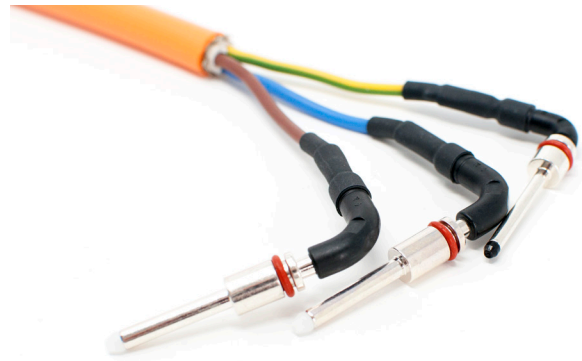


Thin Wall Crosslinked Polyolefin

Multi-purpose, flame retardant, flexible heat shrink tubing.



Features and Benefits

- Self-extinguishing (colors only)
- Flexible
- Suitable for various applications
- Good resistance to common fluids and solvents
- High dielectric strength
- Shrink ratio: 2:1
- Continuous operating temperature: -55°C to 135°C
- Shrink temperature: 110°C min.

Standards

- UL 224 125C ATF - UL file # E107857 (colors only)
- CSA 22.2 No 198.1 125C - CSA file # 065789_0_000 (colors only)
- Approved to major automotive OEM specifications

Typical Applications

- Abrasion and mechanical protection
- Cable insulation, marking and bundling of electrical or mechanical components
- Strain relief
- Corrosion protection

2:1

Shrink ratio

-55°C - 135°C (-67°F to 275°F)

Continuous
operating
temperature

Markets:

Automotive, Industrial

Standards:



ORDER NUMBER	EXPANDED	RECOVERED		DELIVERY UNITS		
	INTERNAL DIAMETER (MIN) D	INTERNAL DIAMETER (MAX) D	TOTAL WALL THICKNESS (NOM) W	SPOOL*	MINI-SPOOL	LENGTHS
	mm (in)	mm (in)	mm (in)	m (ft)	m (ft)	1.22 m (48 in)
0047	1.2 (3/64)	0.6 (0.024)	0.40 (0.016)	300 (984)	150 (492)	25
0063	1.6 (1/16)	0.8 (0.031)	0.40 (0.016)	300 (984)	150 (492)	25
0094	2.4 (3/32)	1.2 (0.047)	0.50 (0.020)	300 (984)	150 (492)	25
0125	3.2 (1/8)	1.6 (0.063)	0.50 (0.020)	300 (984)	150 (492)	25
0187	4.8 (3/16)	2.4 (0.094)	0.50 (0.020)	300 (984)	75 (246)	25
0250	6.4 (1/4)	3.2 (0.126)	0.60 (0.024)	300 (984)	75 (246)	25
0375	9.5 (3/8)	4.8 (0.189)	0.60 (0.024)	150 (492)	75 (246)	25
0500	12.7 (1/2)	6.4 (0.252)	0.60 (0.024)	100 (328)	50 (164)	25
0625	16.0 (5/8)	8.0 (0.315)	0.60 (0.024)	100 (328)	50 (164)	10
0750	19.0 (3/4)	9.5 (0.374)	0.80 (0.031)	50 (164)	30 (98)	10
1000	25.4 (1)	12.7 (0.500)	0.90 (0.035)	50 (164)	30 (98)	10
1250	31.8 (1 ¼)	15.9 (0.626)	0.90 (0.035)	50 (164)	30 (98)	-
1500	38.0 (1 ½)	19.0 (0.748)	1.00 (0.039)	50 (164)	30 (98)	-
2000	51.0 (2)	25.4 (1.000)	1.00 (0.043)	50 (164)	30 (98)	-
3000	76.0 (3)	38.0 (1.496)	1.30 (0.051)	25 (82)	15 (49)	-
4000	101.6 (4)	50.8 (2.000)	2.00 (0.055)	25 (82)	15 (49)	-

Clear items not UL or CSA listed.

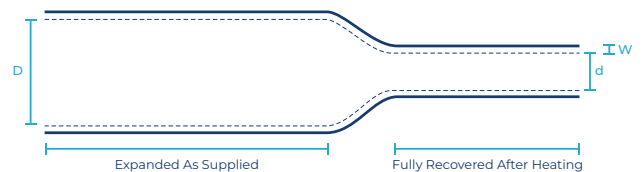
*Delivery unit spool only available for black items

Ordering

Select a dimension which will shrink snugly over the application 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), brown (BN), grey (GY)
- Please specify the product name, order number and options you require:
 - Example: DERAY®-H, 0250 or 1/4 in, black

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



We advise that customers should separately evaluate the suitability of our products for their particular application. Our responsibilities are only those listed in our Standard Terms and Conditions of Sale for these products. Please ask for the latest version of this data sheet. Subject to modification without prior notice.

For further information, please contact:

Americas: 800 422 6872
Canada: 800 845 6808

Asia Pacific: +86 512 82280099
Europe: +49 2226 9047 355

DERAY®-H colored

Technical data

PROPERTY	CURRENT VALUES	TEST METHODS
MATERIAL		
Material	PE, modified; free of lead, silicone and cadmium	n/a
Surface	matt	n/a
Specific gravity	1.3 g/cm ³ max.	ASTM-D 792, A-I
Shrink ratio	2:1	n/a
Longitudinal shrinkage	-10% max.	ASTM-D 2671
MECHANICAL		
Tensile strength	15 MPa	IEC 60684-2
Elongation	450%	IEC 60684-2
Secