, fluoropolymer, elastomer and PVC heat shrink based materials in thin, medium and heavy walled tubing as well as heat shrink accessories and equipment. New products are continuously being developed to meet industry requirements. Moreover, a commitment to develop unique solutions for customer applications has earned DSG-Canusa a reputation of excellence in Customer satisfaction.

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PRODUCT SELECTION CHART

SINGLE WALL PRODUCTS

SHRINK RATIO	PRODUCT NAME	DESCRIPTION	OPERATING TEMPERATURE (C/F)		TYPICAL APPLICATIONS	(C/F)	
			MAXIMUM	MINIMUM		RECOVERY TEMPERATURE	
2:1	CHM 140	Semi-rigid polyolefin	135/275	-55/-67	Automatic feed equipment or other applications requiring strain relief and exceptional mechanical strength	135/257	
2:1	CPX 100	General purpose, flexible polyolefin	125/275	-55/-67	Insulation protection, strain relief, identification, Military and Industrial	90/194	
3:1	CPX 201	Striped green and yellow, flexible polyolefin	135/257	-55/-67	Grounding line designation	90/194	
3:1	CPX 300	High shrink ratio, flexible polyolefin	135/275	-55/-67	Protection for irregular shapes/components, bundling, insulation and identification of cables and wires	90/194	
2:1	CPX 876	High performance, flexible polyolefin	135/275	-55/-67	Industrial, Military/Aerospace and Automotive applications requiring low recovery temperature and high flame retardancy	85/185	
2:1	CZT 200	Zero halogen, thin wall flexible polyolefin	105/221	-40/-40	Low smoke generation for use in confined areas such as underground transportation systems, military and aerospace applications	120/248	
2:1	DERAY® ITW	Ultra thin wall, very flexible polyolefin	135/275	-55/-67	Insulation and protection of splices in very flexible cables, high volume production operations	90/194	
2:1	DERAY® LSB	Very low shrink temperature, flexible polyolefin	105/221	-45/-49	Thermally sensitive electronic components, high volume product lines	70/158	

DUAL WALL PRODUCTS

SHRINK RATIO	PRODUCT NAME	DESCRIPTION	OPERATING TEMPERATURE (C/F)		TYPICAL APPLICATIONS	(C/F)	
			MAXIMUM	MINIMUM		RECOVERY TEMPERATURE	
3:1	CPA 100	High shrink ratio, flexible polyolefin, adhesive lined	110/230	-55/-67	Encapsulation of cables, wires, splices and covering for irregularly sized objects	120/248	
3:1	CPA 300	High shrink ratio, flexible polyolefin, adhesive lined	125/257	-55/-67	Environmental sealing and flame retardancy for a variety of applications	120/248	
4:1	CWWT 450	Thin wall, water clear adhesive lined tubing	110/230	-55/-67	Water clear, adhesive lined specifically designed for pump applications	120/248	
>2:1	DERAY® HXKT	Semi-rigid, adhesive lined polyolefin	110/230	-55/-67	Insulation and environmental protection in applications requiring superior strain relief and abrasion resistance	110/230	
4:1	DERAY® IHKT	Polyamide lined flexible polyolefin	125/257	-55/-67	Adheres readily to connector and metal substrates	100/212	
3:1	DERAY® CrimpSeal II	Crystal clear, semi-rigid, adhesive lined tubing with integral solderless splice connector	125/257	-55/-67	Wire to wire splicing. Environmental protection for crimp-connections & terminals.	90/194	
4:1	CFRA	Fuse link rated adhesive lined polyolefin	125/257	-55/-67	Automotive fuse link and splice protection	125/257	
4:1	DERAY® SpliceMelt	Adhesive lined polyolefin	125/257	-40/-40	Specifically designed to insulate and environmentally protect automotive and electronic wire harness splices	125/257	
4:1	CDR	Semi-rigid, adhesive lined polyolefin	130/266	-40/-40	Specifically designed to insulate and environmentally protect automotive and electronic wire harness splices	125/257	
4:1	DERAY® SpliceMelt Cap	Adhesive lined polyolefin end cap	125/257	-40/-40	Specifically designed to insulate, seal and protect end or stub splices in automotive and electronic wiring harnesses	125/257	
4:1	CDR Cap	Semi-rigid, adhesive lined polyolefin end cap	130/266	-40/-40	Specifically designed to insulate and environmentally protect automotive and electronic wire harness splices	125/257	

	FLAME RATING	SPECIFICATIONS	COLOR	SIZES	FEATURES
	Flame retardant	SAE-AMS-DTL-23053/6; AMS 3638 and 3639; UL 224 125°C, CSA 22.2 No 198.1 125°C	Black	3/64 to 1/2 in 1.2 to 12.7 mm	Semi-rigid for superior mechanical strength and protection
	Flame retardant (except clear)	UL 224 125°C; CSA C22.2 No. 198.1 125°C, SAE-AMS-DTL-23053/5 Class 1 and 2; AMS 3636 and 3637; DEF STAN 59-97 Issue 3 Type 2a	Black, White, Red, Blue, Yellow, Green, Clear	3/64 to 4 in 1.2 to 101.6 mm	Flexible, flame retardant
	Flame retardant	SAE-AMS-DTL-23053/5 Class 1; DEF STAN 59-97 Issue 3 Type 2a; AMS 3636; UL 224 125°C, CSA 22.2 No 198.1 125°C	Yellow and green stripes	3/16 to 1½ in 4.8 to 39.0 mm	Resistant to common fluids and solvents
	Flame retardant (except clear)	UL 224 No. 19981. 125°C; CSA C22.2 125°C SAE-AMS-DTL-23053/5 Class 1 and 2; DEF STAN 59-97 Issue 3 Type 2a	Black, White, Red, Blue, Yellow, Green, Clear	1/8 to 1½ in 3.2 to 38.1 mm	High shrink ratio for good range taking capacity
	Highly flame retardant	UL 125°C VW-1; CSA C22.2 No. 198.1 125°C OFT and Class 1; SAE-AMS-DTL-23053/5 Class 3; MIL-R-46846 Type V; AMS 3587; DEF STAN 59-97 Issue 3 Type 1a	Black, White, Red, Blue, Yellow, Green	3/64 to 4 in 1.2 to 101.6 mm	High flame retardancy, multiple spec approvals
	Flame retardant	DEF STAN 59-97 Issue 3 Type 8; Tested to ASTM E662, ASTM C542, Boeing BSS 7239	Black, White, Yellow	1/16 to 4 in 1.6 to 101.6 mm	Zero halogen
	Black: flame retardant Clear: FMVSS 302	Meets UL 224 125°C flammability	Black, Clear	0.047 to 1.023 in 1.2 to 26.0 mm	Very flexible, ultra thin, flame retardant
	Non-flame retardant	FMVSS 302	Black	1/8 to 2 in 3.2 to 55.0 mm	Low 80°C shrink temperature

	FLAME RATING	SPECIFICATIONS	COLOR	SIZES	FEATURES
			Black, Red, Blue, Clear	1.8 to 1.57 in 3.2 to 38.1 mm	Environmental sealing adhesive liner with high shrink ratio
	Flame retardant	SAE-AMS-DTL-23053/4 Class 3; UL 224 125°C; CSA 22.2 No 198.1 125°C	Black, White, Red	1/8 to 1.57 in 3.2 to 38.1 mm	Multiple specifications, flame retardant, flexible
	Non-flame retardant		Clear	0.41 in 10.4 mm	Water clear, adhesive lined tubing allows for the examination of substrate wiring
	FMVSS 302	Industrial and automotive OEM approvals	Black	1/8 to 1 in 3.2 to 25.4 mm	Semi-rigid, adhesive lined
	Black: flame retardant Clear: FMVSS 302	VG 95 353 Part 12 Type D Meets the material performance of SAE-AMS-DTL-23053/4 Class 3	Black, Clear	0.157 to 2.047 in 4 to 52.0 mm	High ratio, superior adhesive for connectors
		Meets all major automotive OEM specifications	Clear, Red, Blue, Yellow	28-10 AWG	Crystal clear, Semi-rigid, adhesive lined
	Flame retardant	WSS-M99D56-A4; Ford ES-FOEB-1A263-AA	Black	0.200 to 0.700 in 5.08 to 17.78 mm	Adhesive lined, fuse link rated, flammability resistance
	Black: flame retardant Clear: FMVSS 302	Approved to all major Automotive OEM splice sealing specifications; Chrysler MSDB56, PS9691; Ford ES-FOEB-1A263-AA; GM; VW	Black, Clear	0.236 to 0.708 in 6 to 18 mm	Adhesive lined, mechanical strength and environmental protection
	Flame retardant	Meets all major Automotive OEM splice sealing specifications; Chrysler MSDB56, PS9691; Ford ES-FOEB-1A263-AA; GM; VW	Black	0.236 to 0.708 in 6 to 18 mm	Semi-rigid, adhesive lined, mechanical strength and environmental protection
	Black: flame retardant Clear: FMVSS 302	Approved to all major automotive OEM specifications	Black, Clear	0.236 to 0.708 in 6 to 18 mm	Adhesive lined, mechanical strength and environmental protection
	Flame retardant	Meets all major automotive OEM specifications	Black	0.236 to 0.708 in 6 to 18 mm	Semi-rigid, adhesive lined, mechanical strength and environmental protection

PRODUCT SELECTION CHART

SPECIALTY NON-POLYOLEFIN PRODUCTS

SHRINK RATIO	PRODUCT NAME	DESCRIPTION	OPERATING TEMPERATURE (C/F)		TYPICAL APPLICATIONS	(C/F)	
			MAXIMUM	MINIMUM		RECOVERY TEMPERATURE	
2:1	CNP 200	Highly flexible thin wall Neoprene	120/249	-70/-94	Abrasion protection of harnesses where ruggedness and low temperature flexibility are required	135/275	
2:1	CVN 105	Flexible PVC	105/221	-30/-35	General purpose insulation and mechanical protection	110/230	
2:1	DERAY® KY 175	Semi-rigid PVDF, thin wall	175/356	-55/-67	Electronic applications where strain relief, abrasion and cut-through resistance and higher operating temperatures are required	175/347	
2:1	DERAY® KYF 190	Flexible, high temperature, thin wall	190/374	-55/-67	Applications where flexibility and superior chemical, abrasion and temperature resistance is critical	175/347	
2:1	DERAY® V25	Diesel resistant chlorinated polyolefin	150/302	-75/-103	Automotive and Military/Aerospace cables and harnessing	130/266	
2:1	DERAY® VT 220	Thin wall fluoroelastomer	220/428	-55/-67	Severe chemical and thermal environments, Military/Aerospace applications including electronic and fluid transport systems	175/347	

	FLAME RATING	SPECIFICATIONS	COLOR	SIZES	FEATURES
	Highly flame retardant	MIL-R-46846 Type 1; SAE-AMS-DTL-23053/1; AMS 3623	Black	1/8 to 3 in 3.2 to 75.2 mm	Heavy duty, abrasion resistant, flexible at low temperatures
	Flame retardant	UL 224 VW-1; CSA C22.2 No. 198.1 OFT	Black, White, Clear, Red, Blue, Yellow, Green	3/64 to 4 in 1.2 to 101.6 mm	Semi-rigid for superior mechanical strength and protection
	Flame retardant	DEF STAN 59-97 Issue 3 Type 3a; AMS 3623C; SAE-AMS-DTL-23053/8; UL 224 VW-1; CSA C22.2 OFT	Clear, Black	3/64 to 1 in 1.2 to 25.4 mm	Mechanically tough, high operating temperature
	Highly flame retardant	SAE-AMS-DTL-23053/18 Class 2; UL 224 VW-1; CSA 22.2 OFT	Black, Clear	3/64 to 1/2 in 1.2 to 12.7 mm	Flexible, resistance to chemicals, temperatures
	Flame retardant	SAE-AMS-DTL-23053/16; MIL-R-46846	Black	1/8 to 3 in 3.2 to 76 mm	Diesel, oil and hydraulic fluid resistant; available in standard and thin wall
	Flame retardant	SAE-AMS-DTL-23053/13; MIL-R-46846 Type III Class 1; DEF STAN 59-97 Issue 3 Code 4A	Black	1/8 to 2 in 3.2 to 50.8 mm	Severe chemical and thermal environments; high resistance to impact and abrasion

SINGLE WALL PRODUCTS

Single wall heat shrink tubing is used in a variety of applications in the electronics, automotive, military and aerospace sector including:

- Mechanical Protection
- Abrasion Protection
- Strain Relief
- Moisture Ingress Protection
- Cable Insulation
- Marking and Bundling of electronic components

CHM 140



INSULATE
SEAL
PROTECT

THIN WALL SEMI-RIGID CROSS-LINKED POLYOLEFIN

Semi-rigid heat shrink tubing for use with automatic feed equipment or other industrial, military/aerospace and commercial applications requiring exceptional strain relief

FEATURES AND BENEFITS

- 2:1 shrink ratio and 2.5:1 shrink ratio
- Exceptional mechanical strength and abrasion resistance
- Semi-rigid
- Flame retardant
- Thicker wall available for additional mechanical protection
- Resistant to acids, alkalis, hydrocarbon solvents and hydraulic fluids
- Continuous operating temperature: -55°C to 135°C
- Shrink temperature: 135°C

STANDARDS

- UL 224 125°C
- CSA C22.2 No. 198.2
- SAE-AMS-DTL-23053/6
- AMS 3638 and 3639

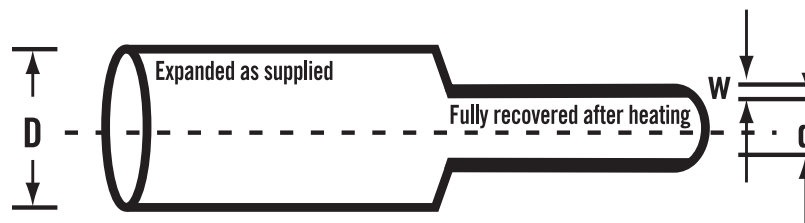
TYPICAL APPLICATIONS

- Physical protection of electronic components
- Strain relief of terminals



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT
2:1 SHRINK RATIO (SAE-AMS-DTL-23053/6)								
0046	1.2	3/64	0.60	0.023	0.51	0.020	300	1,000
0063	1.6	1/16	0.79	0.031	0.51	0.020	300	1,000
0093	2.4	3/32	1.20	0.046	0.51	0.020	300	1,000
0125	3.2	1/8	1.59	0.062	0.51	0.020	300	1,000
0187	4.7	3/16	2.36	0.093	0.64	0.025	300	1,000
0250	6.4	1/4	3.18	0.125	0.64	0.025	150	500
0375	9.5	3/8	4.75	0.187	0.76	0.030	150	500
0500	12.7	1/2	6.35	0.250	0.76	0.030	60	200
2.5:1 SHRINK RATIO								
1	6.1	0.240	2.4	0.095	0.81	0.032	cut pieces	cut pieces
2	8.1	0.320	3.2	0.125	0.81	0.032	cut pieces	cut pieces
3	9.5	0.375	3.8	0.150	0.81	0.032	cut pieces	cut pieces
4	12.3	0.485	5.1	0.200	0.81	0.032	cut pieces	cut pieces



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resulting wall thickness will be less than specified.
- Select Options:
 - Color: Black (BK)
 - Lengths: 48 in (1.2 m) continuous reels or cut pieces
- Please specify the product name, order number and options you require.
- Order Example: CHM 140, 0375, black, unprinted, 500 ft reel

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

CPX 100

2:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

THIN WALL CROSS-LINKED POLYOLEFIN

Flexible, multi-purpose heat shrink tubing

FEATURES AND BENEFITS

- 2:1 shrink ratio
- Flame retardant (colors only)
- Resistant to common fluids and solvents
- Economical mechanical protection for terminal strain relief and wire bundling
- Continuous operating temperature: -55°C to 135°C
- Shrink temperature: 90°C

STANDARDS

- UL 224, 125°C (colors only)
- CSA C22.2 No. 198.1, 125°C
- SAE-AMS-DTL-23053/5, Class 1 and 2
- AMS 3636 and 3637
- DEF STAN 59-97 Issue 3, Type 2a

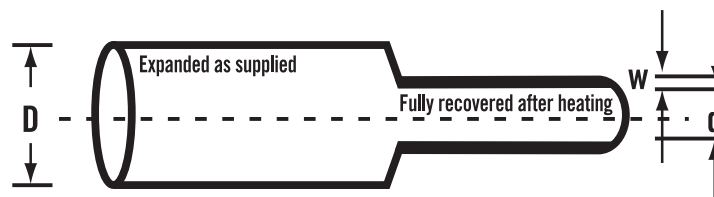
TYPICAL APPLICATIONS

- Electrical insulation of wire splices and terminals
- Strain relief of wire terminations
- Protects components from abrasion and fluids



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT
0047	1.2	3/64	0.6	3/128	0.41	0.016	300	1000
0063	1.6	1/16	0.8	1/32	0.43	0.017	300	1000
0094	2.4	3/32	1.2	3/64	0.51	0.020	300	1000
0125	3.2	1/8	1.6	1/16	0.51	0.020	300	1000
0187	4.8	3/16	2.4	3/32	0.51	0.020	300	1000
0250	6.4	1/4	3.2	1/8	0.64	0.025	150	500
0375	9.5	3/8	4.7	3/16	0.64	0.025	150	500
0500	12.7	1/2	6.4	1/4	0.64	0.025	60	200
0625	16.0	5/8	8.0	5/16	0.76	0.030	60	200
0750	19.0	3/4	9.5	3/8	0.76	0.030	30	100
1000	25.4	1	12.7	1/2	0.89	0.035	30	100
1250	32.0	1 ¼	16.0	5/8	0.89	0.035	30	100
1500	38.1	1 ½	19.0	3/4	1.02	0.040	30	100
2000	50.8	2	25.4	1	1.14	0.045	30	100
3000	76.2	3	38.0	1 ½	1.27	0.050	15	50
4000	101.6	4	50.8	2	1.40	0.055	15	50



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK), Red (RD), White (WT), Clear (CL), Blue (BL), Yellow (YL), Green (GR)
 - Length: Standard Stick, Spool or custom length
- Please specify the product name, order number and options you require
- Order Example: CPX 100, 0375, black, 500 ft

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

CPX 201

3:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

THIN WALL CROSS-LINKED POLYOLEFIN

Yellow and green striped heat shrink tubing that is flexible and flame retardant

FEATURES AND BENEFITS

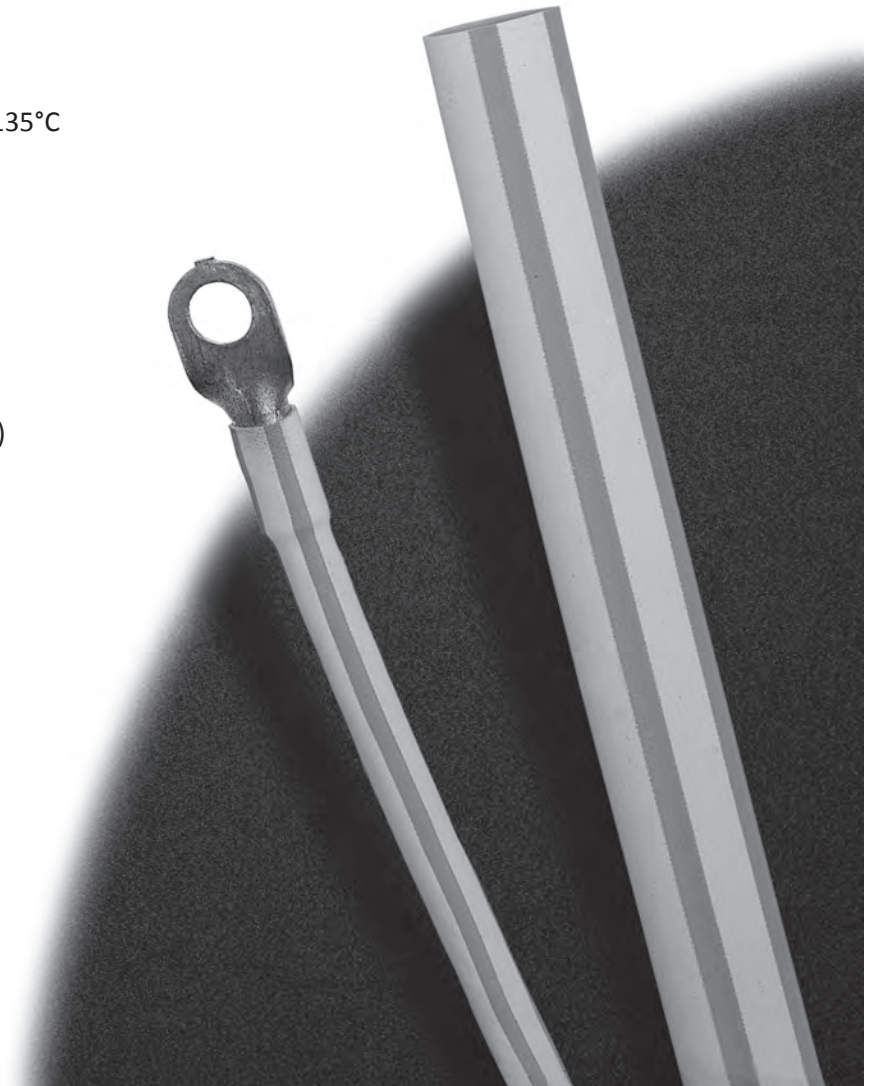
- High shrink ratio: 3:1
- Striped color combination designates international electrical grounding
- Flame retardant
- Resistant to common fluids and solvents
- Flexible
- Continuous operating temperature: -55°C to 135°C
- Shrink temperature: 90°C

STANDARDS

- UL 224, 125°C
- CSA C22.2 No. 198.1, 125°C
- SAE-AMS-DTL-23053/5, Class 1 (material only)
- AMS 3636

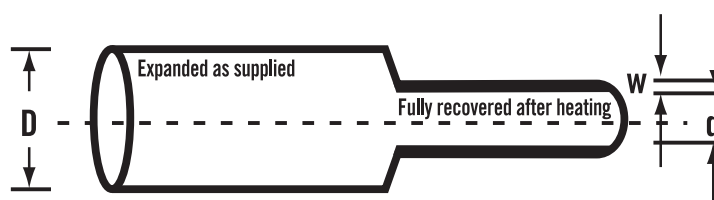
TYPICAL APPLICATIONS

- Identify ground wire and terminals
- Electrical insulation of in-line connections



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT
0125	3.2	1/8	1.0	0.039	0.55	0.022	150	500
0187	4.8	3/16	1.5	0.059	0.60	0.024	60	200
0250	6.4	1/4	2.0	0.079	0.65	0.026	150	500
0375	9.5	3/8	3.0	0.118	0.75	0.030	60	200
0500	12.7	1/2	4.0	0.157	0.75	0.030	60	200
0750	19.0	3/4	6.0	0.236	0.85	0.033	30	100
1000	25.4	1	8.0	0.315	1.00	0.039	30	100
1535	39.0	1.50	13.0	0.512	1.15	0.045	30	100



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Yellow/green stripes
 - Printing: Printed or Unprinted
 - Length: Continuous reels
- Please specify the product name, order number and options you require
- Order Example: CPX 201, 0250, yellow/green stripes, unprinted, 500 ft lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

CPX 300

3:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

THIN WALL HIGH SHRINK RATIO CROSS-LINKED POLYOLEFIN

High shrink ratio, flexible heat shrink tubing

FEATURES AND BENEFITS

- High shrink ratio (3:1) is ideal for covering irregularly sized objects
- Resistant to common fluids and solvents
- Flame retardant
- Flexible
- Continuous operating temperature: -55°C to 135°C
- Shrink temperature: 90°C

STANDARDS

- UL 224 125°C
- CSA C22.2 No. 198.1 125°C
- SAE-AMS-DTL-23053/5, Class 1 and 2
- DEF STAN 59-97, Issue 3 Type 2a

TYPICAL APPLICATIONS

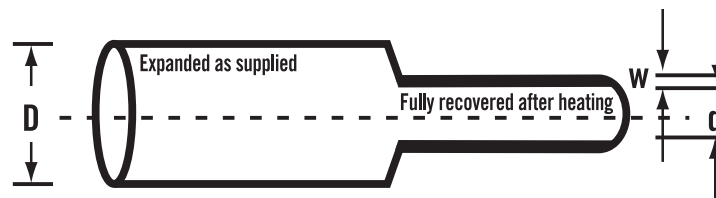
- Electrical insulation of in-line splices
- Strain relief of terminals
- Color coding of electronic components



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT
0125	3.2	1/8	1.10	0.042	0.51	0.020	150	492
0187	4.8	3/16	1.60	0.063	0.70	0.020	75	246
0250	6.4	1/4	2.10	0.083	0.66	0.026	75	246
0375	9.5	3/8	3.20	0.125	0.76	0.030	75	246
0500	12.7	1/2	4.20	0.165	0.76	0.030	50	164
0750	19.1	3/4	6.40	0.250	0.84	0.033	30	98
1000	25.4	1	8.50	0.333	0.99	0.039	30	98
1500	38.1	1½	12.70	0.500	1.14	0.045	30	98

* Spool lengths are for black only



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK), Red (RD), White (WT), Blue (BL), Yellow (YL), Green (GR)
 - Printing: Printed or Unprinted
 - Length: Continuous reels
- Please specify the product name, order number and options you require
- Order Example: CPX 300, 0375, black, unprinted, 246 ft lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

CPX 876

2:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

THIN WALL HIGHLY FLAME RETARDANT CROSS-LINKED POLYOLEFIN

Flexible, highly flame retardant heat shrink tubing, UL VW-1 rated

FEATURES AND BENEFITS

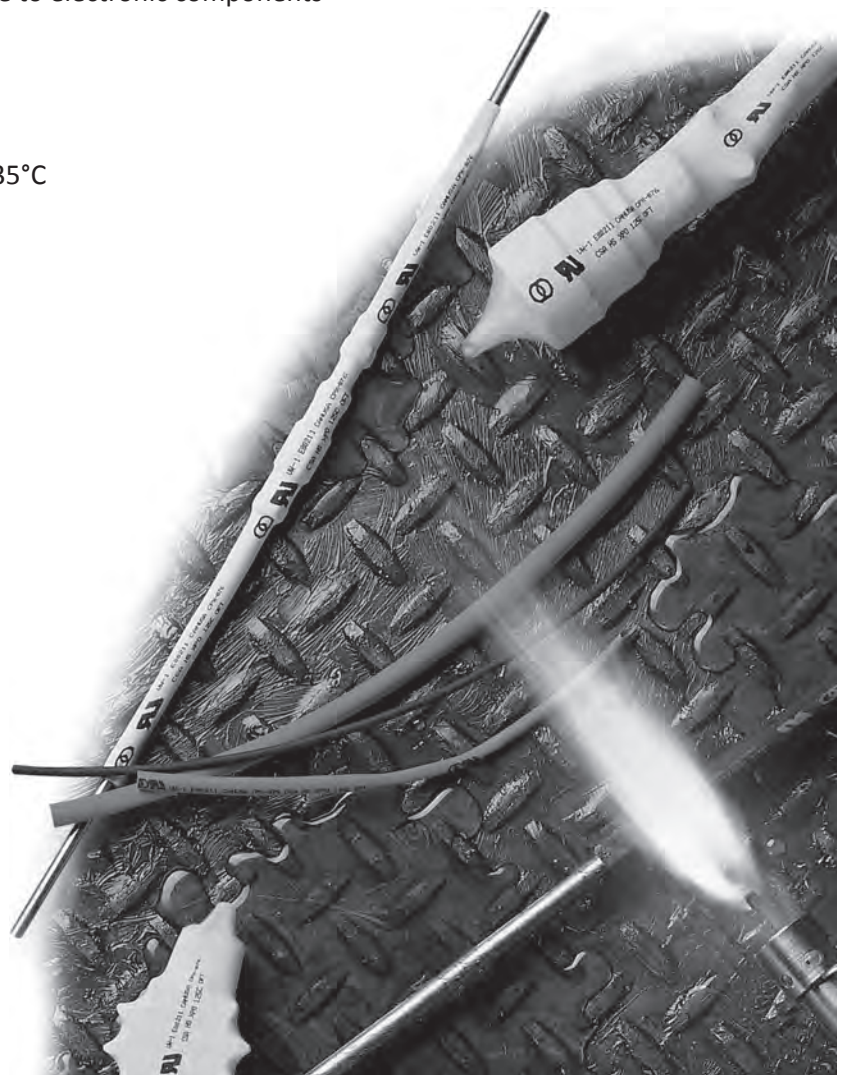
- 2:1 shrink ratio
- Highly flame retardant for use in consumer products
- Low shrink temperature reduces risk of damage to electronic components
- Flexible
- Resistant to common fluids and solvents
- Printable
- Continuous operating temperature: -55°C to 135°C
- Shrink temperature: 85°C

STANDARDS

- UL 224 125°C VW-1
- CSA C22.2 No. 198.1 125°C OFT
- SAE-AMS-DTL-23053/5, Class 1 & 3
- DEF STAN 59-97, Issue 3 Type 1a

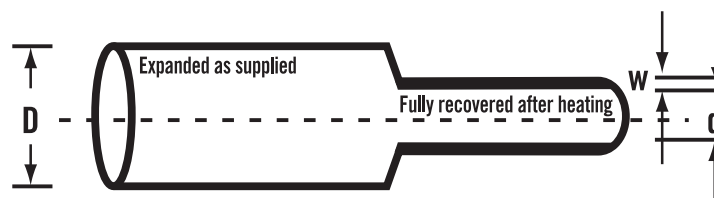
TYPICAL APPLICATIONS

- Strain relief of wire connections
- Insulation of in-line splices
- Protection and bundling of small harnesses



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT
0047	1.2	3/64	0.6	3/128	0.45	0.018	300	1,000
0062	1.6	1/16	0.8	1/32	0.45	0.018	300	1,000
0093	2.4	3/32	1.2	3/64	0.51	0.020	300	1,000
0125	3.2	1/8	1.6	1/16	0.51	0.020	300	1,000
0187	4.8	3/16	2.4	3/32	0.51	0.020	300	1,000
0250	6.4	1/4	3.2	1/8	0.64	0.025	150	500
0375	9.5	3/8	4.8	3/16	0.64	0.025	150	500
0500	12.7	1/2	6.4	1/4	0.64	0.025	60	200
0625	16.0	5/8	8.0	5/16	0.64	0.030	60	200
0750	19.0	3/4	9.5	3/8	0.76	0.030	30	100
1000	25.4	1	12.7	1/2	0.89	0.035	30	100
1250	32.0	1¼	16.0	5/8	0.89	0.040	30	100
1500	38.1	1½	19.0	3/4	1.02	0.040	30	100
2000	50.8	2	25.4	1	1.14	0.060	30	100
3000	76.2	3	38.1	1½	1.27	0.060	15	50
4000	101.6	4	50.8	2	1.40	0.060	15	50



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK), Red (RD), White (WT), Blue (BL), Yellow (YL), Green (GR)
 - Printing: Printed or Unprinted
 - Length: Continuous reels
- Please specify the product name, order number and options you require
- Order Example: CPX 876, 0125, black, unprinted, 1,000 ft lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

CZT 200

2:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

THIN WALL HALOGEN FREE CROSS-LINKED POLYOLEFIN

Zero Halogen heat shrink tubing for use in contained areas including underground transportation systems, shipboard, offshore, military and aerospace applications

FEATURES AND BENEFITS

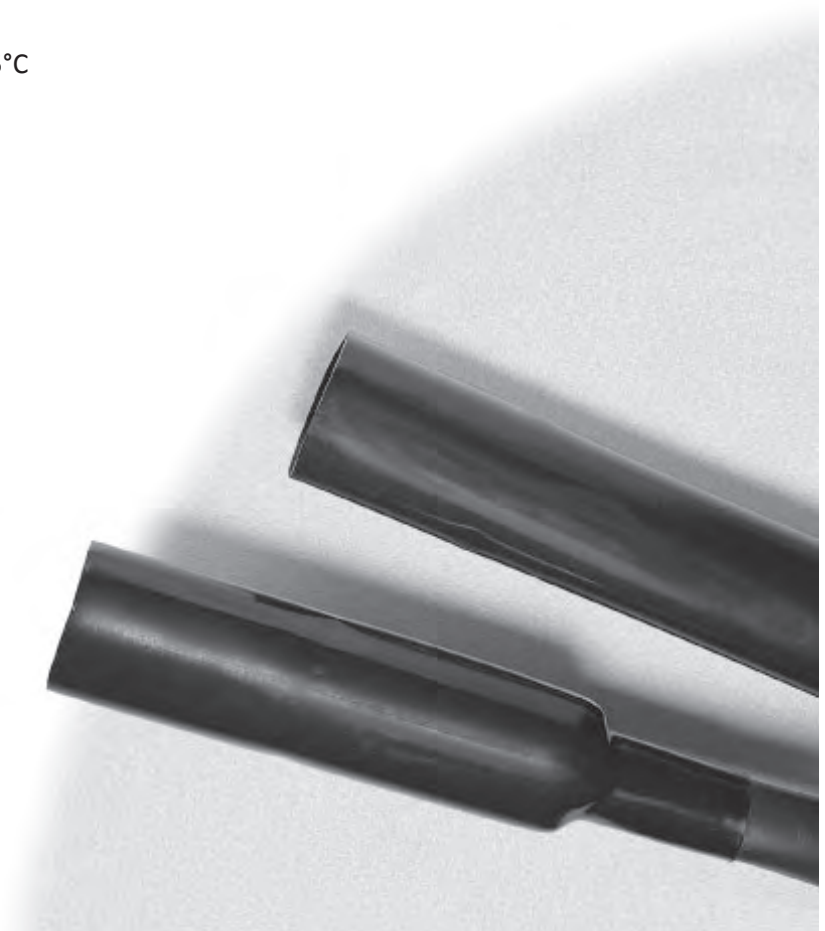
- 2:1 shrink ratio
- Low smoke generation - excellent fire safety characteristics
- Flexible
- Flame retardant
- Good fluid resistance
- Abrasion resistant
- Continuous operating temperature: -40°C to 105°C
- Shrink temperature: 115°C

STANDARDS

- DEF STAN 59-97 Issue 3 Type 8

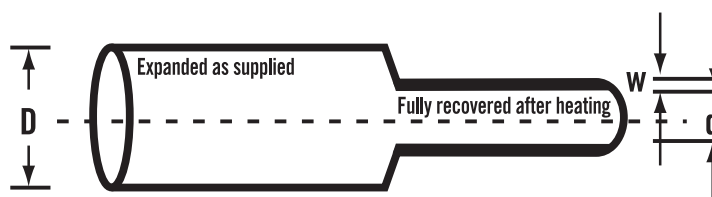
TYPICAL APPLICATIONS

- Insulation of electrical components in transit applications
- Mechanical and environmental protection in the marine industry
- General fire safety applications



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT
0062	1.6	1/16	0.8	1/32	0.45	0.018	300	984
0094	2.4	3/32	1.2	3/64	0.51	0.020	300	984
0125	3.2	1/8	1.6	1/16	0.51	0.020	300	984
0187	4.8	3/16	2.4	3/32	0.51	0.020	300	984
0250	6.4	1/4	3.2	1/8	0.64	0.025	300	984
0375	9.5	3/8	4.8	3/16	0.64	0.025	150	492
0500	12.7	1/2	6.4	1/4	0.64	0.025	100	328
0625	16.0	5/8	8.0	5/16	0.64	0.025	100	328
0750	19.0	3/4	9.5	3/8	0.76	0.030	50	164
1000	25.4	1	12.7	1/2	0.89	0.035	50	164
1250	32.0	1¼	16.0	5/8	0.89	0.035	50	164
1500	38.1	1½	19.0	3/4	1.02	0.040	50	164
2000	50.8	2	25.4	1	1.14	0.045	50	164
3000	76.2	3	38.1	1½	1.27	0.050	25	82
4000	101.6	4	50.8	2	1.40	0.055	25	82



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK), Yellow (YL), White (WT)
 - Printing: Printed or Unprinted
 - Length: Continuous reels
- Please specify the product name, order number and options you require
- Order Example: CZT 200, 0125, black, unprinted, 984 ft length

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

INSULATE
SEAL
PROTECT

ULTRA THIN WALL CROSS-LINKED POLYOLEFIN

Ultra thin wall, extremely flexible polyolefin heat shrink tubing designed for applications requiring extreme flexibility, quick shrink times and a thinner profile in space limited applications

FEATURES AND BENEFITS

- >2:1 shrink ratio
- Ultra thin wall, flame retardant
- Ideal for space limited applications
- Thin wall provides quick shrinkage and allows tubing to conform better to the substrate
- Extremely flexible
- Continuous operating temperature: -55°C to 135°C
- Shrink temperature: 90°C

STANDARDS

- Meets ASTM D2671 flammability resistance requirements

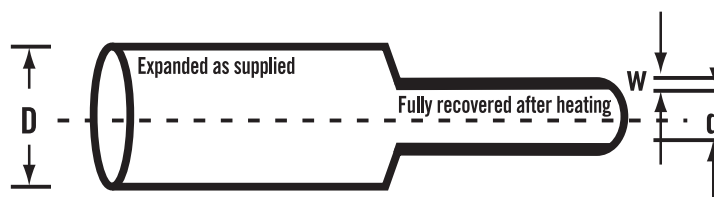
TYPICAL APPLICATIONS

- Insulates and protects electronic components
- Strain relief on connectors



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT
0098	2.5	0.098	0.8	.0314	0.30	0.012	300	984
0157	4.0	0.157	1.6	.0629	0.30	0.012	300	984
0220	5.6	0.220	2.4	.0944	0.30	0.012	300	984
0318	8.1	0.318	3.2	.1259	0.35	0.014	150	492
0433	11.0	0.433	4.8	.1889	0.35	0.014	150	492
0590	15.0	0.590	6.4	.2519	0.35	0.014	100	328
0787	20.0	0.787	9.5	.3740	0.45	0.018	50	164
1023	26.0	1.023	12.7	.5000	0.50	0.020	50	164



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Clear (standard), Black (on request)
 - Printing: Printed or Unprinted
 - Length: Continuous reels
- Please specify the product name, order number and options you require
- Order Example: DERAY® ITW, 0157, black, unprinted, 984 ft length

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

DERAY[®] LSB

2:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

THIN WALL CROSS-LINKED POLYOLEFIN

Low shrink temperature heat shrink tubing ideal for covering sensitive electronic components

FEATURES AND BENEFITS

- 2:1 shrink ratio
- Very flexible
- Low shrink temperature allows for physical protection of heat sensitive components
- Continuous operating temperature: -45°C to 125°C
- Shrink temperature: 70°C

STANDARDS

- Meets requirements of FMVSS 302

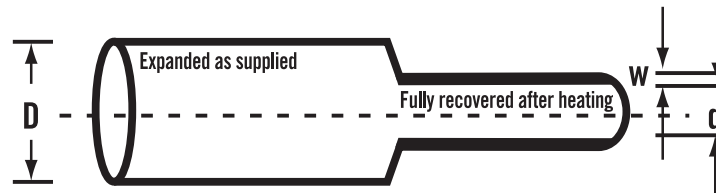
TYPICAL APPLICATIONS

- Protection of heat sensitive devices
- Insulation of electrical terminations



DIMENSIONS

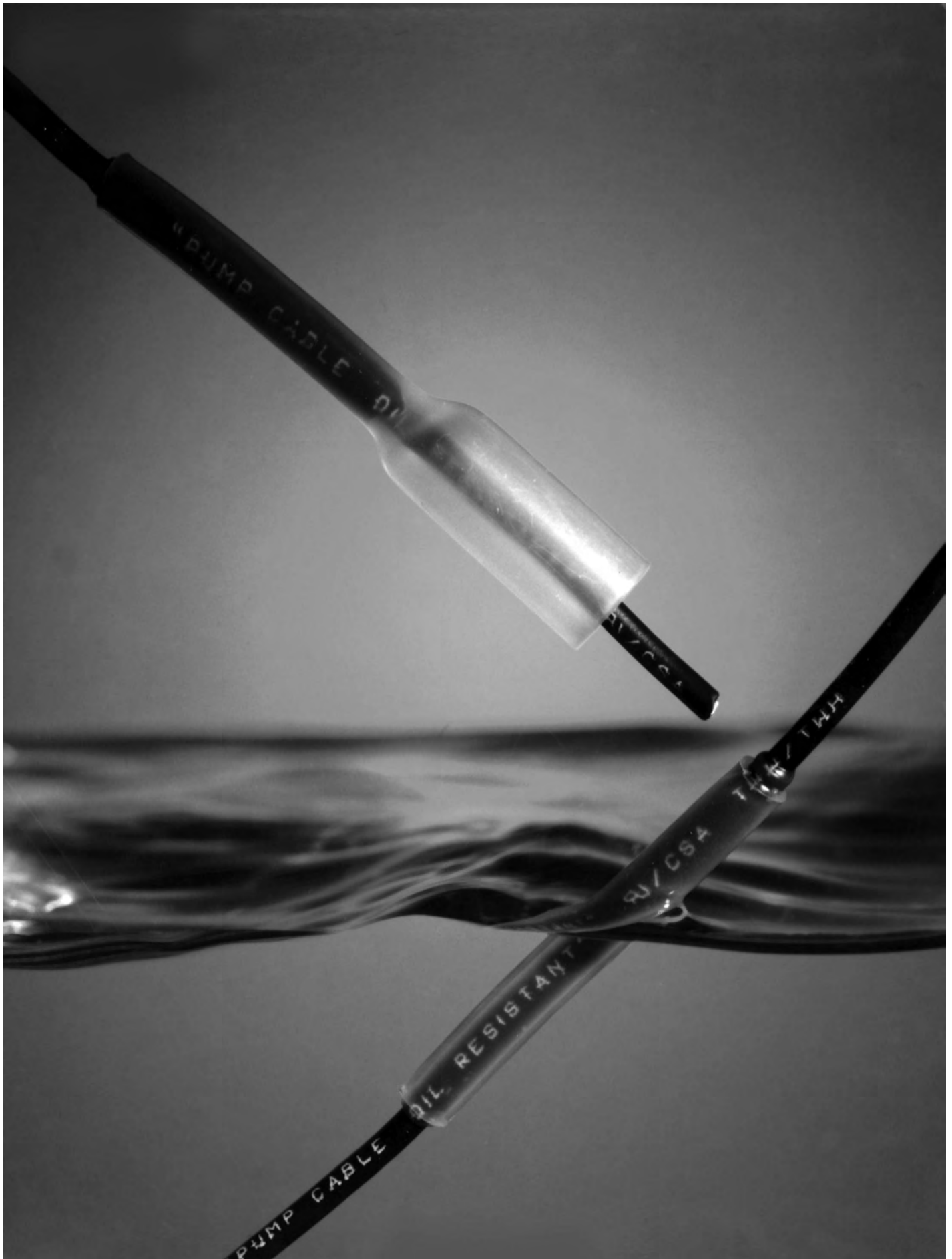
ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT
0125	3.2	1/8	1.6	1/16	0.50	0.020	400	1,312
0187	4.8	3/16	2.4	3/32	0.50	0.020	300	984
0250	6.4	1/4	3.2	1/8	0.60	0.024	300	984
0375	9.5	3/8	4.8	3/16	0.60	0.024	150	492
0500	12.7	1/2	6.4	1/4	0.60	0.024	100	328
0750	19.0	3/4	9.5	3/8	0.80	0.032	50	164
1000	25.4	1	12.7	1/2	0.90	0.035	50	164
1200	31.8	1¼	15.9	5/8	0.90	0.035	50	164
1500	38.0	1½	19.0	3/4	0.90	0.035	50	164
2000	51.0	2	25.4	1	1.00	0.039	50	164



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK)
 - Printing: Printed or Unprinted
- Please specify the product name, order number and options you require
- Order Example: DERAY® LSB, 0095, black, unprinted, 492 ft lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.



DUAL WALL PRODUCTS

DSG-Canusa offers a wide range of dual wall, adhesive lined products for the automotive, electronics and military/aerospace industries. The available combinations of jacket materials and adhesives allows selection of the right heat shrink tubing for the application and environmental conditions.

Typical applications include:

- In-line Splicing
- Terminal Sealing
- Strain Relief
- Mechanical Protection
- Connector/Terminal Sealing

CPA 100

3:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

THIN WALL ADHESIVE LINED CROSS-LINKED POLYOLEFIN

Adhesive lined heat shrink tubing with environmental sealing capability ideal for a variety of applications including automotive and marine wire harness bundles, industrial splices, breakouts and connector to cable transitions

FEATURES AND BENEFITS

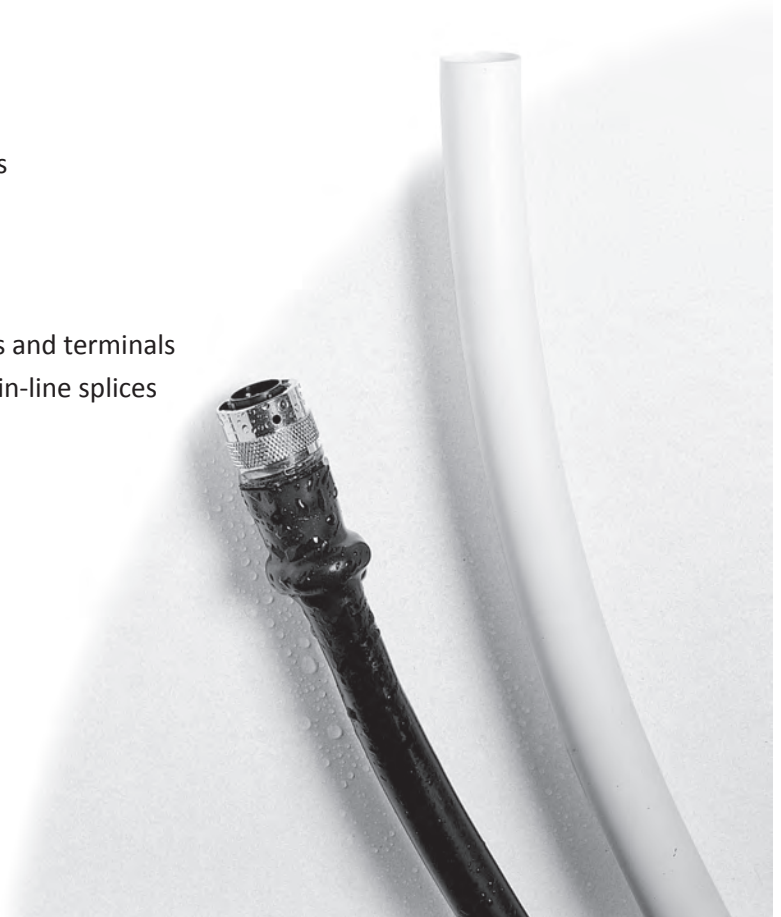
- 3:1 shrink ratio
- Superior sealing against water, moisture or other contaminants
- High shrink ratio allows for coverage of irregularly shaped connectors and components
- Inner adhesive bonds to plastics, rubber, neoprene, steel and polyethylene
- Continuous operating temperature: -55°C to 110°C
- Shrink temperature: 90°C

STANDARDS

- Industrial, electronic and automotive OEM approvals

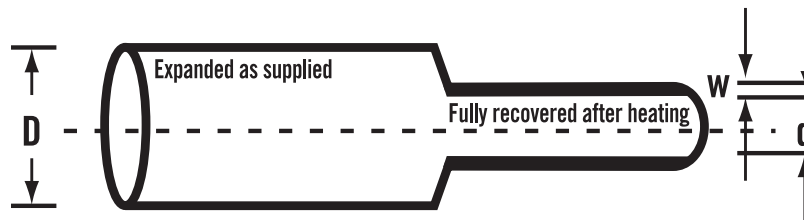
TYPICAL APPLICATIONS

- Environmental sealing and strain relief of connectors and terminals
- Moisture sealing and electrical insulation of simple in-line splices
- Abrasion resistance for tubes and pipes



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED						LENGTHS (STICKS)	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		TOTAL WALL THICKNESS (NOM) W		MELTABLE WALL THICKNESS (NOM)			
	MM	IN	MM	IN	MM	IN	MM	IN	M	IN
0125	3.2	1/8	1.0	0.040	1.0	0.040	0.5	0.020	1.2	48
0187	4.7	3/16	1.5	0.060	1.0	0.040	0.5	0.020	1.2	48
0250	6.4	1/4	2.0	0.080	1.0	0.040	0.5	0.020	1.2	48
0312	7.9	5/16	2.5	0.100	1.3	0.050	0.7	0.027	1.2	48
0375	9.5	3/8	3.2	0.125	1.5	0.060	0.7	0.027	1.2	48
0500	12.7	1/2	4.1	0.160	1.8	0.070	0.8	0.030	1.2	48
0750	19.1	3/4	6.4	0.250	1.8	0.070	0.8	0.030	1.2	48
1000	25.4	1	8.1	0.320	2.5	0.100	1.0	0.040	1.2	48
1250	31.8	1¼	10.6	0.416	2.5	0.100	1.0	0.040	1.2	48
1500	39.9	1½	13.0	0.510	2.5	0.100	1.0	0.040	1.2	48



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK), Red (RD), Clear (CL), Blue (BL), White (WT), Yellow (YW)
 - Length: Standard Stick, Spool or custom length
- Please specify the product name, order number and options you require
- Order Example: CPA 100, 0125, black, 48 in lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

CPA 300



INSULATE
SEAL
PROTECT

THIN WALL ADHESIVE LINED CROSS-LINKED POLYOLEFIN

Adhesive lined heat shrink tubing ideal for applications where both exceptional flame retardancy and environmental sealing capabilities are required

FEATURES AND BENEFITS

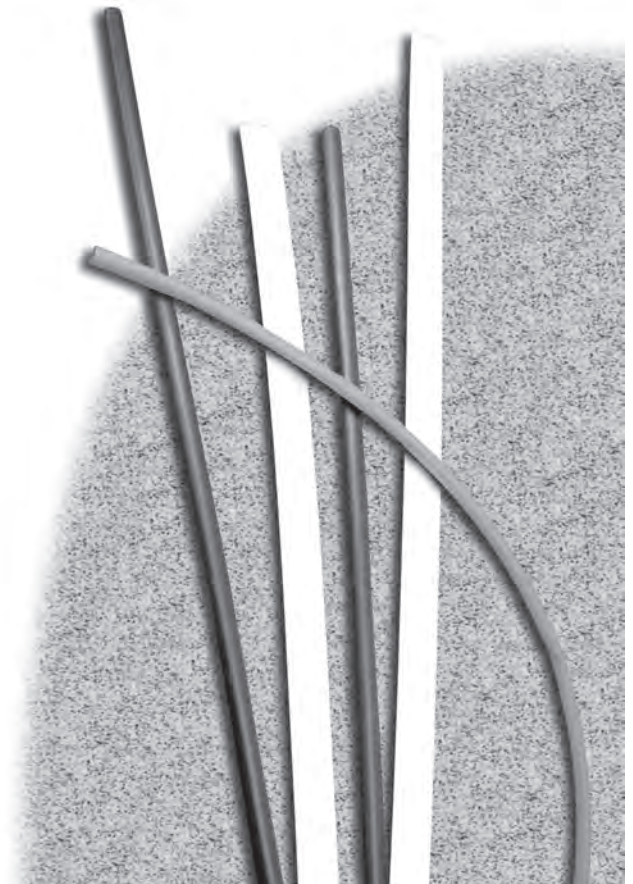
- 3:1 shrink ratio
- Highly flame retardant
- High shrink ratio allows for coverage of irregularly shaped connectors and components
- Adhesive liner bonds to plastics, rubber, neoprene, steel and polyethylene
- Superior sealing against water, moisture and other contaminants
- Superior protection for ring terminals without excessive adhesive flow
- Continuous operating temperature: -55°C to 125°C
- Shrink temperature: 120°C

STANDARDS

- UL 224, 125°C
- CSA C22.2 No.198.1 125°C
- SAE-AMS-DTL-23053/4, Class 3
- Automotive OEM Approvals

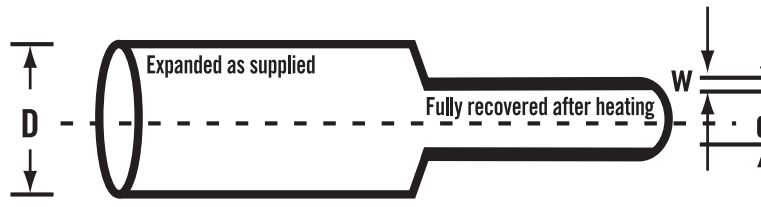
TYPICAL APPLICATIONS

- Environmental sealing of simple in-line splices
- Strain relief and sealing of connectors and terminals
- Mechanical protection of components



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED						LENGTHS (STICKS)	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		TOTAL WALL THICKNESS (NOM) W		MELTABLE WALL THICKNESS (NOM)			
	MM	IN	MM	IN	MM	IN	MM	IN	M	IN
0125	3.2	1/8	1.0	0.040	1.0	0.040	0.5	0.020	1.2	48
0187	4.7	3/16	1.5	0.060	1.0	0.040	0.5	0.020	1.2	48
0250	6.4	1/4	2.0	0.080	1.0	0.040	0.5	0.020	1.2	48
0375	9.5	3/8	3.2	0.125	1.5	0.060	0.7	0.027	1.2	48
0500	12.7	1/2	4.1	0.160	1.8	0.070	0.8	0.030	1.2	48
0750	19.1	3/4	6.4	0.250	1.8	0.070	0.8	0.030	1.2	48
1000	25.4	1	8.1	0.320	2.5	0.100	1.0	0.040	1.2	48
1250	31.8	1¼	10.6	0.416	2.5	0.100	1.0	0.040	1.2	48
1500	39.9	1½	13.0	0.510	2.5	0.100	1.0	0.040	1.2	48



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK), White (WT), Red (RD)
- Please specify the product name, order number and options you require
- Order Example: CPA 300, 0125, black, 48 in lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

CWWT 450

4:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

THIN WALL ADHESIVE LINED CROSS-LINKED POLYOLEFIN

Water clear, adhesive lined, heat shrink tubing specifically designed for water well pump applications. Provides excellent clarity on recovery while insulating and protecting electrical connections

FEATURES AND BENEFITS

- 4:1 shrink ratio
- High shrink ratio allows for a wide range of diameters
- Allows for the examination of substrate wiring
- Adhesive lined for a water tight seal
- Flexible
- Continuous operating temperature: -55°C to 110°C
- Shrink temperature: 120°C

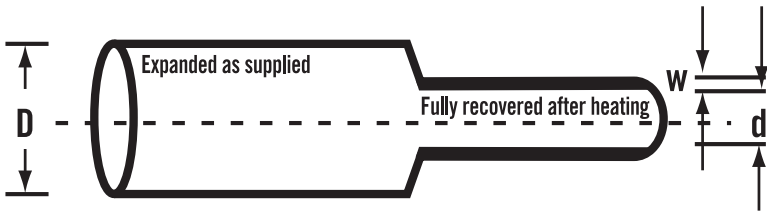
TYPICAL APPLICATIONS

- Environmental protection and insulation of electrical connections
- See-through over protection of labels and printing
- Irrigation and landscape lighting systems



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		TOTAL WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	MM	IN
0400	10.5	0.413	2.6	0.102	1.1	0.043	76.2	3



ORDERING

- Select options:
 - Color: Clear (CL)
- Please specify the product name, order number and options you require
- Order Example: CWWT 450, 0400, clear

Please contact your Customer Service Representative for information on custom sizes, lengths and material data sheet.

All information contained in this data sheet is believed to be reliable. We advise, however, that customers should separately evaluate the suitability of our products for their particular application. DSG-Canusa and ShawCor give no guarantees in respect of the accuracy or sufficiency of the information presented and disclaim any liability regarding its use. Our responsibilities are only those listed in our Standard Terms and Conditions of Sale for these products. In no instance will we be liable for any eventual, indirect or consequential damage or damages arising from the sale, resale, transfer, use or misuse of the product.

INSULATE
SEAL
PROTECT

THIN WALL ADHESIVE LINED CROSS-LINKED SEMI-RIGID POLYOLEFIN

Semi-rigid, adhesive lined, heat shrink tubing ideal for higher temperature applications and where strain relief or abrasion resistance is required

FEATURES AND BENEFITS

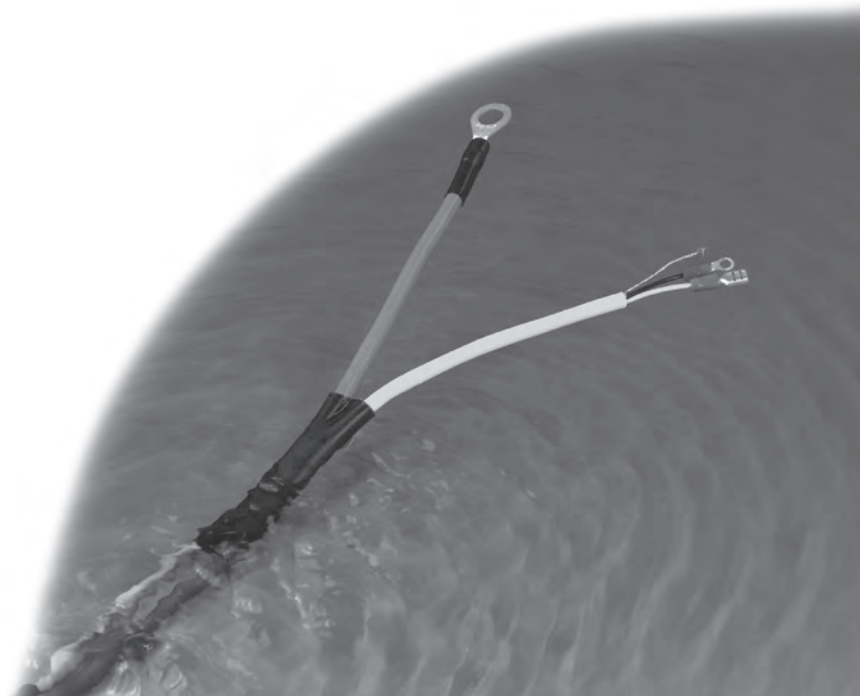
- >2:1 shrink ratio
- Thick adhesive liner ensures complete environmental protection
- Semi-rigid jacket for excellent strain relief
- Seals against water and other contaminants
- Inner adhesive bonds to plastics, rubbers and metals
- Controlled adhesive viscosity prevents excessive flow on terminals
- Continuous operating temperature: -55°C to 110°C
- Shrink temperature: 110°C

STANDARDS

- Industrial and Automotive OEM Approvals

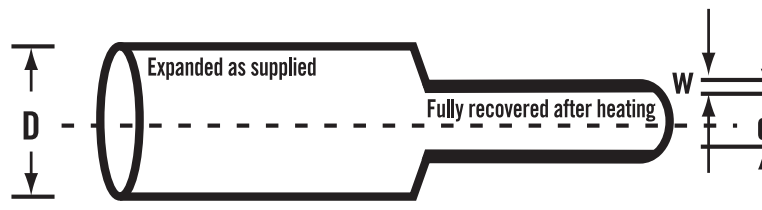
TYPICAL APPLICATIONS

- Strain relief and sealing of terminals
- Corrosion protection of high temperature components and brazed joints
- Mechanical protection of wire leads



DIMENSIONS

ORDER NUM- BER	EXPANDED		RECOVERED						LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		TOTAL WALL THICKNESS (NOM) W		MELTABLE WALL THICKNESS (NOM)			
	MM	IN	MM	IN	MM	IN	MM	IN	M	FT
0125	3.2	1/8	0.8	0.031	0.90	0.035	0.40	0.016	1.2	4
0187	4.8	3/16	1.5	0.059	1.40	0.055	0.80	0.032	1.2	4
0250	6.4	1/4	2.0	0.079	1.40	0.055	0.75	0.030	1.2	4
0375	9.5	3/8	3.4	0.134	1.65	0.065	1.00	0.039	1.2	4
0500	12.7	1/2	5.0	0.196	1.70	0.066	1.00	0.039	1.2	4
0750	19.0	3/4	8.0	0.315	1.95	0.076	1.20	0.047	1.2	4
1000	25.4	1	10.2	0.401	2.00	0.078	1.20	0.047	1.2	4



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK)
 - Printing: Printed or Unprinted
 - Length: Standard stick, spool or custom cut length
- Please specify the product name, order number and options you require
- Order Example: DERAY[®] HXKT, 0187, black, unprinted, 4 ft (1.2 m) lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

INSULATE
SEAL
PROTECT

THIN WALL ADHESIVE LINED CROSS-LINKED POLYOLEFIN

Flexible heat shrink tubing with a temperature resistant polyamide adhesive inner lining. Ideal for protecting components in a wide range of electrical and mechanical applications where adhesion to connector and metal substrates is critical

FEATURES AND BENEFITS

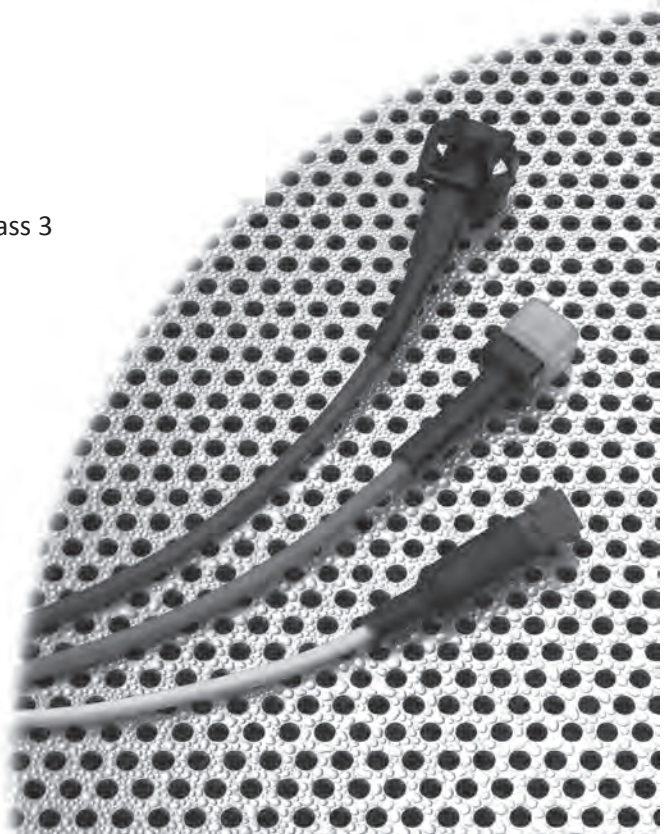
- 4:1 shrink ratio allows for coverage of irregularly shaped connectors and components
- Flame retardant
- Specially designed polyamide adhesive protects components at higher temperatures
- Superior sealing against water and other contaminants
- Inner adhesive bonds to plastics, rubbers and metals
- Continuous operating temperature: -55°C to 125°C
- Shrink temperature: 100°C

STANDARDS

- Meets the material performance of SAE-AMS-DTL-23053/4 Class 3
- Automotive OEM approvals

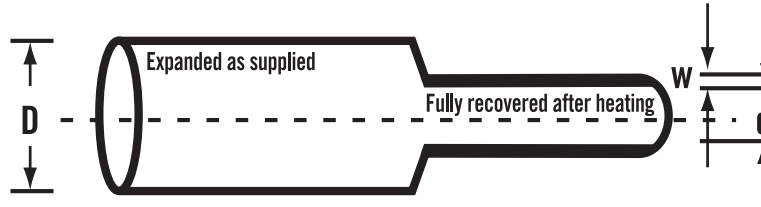
TYPICAL APPLICATIONS

- Retrofit protection of connectors
- Repair of damaged wire harnesses
- Moisture sealing and strain relief at connectors and terminals



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED						LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) D		TOTAL WALL THICKNESS (NOM) W		ADHESIVE WALL THICKNESS (NOM)			
	MM	IN	MM	IN	MM	IN	MM	IN	M	FT
0157	4.0	0.157	1.0	0.039	1.00	0.039	0.40	0.016	300	984
0315	8.0	0.315	2.0	0.080	1.20	0.045	0.40	0.016	150	492
0472	12.0	0.472	3.0	0.118	1.40	0.055	0.40	0.016	100	328
0630	16.0	0.630	4.0	0.160	1.70	0.066	0.60	0.023	50	164
0945	24.0	0.945	6.0	0.240	2.10	0.083	0.60	0.023	50	164
1260	32.0	1.260	8.0	0.315	2.40	0.094	0.70	0.027	50	164
2047	52.0	2.047	13.0	0.512	2.40	0.094	0.70	0.027	30	98



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select Options:
 - Color: Black (BK) or Clear (CL)
- Please specify the product name plus the options you require
- Order Example: DERAY® IHKT, 0157, black, 984 ft lengths

Please contact your Customer Service Representative for information on custom colors, sizes and lengths and material data sheet.

DERAY[®] CRIMPSEAL II

3:1
SHRINK RATIO

INSULATE
SEAL
PROTECT

HEAT SHRINK INSULATED CONNECTORS

Crystal clear, semi-rigid, adhesive lined tubing with integral solderless splice connector

FEATURES AND BENEFITS

- Exceptional clarity for visual confirmation of seal
- Seals & protects against water, corrosive compounds, moisture & contaminants
- Tough, durable heat shrink tubing resists abrasion, crimp tool damage & splitting
- Shinks 40% faster than nylon, preventing wire damage
- Inner adhesive bonds to plastics, rubbers & metals
- Meets & conforms to OEM wiring specifications for installation & repairs
- Continuous operating temperature: -55 to 125°C
- 90°C minimum shrinking temperature

TYPICAL APPLICATIONS

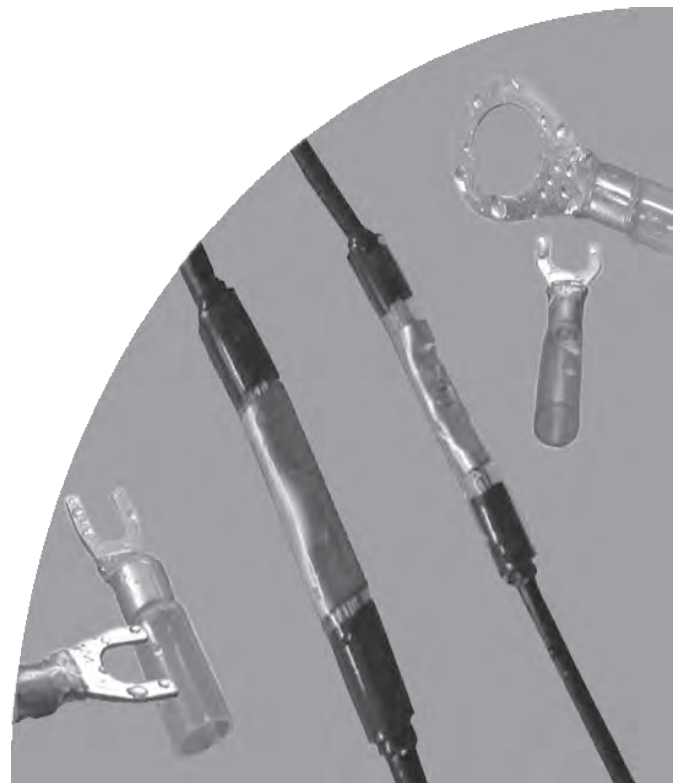
- Wire to Wire splicing
- Environmental protection for crimp-connections & terminals
- Automotive / trucking repair and maintenance
- Commercial, electronics & appliance wiring
- Marine electronics & fleet maintenance

MATERIALS

- Insulation tube:
Cross-linked ionic polymer with a hot melt adhesive liner
- Metal Connector:
CU 99.9% per EN 13600
Tin Plate 5 micron min

ORDERING

- Determine the wire gauge size that you require
- Select the most appropriate connector for your application
- Please specify the product by: name, insulation color & code
Order example:
Deray[®] CrimpSeal II, butt connector, 22-18AWG, red, 75122180000L38



DERAY® CRIMPSEAL II

ORDER REFERENCE / CONNECTOR TYPE			SIZE		STUD SIZE		TUBE DIAMETER (Ø)		TUBE LENGTH	TUBE EXP WALL THICKNESS
	COLOR	CODE	AWG	MM²	IN	MM	EXPANDED (MM) NOMINAL	RECOVERED (MM) NOMINAL	(L MM)	(MM) NOMINAL

BUTT CONNECTOR



Clear	75128220000L25	28-22	0.1 – 0.5	N/A	3.7	1.0	31±0.25	0.635
Red	75122180000L38	22-18	0.5-1.5	N/A	4.3	1.4	38±0.25	0.740
Blue	75116140000L38	16-14	1.5-2.5	N/A	5.0	1.8	38±0.25	0.740
Yellow	75112100000L44	12-10	4-6	N/A	6.5	2.2	44±0.25	0.740

RING CONNECTOR



Red	75222180157L25	22-18	0.5 – 1.5	#8	4	4.3	1.4	25±.025	0.635
Red	75222180197L25	22-18	0.5 – 1.5	#10	5	4.3	1.4	25±.025	0.635
Red	75222180250L25	22-18	0.5 – 1.5	1/4	6	4.3	1.4	25±.025	0.635
Red	75222180313L25	22-18	0.5 – 1.5	5/16	8	4.3	1.4	25±.025	0.635
Red	75222180375L25	22-18	0.5 – 1.5	3/8	10	4.3	1.4	25±.025	0.635
Blue	75216140157L25	16-14	1.5-2.5	#8	4	5.0	1.8	25±.025	0.740
Blue	75216140197L25	16-14	1.5-2.5	#10	5	5.0	1.8	25±.025	0.740
Blue	75216140250L25	16-14	1.5-2.5	1/4	6	5.0	1.8	25±.025	0.740
Blue	75216140313L25	16-14	1.5-2.5	5/16	8	5.0	1.8	25±.025	0.740
Blue	75216140375L25	16-14	1.5-2.5	3/8	10	5.0	1.8	25±.025	0.740
Yellow	75212100157L25	12-10	4-6	#8	4	6.5	2.2	25±.025	0.740
Yellow	75212100197L25	12-10	4-6	#10	5	6.5	2.2	25±.025	0.740
Yellow	75212100250L25	12-10	4-6	1/4	6	6.5	2.2	25±.025	0.740
Yellow	75212100313L25	12-10	4-6	5/16	8	6.5	2.2	25±.025	0.740
Yellow	75212100375L25	12-10	4-6	3/8	10	6.5	2.2	25±.025	0.740

SPADE CONNECTOR



Red	75322180157L25	22-18	0.5 – 1.5	#8	4	4.3	1.4	25±.025	0.58
Red	75322180197L25	22-18	0.5 – 1.5	#10	5	4.3	1.4	25±.025	0.58
Blue	75316140157L25	16-14	1.5-2.5	#8	4	5.0	1.8	25±.025	0.740
Blue	75316140197L25	16-14	1.5-2.5	#10	5	5.0	1.8	25±.025	0.740
Yellow	75312100157L25	12-10	4-6	#8	4	6.5	2.2	25±.025	0.740
Yellow	75312100197L25	12-10	4-6	#10	5	6.5	2.2	25±.025	0.740

QUICK DISCONNECT (MALE)



Red	75422180000L25	22-18	0.5 – 1.5	N/A	6.3 x 0.8	4.3	1.4	25±.025	0.740
Blue	75416140000L25	16-14	1.5-2.5	N/A	6.3 x 0.8	5.0	1.8	25±.025	0.740
Yellow	75412100000L25	12-10	4-6	N/A	6.3 x 0.8	6.5	2.2	25±.025	0.740

QUICK DISCONNECT (FEMALE)



Red	75522180000L25	22-18	0.5 – 1.5	N/A	6.3 x 0.8	4.3	1.4	25±.025	0.58
Blue	75516140000L25	16-14	1.5-2.5	N/A	6.3 x 0.8	5.0	1.8	25±.025	0.740
Yellow	75512100000L25	12-10	4-6	N/A	6.3 x 0.8	6.5	2.2	25±.025	0.740

APPLICATION NOTES

- Strip wires min 7.5 mm & insert into the crimp barrel. Crimp with a DSG-Canusa (or equivalent) hand tool.
- Heat the shrink tube along the entire length, working from the centre out to the edges until a water tight seal is formed.
- Allow to cool before inspection for splice integrity.
- All splice assemblies will conform to most OEM & repair requirements and specifications.

Please contact your Customer Service Representative for information on custom sizes, lengths and material data sheet.

All information contained in this data sheet is believed to be reliable. We advise, however, that customers should separately evaluate the suitability of our products for their particular application. DSG-Canusa and ShawCor give no guarantees in respect of the accuracy or sufficiency of the information presented and disclaim any liability regarding its use. Our responsibilities are only those listed in our Standard Terms and Conditions of Sale for these products. In no instance will we be liable for any eventual, indirect or consequential damage or damages arising from the sale, resale, transfer, use or misuse of the product.



AUTOMOTIVE PRODUCTS

DSG-Canusa offers complete solutions to automotive applications including:

- Full line of OEM approved products
- Advanced application equipment for improved processing
- Turnkey support

In addition to the products found in the Single Wall, Dual Wall and Low Voltage sections of this catalog, DSG-Canusa offers custom designed products for automotive splice sealing, water blocking and terminal sealing.

DERAY[®] SPLICEMELT

4:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

ADHESIVE LINED CROSS-LINKED POLYOLEFIN

Adhesive lined heat shrink specifically designed to insulate, seal and protect in-line splices in automotive wire harnesses and electronic assemblies

FEATURES AND BENEFITS

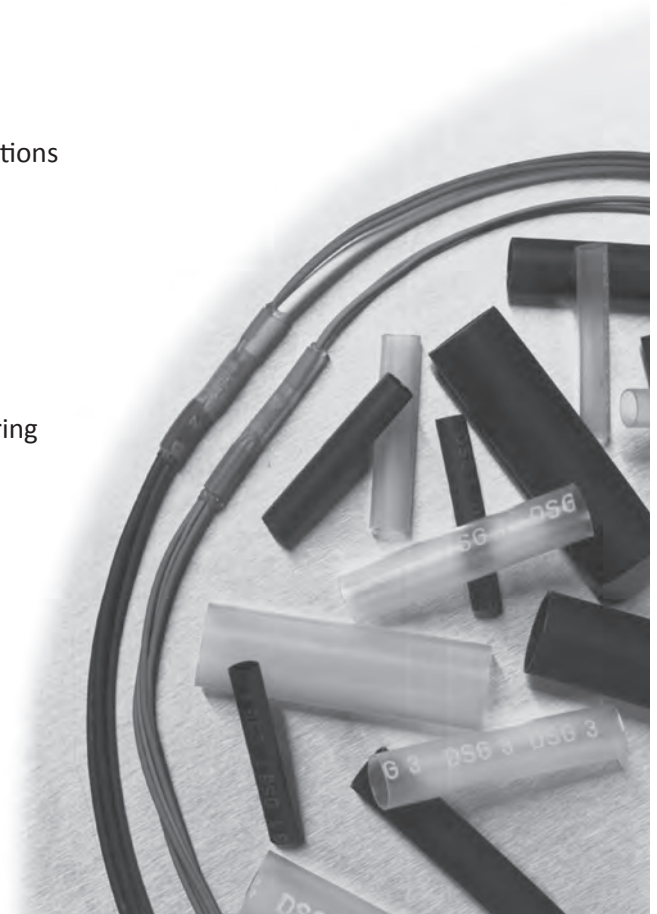
- 4:1 shrink ratio to fit varying splice configurations and substrate profiles
- Seals and protects against water, moisture and chemicals
- Adhesive bonds readily to PVC, XLPE and PP-EPDM cable jackets
- Shrinks rapidly for quick installation
- Continuous operating temperature: -40°C to 125°C
- Shrink temperature: 120°C

STANDARDS

- Approved to all major Automotive OEM splice sealing specifications

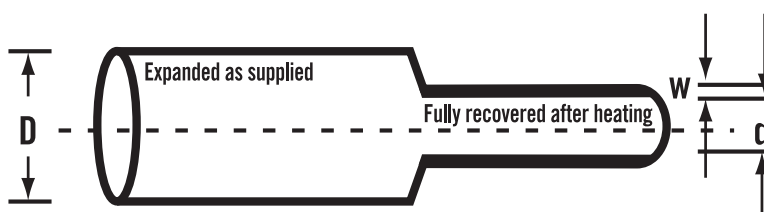
TYPICAL APPLICATIONS

- Environmental sealing of in-line splices
- Sealing and strain relief of connectors and terminals
- Abrasion protection and electrical insulation of automotive wiring harness splices



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				CUT LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		TOTAL WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	MM	IN
1	6.0	0.236	1.4	0.055	1.35	0.053	50	1.97
2	8.0	0.315	1.6	0.063	1.75	0.069	50	1.97
3	12.0	0.472	2.5	0.098	2.00	0.079	65	2.56
4	18.0	0.708	3.7	0.146	2.60	0.102	75	2.95



INSTALLATION

- DSG-Canusa offers a comprehensive selection of technically advanced shrink appliances that ensure process stability and repeatability
- Minimum recovery temperature: 120°C
- Adhesive activation temperature: 110°C
- Use with DERAY® FST shrink ovens for best performance

ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select Options:
 - Color: Black (BK) or Clear (CL)
 - Length: Standard cut length, 4 ft stick or spool
- Please specify the product name plus the options you require
- Order Example: DERAY® Splicemelt, 3, black, 65 mm length

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

INSULATE
SEAL
PROTECT

ADHESIVE LINED CROSS-LINKED POLYOLEFIN

Semi-rigid, dual wall heat shrink tubing designed to seal & environmentally protect splices in the most demanding applications

FEATURES AND BENEFITS

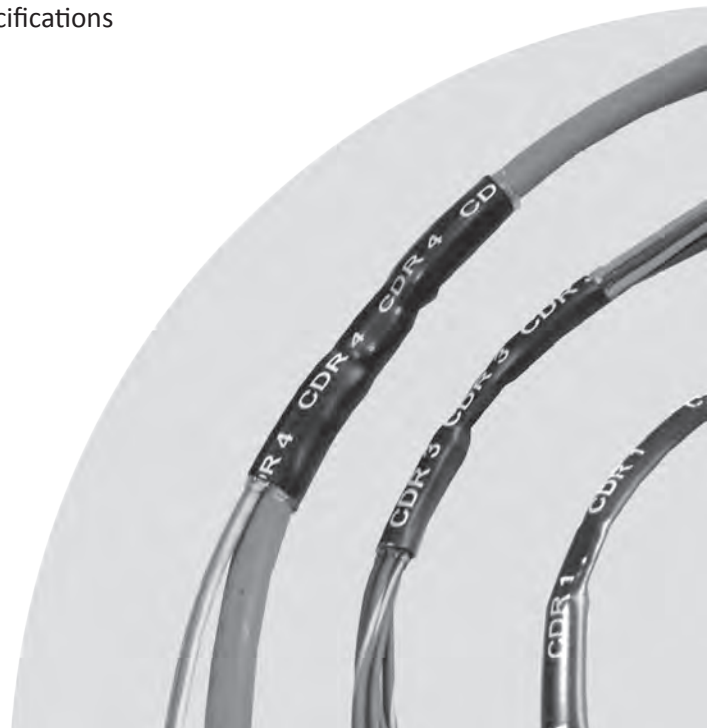
- 4:1 shrink ratio allows for fewer sizes to cover numerous splice configurations and diameters
- Environmentally seal and protect splices and terminals in automotive, on highway/off road heavy equipment applications
- Highly resistant to Diesel and other common automotive fluids and solvents
- Semi-rigid and mechanically tough outer jacket provides added strain relief and excellent abrasion protection
- Thick adhesive liner forms an effective barrier against fluids and moisture penetration
- Continuous operating temperature: -40°C to 130°C
- Shrink temperature: 130°C

STANDARDS

- Approved to all major Automotive OEM splice sealing specifications

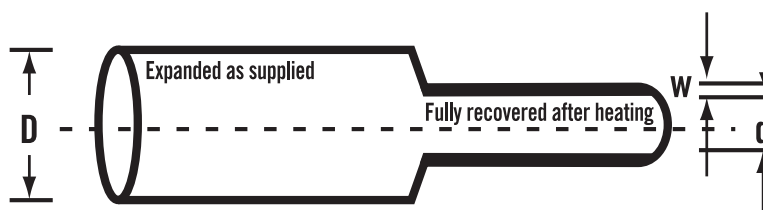
TYPICAL APPLICATIONS

- Environmental sealing of in-line splices, connectors & terminals
- Strain relief
- Abrasion protection and electrical insulation
- On-highway and off-road heavy equipment
- Fleet & marine sealing & protection



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				CUT LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		TOTAL WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	MM	IN
1	6	0.236	1.27	0.050	1.27	0.050	50	1.97
2	8	0.315	1.52	0.060	1.52	0.060	50	1.97
3	12	0.472	2.03	0.080	1.91	0.075	65	2.56
4	18	0.710	3.81	0.150	2.41	0.095	75	2.95



INSTALLATION

- DSG-Canusa offers a comprehensive selection of technically advanced shrink appliances that ensure process stability and repeatability
- Minimum recovery temperature: 125°C
- Adhesive activation temperature: 110°C
- Use with DERAY® FST shrink ovens for best performance

ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
 - Select Options:
 - Color: Black (BK)
 - Length: Standard cut length, 4 ft stick or spool
 - Please specify the product name plus the options you require
- Order Example: CDR, 3, black, 65 mm length

Please contact your Customer Service Representative for information on custom sizes, lengths and material data sheet.

DERAY[®] SPLICEMELT CAP

INSULATE
SEAL
PROTECT

4:1
SHRINK RATIO



ADHESIVE LINED INSULATING CAPS

Adhesive lined, heat shrink insulating caps specifically designed to insulate, seal and protect end or stub splices in wiring harnesses and electronic assemblies

FEATURES AND BENEFITS

- 4:1 shrink ratio allows fewer sizes to cover a wide range of profiles
- Seals and protects against water, moisture and chemicals
- Adhesive bonds readily to PVC, XLPE and PP-EPDM cable jackets
- Shrinks rapidly for quick installation
- Operating temperature: -40°C to 125°C
- Minimum shrink temperature: 120°C

STANDARDS

- Approved to all major Automotive OEM splice sealing specifications

TYPICAL APPLICATIONS

- Termination & protection of end and stub splices
- Abrasion protection and strain relief

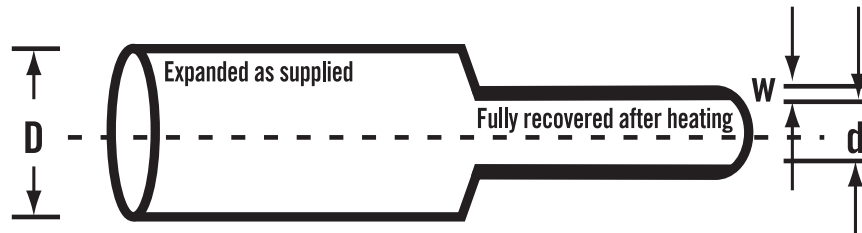


DERAY[®] SPLICEMELT CAP

ADHESIVE LINED INSULATING CAPS

DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				CUT LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	MM	IN
0	3.0	0.118	0.85	0.033	1.05	0.410	30	1.20
1	6.0	0.236	1.4	0.055	1.35	0.0531	50	2.00
2	8.0	0.314	1.6	0.063	1.75	0.0689	50	2.00
3	12.0	0.472	2.5	0.098	2.00	0.0787	65	2.55



INSTALLATION

- DSG-Canusa offers a comprehensive selection of technically advanced shrink appliances that ensure process stability and repeatability
- Minimum recovery temperature: 120°C
- Adhesive activation temperature: 110°C

ORDERING

- Select a dimension which will shrink snugly over the component to be covered
- Select options:
 - Color: Black (BK), Clear (CL)
 - Printing: Printed or Unprinted
- Please specify the product name, order number and options you require
- Order Example: DERAY[®] SpliceMelt Cap 125, 3, black, unprinted, 2 in

Please contact your Customer Service Representative for information on custom sizes, lengths and material data sheet.

CDR CAP

INSULATE
SEAL
PROTECT

4:1
SHRINK RATIO



SEMI-RIGID, ADHESIVE LINED INSULATING CAPS

Semi-rigid, adhesive lined, heat shrink insulating caps specifically designed to insulate, seal and protect end or stub splices under extreme operating conditions

FEATURES AND BENEFITS

- 4:1 shrink ratio allows fewer sizes to cover a wide range of profiles
- Seals and protects against water, moisture and chemicals
- Adhesive bonds readily to PVC, XLPE and PP-EPDM cable jackets
- Operating temperature: -40°C to 130°C
- Minimum shrink temperature: 130°C

STANDARDS

- Approved to all major Automotive OEM splice sealing specifications

TYPICAL APPLICATIONS

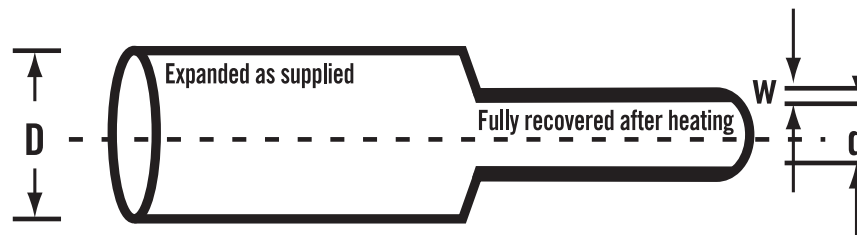
- Termination & protection of end and stub splices in automotive and electronic applications
- Abrasion protection and strain relief



SEMI-RIGID, ADHESIVE LINED INSULATING CAPS

DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				CUT LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	MM	IN
1	6	0.236	1.27	0.050	1.27	0.050	30	1.20
2	8	0.315	1.52	0.060	1.52	0.060	50	2.00
3	12	0.472	2.03	0.080	1.91	0.075	50	2.00



INSTALLATION

- DSG-Canusa offers a comprehensive selection of technically advanced shrink appliances that ensure process stability and repeatability
- Minimum recovery temperature: 125°C
- Adhesive activation temperature: 110°C

ORDERING

- Select a dimension which will shrink snugly over the component to be covered
- Select options:
 - Color: Black (BK)
 - Printing: Printed or Unprinted
- Please specify the product name, order number and options you require
- Order Example: CDR Cap 3, black, 2 in

Please contact your Customer Service Representative for information on custom sizes, lengths and material data sheet.

CFRA

4:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

HIGHLY FLAME RETARDANT HEAT SHRINK POLYOLEFIN TUBING

Highly flame retardant, semi-rigid, cross-linked dual wall heat shrink tubing designed for splice sealing and fuse link protection

FEATURES AND BENEFITS

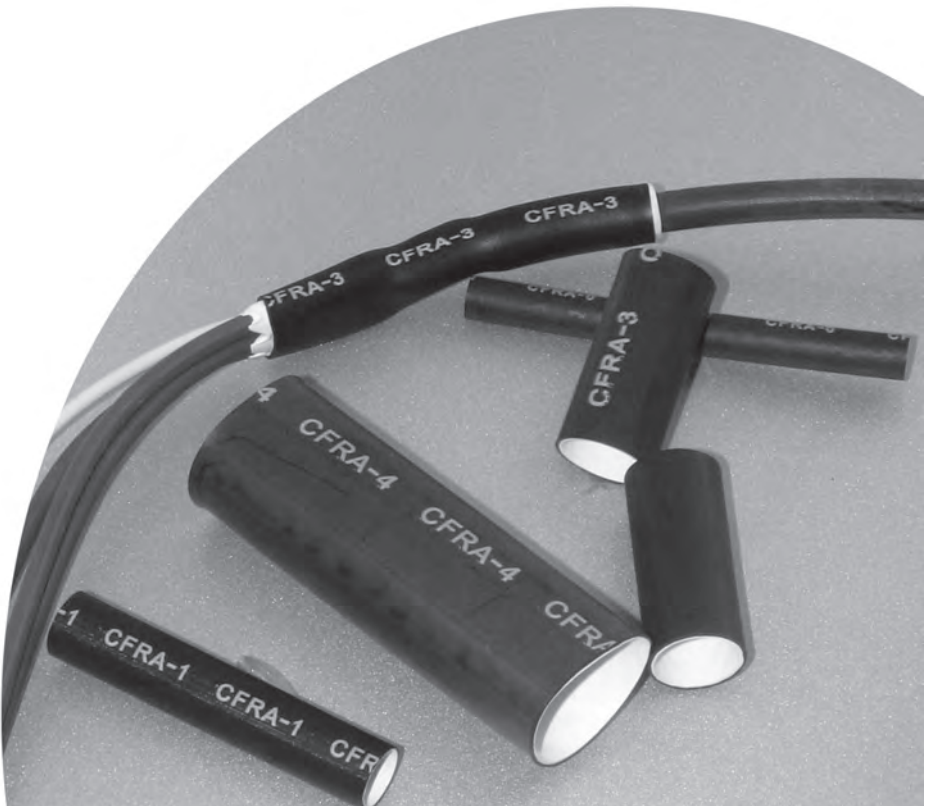
- 4:1 shrink ratio to cover varying splice configurations and substrate profiles
- Jacket and adhesive are exceptionally flame retardant
- Economical way to environmentally seal and protect automotive fuse-links, splices and terminals
- Highly resistant to common automotive fluids and solvents
- Semi-rigid and mechanically tough outer jacket provides added strain relief and excellent abrasion protection
- Thick adhesive liner forms an effective barrier against fluids and moisture penetration
- Continuous operating temperature: -40°C to 125°C
- Shrink temperature: 125°C

STANDARDS

- Delphi M3552
- Ford WSS- M99D56-A4

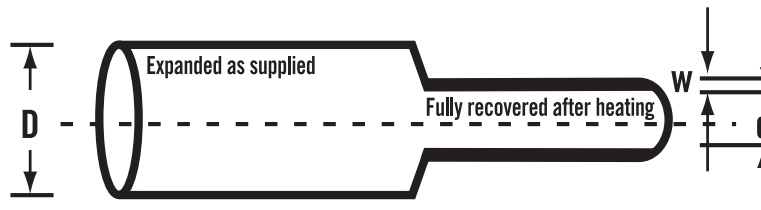
TYPICAL APPLICATIONS

- Automotive wire harness splice sealing and strain relief
- Insulation and environmental protection of terminals, connectors, and fuse links



DIMENSIONS

SIZE	EXPANDED		RECOVERED					
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W		ADHESIVE WALL THICKNESS	
	MM	IN	MM	IN	MM	IN	MM	IN
No. 0	5.08	0.200	1.27	0.050	1.40	0.055	0.635	0.025
No. 1	7.62	0.300	1.65	0.065	1.52	0.060	0.762	0.030
No. 2	9.02	0.355	2.29	0.090	1.52	0.060	0.762	0.030
No. 3	11.56	0.455	2.54	0.100	2.29	0.090	1.270	0.055
No. 4	17.78	0.700	4.45	0.175	2.54	0.100	1.524	0.060



INSTALLATION

- DSG-Canusa offers a comprehensive selection of technically advanced shrink appliances that ensure process stability and repeatability
- Minimum recovery temperature: 125°C
- Adhesive activation temperature: 110°C
- Use with DERAY® FST shrink ovens for best performance

ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- CFRA is cut to length on request.
- Please specify the product name, order number and options you require
- Order Example: CFRA, No. 0, black, 65 mm length

Please contact your Customer Service Representative for information on custom sizes, lengths and material data sheet.

DERAY[®] COLDMELT



INSULATE
SEAL
PROTECT

LONGITUDINAL WATER BLOCKING SYSTEM

DERAY[®] Coldmelt is the ultimate water blocking system for automotive wire harness feed-through locations

FEATURES AND BENEFITS

- A specially designed heat shrink tube, mastic strip and shrink oven system that seals 100% of the time
- Low temperature installation that reduces thermal stress and protects the cable insulation
- Cables are embedded individually into the mastic strips forming a barrier against fluids and moisture penetration
- Accommodates and seals harness bundles of up to 130 cables
- On or off-line installation to accommodate production requirements
- Grommet standardization
- Good adhesion on PVC, XLPE and PP-EPDM cable insulation
- Reduces total installed cost by eliminating drip loops
- Provides design flexibility that reduces wire harness installation time
- Operating temperatures: -55°C to 125°C

STANDARDS

- Approved to major OEM water blocking specifications

TYPICAL APPLICATIONS

- Water/moisture ingress elimination
- Noise dampening and reduction



CS HEAT SHRINK TUBE DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				CUT LENGTHS	
	INTERNAL DIAMETER (MIN)		INTERNAL DIAMETER (MAX)		TOTAL WALL THICKNESS (NOM)			
	MM	IN	MM	IN	MM	IN	MM	IN
0100	10.0	0.394	3.5	0.138	1.00	0.039	30.0	1.181
0180	18.0	0.708	5.0	0.197	1.20	0.047	30.0	1.181
0300	30.0	1.181	9.0	0.354	2.00	0.079	50.0	1.968
0350	35.0	1.378	13.0	0.512	1.90	0.075	62.0	2.440
0420	42.0	1.653	15.0	0.590	2.50	0.098	50.0	1.968
0500	50.0	1.968	15.0	0.590	2.50	0.098	62.0	2.440
0600	60.0	2.362	13.0	0.512	1.90	0.075	33.0	1.299

COLDMELT STRIP DIMENSIONS

WIDTH		THICKNESS		LENGTH	
MM	IN	MM	IN	MM	IN
19.0	0.748	1.5	0.059	25 to 125	1 to 5



DERAY® SealMan

INSTALLATION

DERAY® ColdMelt consists of two components:

- DERAY® ColdMelt strips - mastic adhesive strips used to embed all wires forming a water blocking barrier
- DERAY® CS heat shrink - low shrink temperature heat shrink to cover the ColdMelt strips to maintain a tight cylindrical bundle

The DERAY® SealMan oven (on-board or tabletop) is used to shrink the tubing and form the water blocking bundle.

ORDERING

- The product is customized for the application. Contact DSG-Canusa to determine requirements.

DERAY[®] PRESSMELT



INSULATE
SEAL
PROTECT

LONGITUDINAL WATER SEALING SYSTEM

A specially designed sealing system to enhance and provide longitudinal water sealing in small cable bundles

FEATURES AND BENEFITS

- The system consists of a heat shrink sleeve and adhesive inserts that seal large and non-standard wire harness splices and plug connectors
- Adhesive inserts compliment the adhesive lined shrink tube to ensure splice sealing
- Good chemical and fuel resistance
- Available in 'U' and 'Star' shaped profiles
- Good adhesion to PVC, XLPE and PP-EPDM wire insulating materials
- Continuous operating temperature: -40°C to 105°C

STANDARDS

- Approved to OEM splice sealing specifications

TYPICAL APPLICATIONS

- Sealing of splices, connectors and terminals



DIMENSIONS

PROFILE	INTERNAL DIAMETER		OUTSIDE DIAMETER		OPENING		LENGTH	
	MM	IN	MM	IN	MM	IN	MM	IN
U5	2.7	0.106	5.5	0.217	1.2	0.047	5.0	0.197
U7	3.5	0.138	7.5	0.295	1.4	0.055	5.0	0.197
S5	n/a	n/a	7.5 - 8.5	0.295 - 0.335	n/a	n/a	5.0	0.197
S9	n/a	n/a	7.5 - 8.5	0.295 - 0.335	n/a	n/a	5.0	0.197

INSTALLATION

The DERAY® PressMelt system consists of two primary components:

- DERAY® PressMelt adhesive inserts are available in a variety of geometric shapes as well as 85°C and 105°C operating temperature ranges.
- DERAY® IAKT/IHKT or SpliceMelt heat shrink tubing is cross-linked polyolefin tubing that is used to cover and encapsulate the entire installation.

DERAY® WorkMan or DERAY® DockMan shrink ovens are recommended for repeatable application.

Please contact your Customer Service Representative for information on customized product.

DERAY[®] DUOMELT



INSULATE
SEAL
PROTECT

LONGITUDINAL WATER BLOCKING SOLUTION

DERAY[®] DuoMelt seals and environmentally protects connectors and cable bundles

FEATURES AND BENEFITS

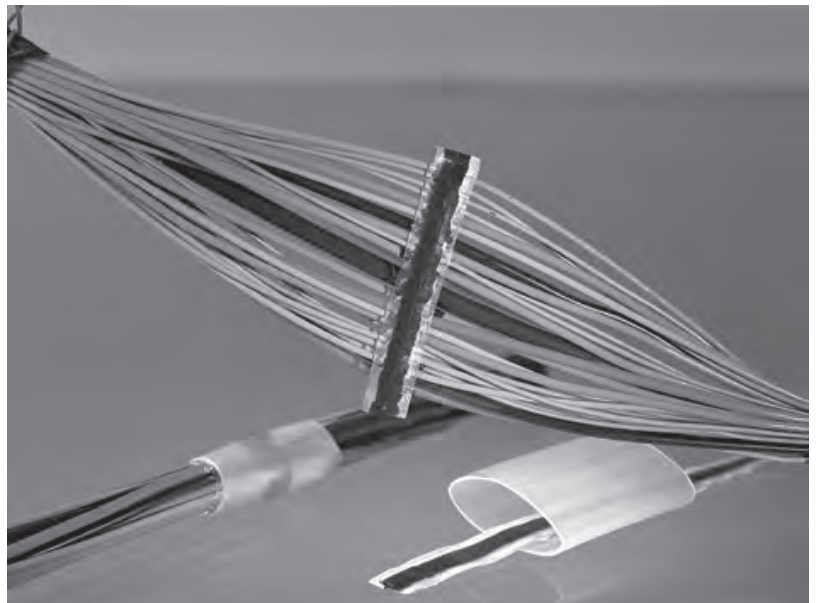
- A specially designed heat shrink tube and mastic lined adhesive tape sealing system that provides longitudinal water sealing for cable bundles, plug connectors and splices
- Environmentally seals and protects wire bundles up to 20 wires
- Cables are embedded individually into the adhesive tape to ensure 100% sealing
- Good chemical and fuel resistance
- Good adhesion to PVC, XLPE and PP-EPDM wire insulating materials
- Continuous operating temperature: -40°C to 105°C

STANDARDS

- Approved to OEM longitudinal water blocking specifications

TYPICAL APPLICATIONS

- Water/moisture ingress elimination
- Abrasion protection and strain relief
- Noise dampening and reduction



DIMENSIONS

WIDTH		THICKNESS	
MM	IN	MM	IN
10.0	0.394	1.1	0.043
10.0	0.394	1.5	0.059
15.0	0.590	1.5	0.059
15.0	0.590	1.8	0.071

INSTALLATION

The DERAY® DuoMelt system consists of two primary components:

- DERAY® DuoMelt mastic adhesive strips, 85°C and 105°C operating temperatures, used to seal all of the individual elements of the cable bundle.
- DERAY® IAKT/IHKT heat shrink tubing is cross-linked polyolefin tubing that is used to cover and encapsulate the entire installation.

DERAY® WorkMan or DERAY® DockMan shrink ovens are recommended for repeatable application.

Please contact your Customer Service Representative for information on customized product

DERAY[®] SHRINK APPLIANCES

INSULATE
SEAL
PROTECT

APPLICATION MADE EASY

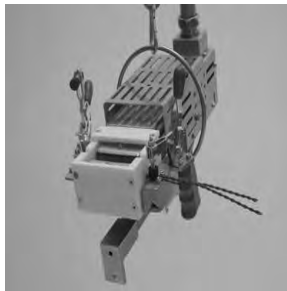
In addition to the standard heat shrink product line, DSG-Canusa provides a full range of technically advanced shrink appliances

FEATURES AND BENEFITS

- PLC controlled for tightly governed process parameters
- Multi-lingual operator interfaces
- Easily integrated into existing manufacturing environments
- Full line of standard off the shelf machines
- Capabilities to construct custom machines and accessories for unique applications
- Part of a full turnkey solution
- Exceptional reliability record with low maintenance costs
- Can be configured for on or off-line operation

TYPICAL APPLICATIONS

- Automotive splice sealing
- Automotive water blocking



DERAY® SHRINK APPLIANCES

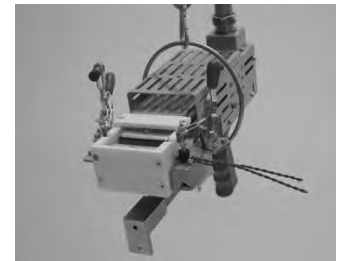


DERAY® SPlicEMAN IR

- A time and temperature process controlled heat shrink appliance specifically designed for batch splice sealing applications. The device is typically used with DERAY® SpliceMelt but can accommodate a full range of tubing. Special features include hands free operation and splice ejection after each shrink cycle.

DERAY® DOCKMAN

- A process controlled heat shrink appliance designed for general purpose shrink applications on a wire harness board. The device is most often used with the DERAY® DuoMelt, DERAY® PressMelt and small DERAY® ColdMelt applications.



DERAY® SEALMAN

- A process controlled heat shrink appliance specifically designed to install the DERAY® ColdMelt water blocking system. It features a carefully designed shrink zone and a compression mechanism to mechanically block and prevent in-vehicle water penetration via the wire harness feed-through location. DERAY® SealMan can be configured for either on-board or bench mount operation.

DERAY® FST

- The ultimate tunnel oven specifically designed for continuous processing of automotive and terminal wire splices. It's PLC controlled temperature and belt speed settings ensure process repeatability. It also fits easily into any production setting ensuring consistency and repeatability. The FST oven has proven to be the best in class shrink appliance for both economy and reliability.



In addition to standard heat guns and torches, DSG-Canusa offers a selection of standard and custom designed ovens for hose and pipe or other specialized applications.



SPECIALTY NON-POLYOLEFIN PRODUCTS

DSG-Canusa provides special materials for demanding industrial and wire harness applications.

These products, made of materials ranging from elastomers to fluoropolymers, offer increased protection against extreme temperatures and harsh operating environments.

CNP 200

2:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

THIN WALL CROSS LINKED CHLORINATED POLYOLEFIN

Thin Wall Cross Linked Chlorinated Polyolefin heat shrink tubing suitable for harnessing, hydraulic couplings and applications requiring exceptional flexibility

FEATURES AND BENEFITS

- 2:1 shrink ratio
- Superior cut-through and abrasion resistance
- Very flexible even at low temperatures
- Excellent oil resistance
- Continuous operating temperature: -70°C to 120°C
- Shrink temperature: 135°C

STANDARDS

- MIL-R-46846 Type 1
- SAE-AMS-DTL-23053/1 Class 1 and 2
- AMS 3623

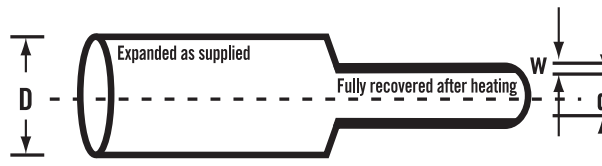
TYPICAL APPLICATIONS

- Insulation, strain relief and abrasion resistance for wire harnesses exposed to fluids and solvents



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT
0125	3.18	0.125	1.57	0.062	0.76	0.030	60	200
0187	4.75	0.187	2.36	0.093	0.89	0.035	60	200
0250	6.35	0.250	3.18	0.125	0.89	0.035	60	200
0375	9.53	0.375	4.75	0.187	1.02	0.040	60	100
0500	12.70	0.500	6.35	0.250	1.22	0.048	30	100
0625	15.88	0.625	7.92	0.312	1.32	0.052	30	100
0750	19.05	0.750	9.53	0.375	1.45	0.057	30	100
0875	22.23	0.875	11.10	0.437	1.65	0.065	30	100
1000	25.40	1.000	12.70	0.500	1.78	0.070	15	50
1250	31.75	1.250	15.88	0.625	2.21	0.087	15	50
1500	38.10	1.500	19.05	0.750	2.41	0.095	15	50
1750	44.45	1.750	22.23	0.875	2.72	0.107	15	50
2000	50.80	2.000	25.40	1.000	2.79	0.110	15	50
3000	76.20	3.000	38.10	1.500	3.18	0.125	15	50



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK)
 - Printing: Printed or Unprinted
- Please specify the product name, order number and options you require
- Order Example: CNP 200, 0250, black, unprinted, 200 ft lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

CVN 105



INSULATE
SEAL
PROTECT

THIN WALL PVC

Flexible PVC heat shrink tubing suitable for industrial and electronic applications

FEATURES AND BENEFITS

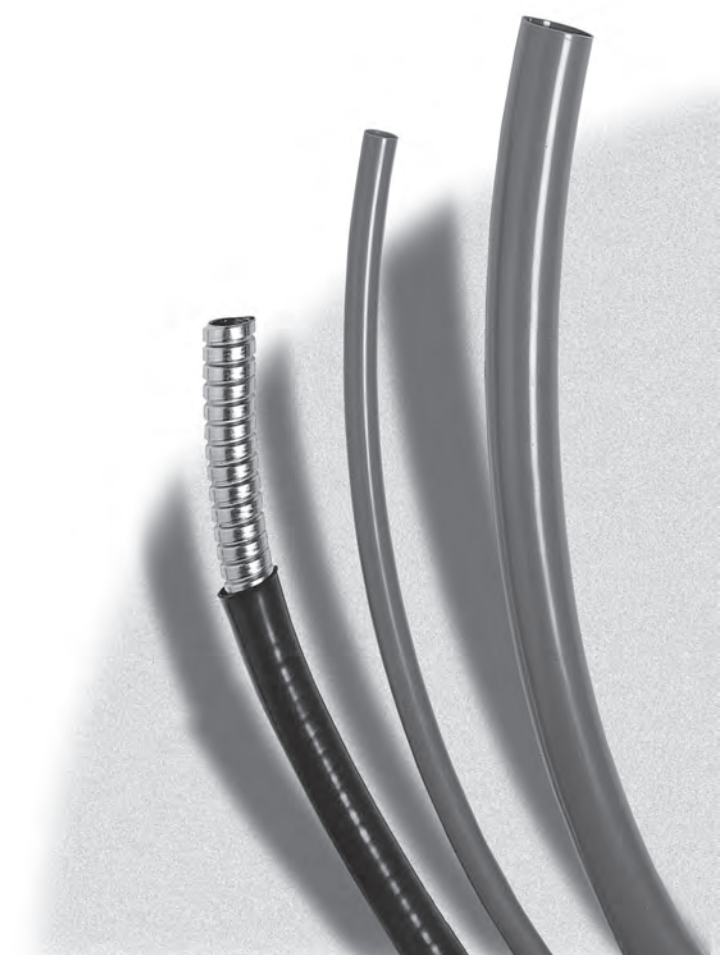
- 2:1 shrink ratio
- General purpose tubing
- Highly flame retardant
- Seven standard colors
- Flexible
- Continuous operating temperature: -30°C to 105°C
- Shrink temperature: 110°C

STANDARDS

- UL 224 VW-1
- CSA C22.2 No. 198.1, OFT

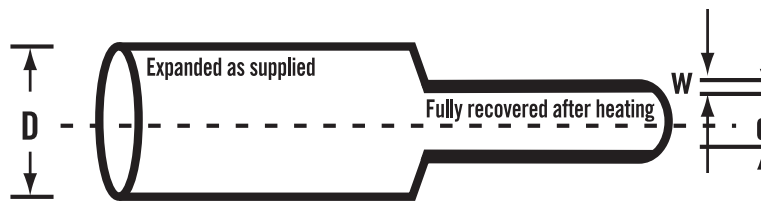
TYPICAL APPLICATIONS

- Protective layer for various substrates
- Harness covering



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT
0047	1.2	3/64	0.6	3/128	0.45	0.018	300	1,000
0062	1.6	1/16	0.8	1/32	0.45	0.018	300	1,000
0093	2.4	3/32	1.2	3/64	0.51	0.020	300	1,000
0125	3.2	1/8	1.6	1/16	0.64	0.025	300	1,000
0187	4.8	3/16	2.4	3/32	0.64	0.025	300	1,000
0250	6.4	1/4	3.2	1/8	0.64	0.025	300	1,000
0375	9.5	3/8	4.8	3/16	0.76	0.030	152	500
0500	12.7	1/2	6.4	1/4	0.76	0.030	76	250
0625	16.0	5/8	8.0	5/16	0.76	0.030	76	250
0750	19.0	3/4	9.5	3/8	0.89	0.035	76	250
1000	25.4	1	12.7	1/2	1.02	0.040	76	250
1250	32.0	1 1/4	16.0	5/8	1.02	0.040	76	250
1500	38.1	1 1/2	19.0	3/4	1.14	0.045	30	100
2000	50.8	2	25.4	1	1.27	0.050	30	100
3000	76.2	3	38.1	1 1/2	1.27	0.050	15	50
4000	101.6	4	50.8	2	1.40	0.055	15	50



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK), Red (RD), White (WT), Blue (BL), Yellow (YL), Green (GR), Clear (CL)
 - Printing: Printed or Unprinted
- Please specify the product name, order number and options you require
- Order Example: CVN 105, 0125, black, unprinted, 1,000 ft lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

DERAY[®] KY 175

2:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

THIN WALL PVDF

Transparent, thin wall PVDF (polyvinylidene fluoride) heat shrink tubing ideal for electronic, automotive and military applications requiring protection and see through inspection in aggressive environments

FEATURES AND BENEFITS

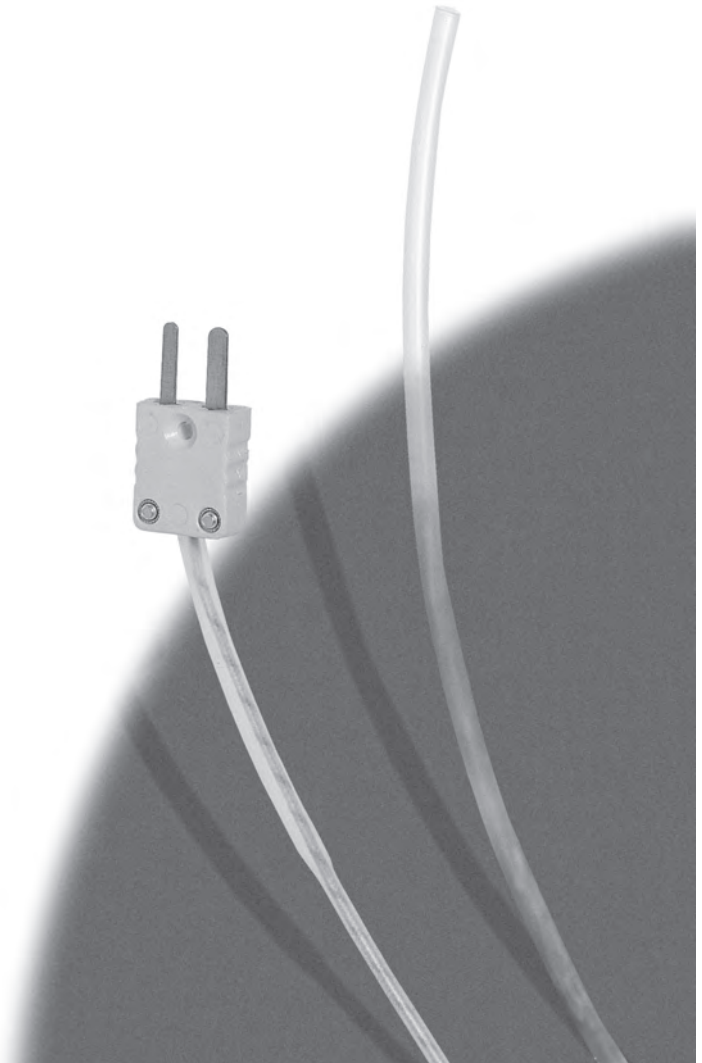
- 2:1 shrink ratio
- Highly flame retardant
- High withstand to abrasion and cut-through
- Excellent chemical and solvent resistance
- Semi-rigid
- Continuous operating temperature: -55°C to 175°C
- Shrink temperature: 175°C

STANDARDS

- UL 224 VW-1
- CSA C22.2 No. 198.1
- SAE- AMS- DTL- 23053/8
- DEF STAN 59-97 Issue 3 Type 3a
- AMS 3632

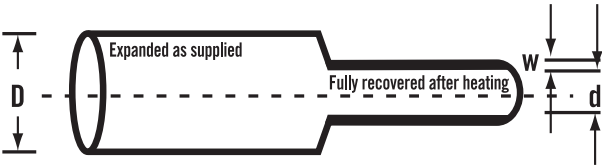
TYPICAL APPLICATIONS

- Strain relief and insulation of high temperature wires
- Protects against aggressive fluids and high temperatures



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W		CUT	
	MM	IN	MM	IN	MM	IN	M	IN
0047	1.2	3/64	0.6	3/128	0.24	0.009	1.2	48
0062	1.6	1/16	0.8	1/32	0.24	0.009	1.2	48
0094	2.4	3/32	1.2	3/64	0.24	0.009	1.2	48
0125	3.2	1/8	1.6	1/16	0.24	0.009	1.2	48
0187	4.8	3/16	2.4	3/32	0.24	0.009	1.2	48
0250	6.4	1/4	3.2	1/8	0.30	0.012	1.2	48
0375	9.5	3/8	4.8	3/16	0.30	0.012	1.2	48
0500	12.7	1/2	6.4	1/4	0.30	0.012	1.2	48
0750	19.0	3/4	9.5	3/8	0.40	0.016	1.2	48
1000	25.4	1	12.7	1/2	0.50	0.020	1.2	48



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK), Clear (natural)
 - Printing: Printed or Unprinted
 - Lengths: 48 in (1.2 m) cut lengths
- Please specify the product name, order number and options you require
- Order Example: DERAY[®] KY 175, 0125, black, unprinted, 4 ft lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

DERAY[®] KYF 190

INSULATE
SEAL
PROTECT

2:1
SHRINK RATIO



THIN WALL MODIFIED CROSS-LINKED FLUOROPOLYMER

Flexible, high temperature PVDF thin wall heat shrink tubing with extreme chemical resistance ideal for protection of components in a wide range of severe temperature and chemical environments

FEATURES AND BENEFITS

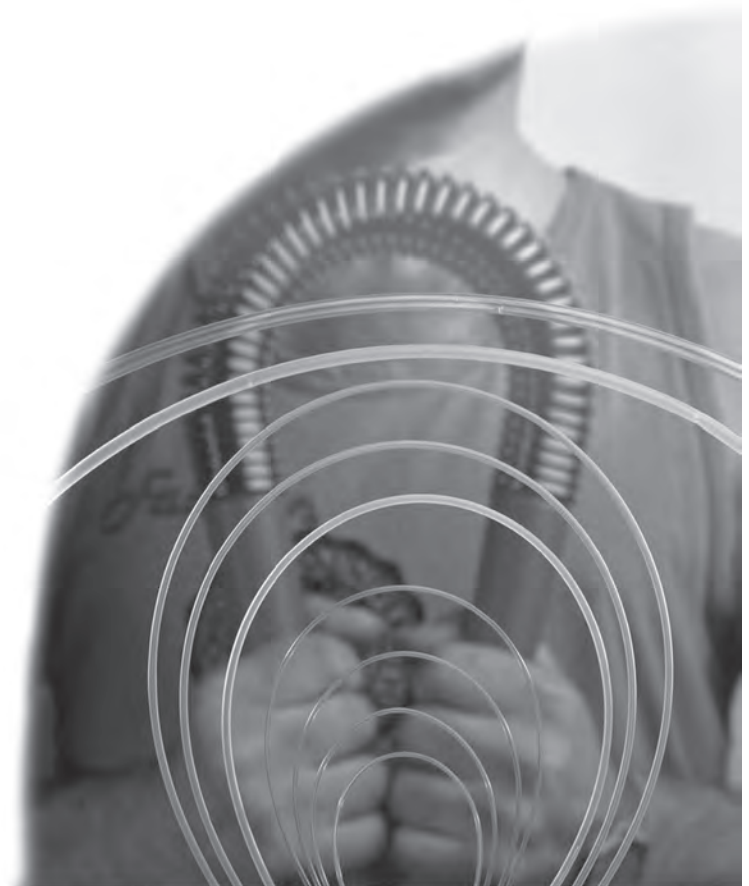
- 2:1 shrink ratio
- Flexible
- Highly flame retardant
- High temperature resistance
- Excellent chemical and solvent resistance
- Continuous operating temperature: -55°C to 190°C
- Shrink temperature: 175°C

STANDARDS

- UL 224 VW-1
- CSA C22.2 No. 198.1
- SAE-AMS-DTL-23053/18 Class 2

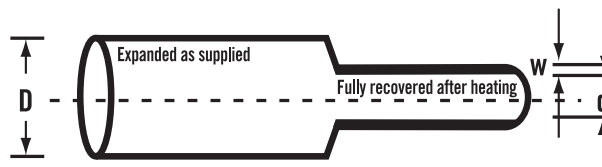
TYPICAL APPLICATIONS

- Protective see through covering for high temperature and aggressive chemical applications



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT
0047	1.2	3/64	0.6	0.023	0.24	0.009	300	984
063	1.6	1/16	0.8	1/32	0.24	0.009	300	984
0094	2.4	3/32	1.2	3/64	0.24	0.009	300	984
0125	3.2	1/8	1.6	1/16	0.24	0.009	300	984
0187	4.8	3/16	2.4	3/32	0.24	0.009	300	984
0250	6.4	1/4	3.2	1/8	0.30	0.012	300	984
0375	9.5	3/8	4.8	3/16	0.30	0.012	150	492
0500	12.7	1/2	6.4	1/4	0.30	0.012	100	328



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK), Clear (natural)
 - Printing: Printed or Unprinted
- Please specify the product name, order number and options you require
- Order Example: DERAY[®] KYF 190, 0047, black, unprinted, 984 ft lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

DERAY® V25

2:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

DIESEL RESISTANT FLEXIBLE ELASTOMERIC TUBING

Diesel resistant elastomeric heat shrink tubing suited for protecting cables, wire harnesses and brake lines in transportation and military applications where resistance to diesel, oil, hydraulic fluids and other chemicals is critical

FEATURES AND BENEFITS

- 2:1 shrink ratio
- Long term resistance to diesel, hydraulic fluids and chemicals
- Flexible
- Flame retardant
- High abrasion and cut resistance
- Continuous operating temperature: -75°C to 150°C
- Shrink temperature: 130°C

STANDARDS

- SAE-AMS-DTL-23053/16

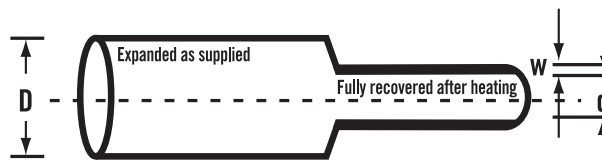
TYPICAL APPLICATIONS

- Protective covering for military cables and harnesses



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT
0125	3.2	1/8	1.6	1/16	0.80	0.031	50	164
0187	4.8	3/16	2.4	3/32	0.90	0.035	50	164
0250	6.4	1/4	3.2	1/8	1.00	0.039	50	164
0375	9.5	3/8	4.8	3/16	1.10	0.043	50	164
0500	12.7	1/2	6.4	1/4	1.30	0.051	30	98
0750	19.0	3/4	9.5	3/8	1.50	0.059	30	98
1000	25.4	1	12.7	1/2	1.90	0.075	30	98
1500	38.0	1½	19.0	3/4	2.50	0.098	15	49
2000	51.0	2	25.4	1	3.10	0.122	15	49



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK)
 - Printing: Printed or Unprinted
- Please specify the product name, order number and options you require
- Order Example: DERAY[®] V25, 0125, black, unprinted 984 ft lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

DERAY[®] VT 220

2:1
SHRINK RATIO



INSULATE
SEAL
PROTECT

THIN WALL FLUOROELASTOMER TUBING

Thin wall fluoroelastomer heat shrink tubing suitable for use in electronic systems and components in automotive, military/aerospace and industrial applications requiring outstanding heat and fluid resistance

FEATURES AND BENEFITS

- 2:1 shrink ratio
- Highly abrasion resistant
- High withstand to corrosive fluids in extreme temperatures
- Flame retardant
- Very flexible
- Easily hot stamped
- Continuous operating temperature: -55°C to 220°C
- Shrink temperature: 175°C

STANDARDS

- MIL-R-46846 Type 3, Class 1
- SAE-AMS-DTL-23053/13
- DEF STAN 59-97 Issue 3, Code 4a

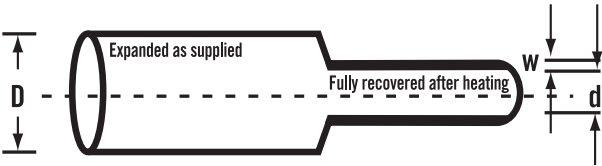
TYPICAL APPLICATIONS

- Bundling and strain relief of wire harnesses in high temperature applications



DIMENSIONS

ORDER NUMBER	EXPANDED		RECOVERED				LENGTHS	
	INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) d		WALL THICKNESS (NOM) W			
	MM	IN	MM	IN	MM	IN	M	FT
Standard Wall Thickness								
0125	3.2	0.125	1.6	0.063	0.8	0.031	50	164
0187	4.8	0.188	2.4	0.094	0.9	0.035	50	164
0250	6.4	0.25	3.2	0.126	0.9	0.035	50	164
0375	9.5	0.375	4.8	0.189	0.9	0.035	50	164
0500	12.7	0.5	6.4	0.252	0.9	0.035	30	98
0750	19.0	0.75	9.5	0.374	1.1	0.042	30	98
1000	25.4	1	12.7	0.500	1.2	0.049	30	98
1500	38	1.5	19.0	0.748	1.4	0.055	15	49
2000	52	2	25.4	1.000	1.6	0.065	15	49



ORDERING

- Select a dimension which will shrink snugly over the component to be covered. If recovery is restricted the resultant wall thickness will be less than specified.
- Select options:
 - Color: Black (BK)
 - Printing: Printed or Unprinted
- Please specify the product name, order number and options you require
- Order Example: DERAY® VT220, 0125, black, unprinted 164 ft lengths

Please contact your Customer Service Representative for information on custom colors, sizes, lengths and material data sheet.

PRODUCT CROSS REFERENCE CHART

INSULATE
SEAL
PROTECT

	DSG-CANUSA	TYCO	SUMITOMO	ALPHA	3M	LG
THIN WALL	CHM 140	RT-3, CRN	B8, D	FIT295	SR350	GSHS-1635S
	CPX 100	RNF-100	B2, A2	FIT221	FP301(1)	GSHS-1635F
	CPX 201	DCPT	B2(Y/G)	FIT260	GYS	GSHS-1635Y/G
	CPX 300	RNF-3000	B2(3X), A2(3X)	FIT321V	SFTW-203	GSHS-3635
	CPX 876	VERSAFIT	B2(Z), F2	FIT221V	FP-301VW	GSHS-1625LT
	CZM 200	ZHTM				
	CZT 200	ZH-100	NH			
	DERAY® ITW	VERSAFIT V4	F3(Z), F32			GSHS-1625T
	DERAY® LSB	LSTT				
DUAL WALL	CPA 100	TAT, DWP-125	O2B2	FIT321	EPS200/300	2690W, 1625W
	CPA 300	ATUM3:1, DWP-125	W3B2	FIT321	EPS300	GSHS-3635W
	DERAY® HXKT	SCL	W5O2	FIT306	MW	GSHS-3625WS
	DERAY® IHKT	ATUM4:1	W3B2(4X)		EPS400	
	DERAY® Splicement	ES-2000	SA2		EPS400, SMS	
	CDR	SCT, ES-2000				
	CFRA	FL2500				
	DERAY® ColdMelt	LMX				
	DERAY® DuoMelt	Rayblock				
	DERAY® PressMelt	Rayblock				
	DERAY® SpliceMelt Caps	ES/PD Caps				
	CDR Caps	ES-HW Caps ES/PD Caps				

PRODUCT CROSS REFERENCE CHART

	DSG-CANUSA	TYCO	SUMITOMO	ALPHA	3M	LG
MEDIUM/HEAVY WALL	CFHR	HRSR, HRHF		FIT621		
	CFM	MWTM, SST-M			IMCSN	LG-PMWT
	CFW	WCSM, SST, RHW		FIT700	ITCSN	LG-PHWT
	FCFW	BSTSFR, SSTFR, FCSM			HDT, ITCSE	
	QuickWrap					
	CFTV	TCS2			CCT	LG-CATV
	CCAP-RL	SSC,ESC		FIT Cap	ICEC	
	CCAP-FR/RL	SSC-FR			SKE	
	CCB	CBR			HDBB	
	CRDW	CRSM			HDCW	
	CRLS			FIT Wrap		
	CBTM	BPTM			BBI	
	CBTH	BBIT			BBI	LG-BBHV
	CSS				8420, 8450	
COMMUNICATIONS	CFSP	SMOUV	FSP-1			
	CFTV QuickWrap					
	CTB-15					
	Drop Tubing					
	Gel Drop Splice Enclosure	CERTI SEAL				
NON POLYOLEFIN	CNP 200 Neoprene	NT	R10	FIT600	NST	LG-CRFR
	CTFE 250	TFE	TPE CP			
	CVN 105			FIT105		
	DERAY® KY 175	RW-175	K	FIT350	Kynar	GSHS-1675
	DERAY® KYF 190	RT-375	K2			
	DERAY® V25	DR25	R120			LG-DRET
	DERAY® VT 220	RW200, Viton®	FE3	FIT650	Viton	GSHS-1650F

DSG-CANUSA

THERE'S NO END TO WHAT WE COVER

Using materials science expertise, DSG-Canusa provides heat shrink and cold applied solutions for electrical insulation and mechanical protection for the Electrical/Utility, Communications, Automotive and Electronic markets. Our continued investment in research and development continues to yield new products to meet industry requirements. Moreover, an aptitude and readiness to engineer unique solutions to suit customer applications has earned us a reputation of excellence in customer satisfaction. DSG-Canusa is a market leader with manufacturing and support facilities throughout the globe.

DSG-CANUSA CAN SATISFY THE MOST DEMANDING CUSTOMER NEEDS THROUGH:

- Commitment to a formal Customer Satisfaction Program
- A global sales and service network
- Significant expenditures in product development
- Solutions oriented Applications Engineering
- TS 16949/ISO 9000 system implementation
- Fully stocked product line
- Vendor managed inventory/EDI
- Web site support including technical specifications & new product information

MISSION STATEMENT

TO BE A GLOBAL LEADER IN HEAT SHRINKABLE TUBING AND CABLE ACCESSORIES,
THROUGH EXCELLENCE IN SERVICE, INNOVATION AND VALUE.

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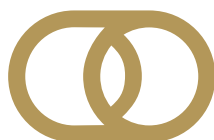
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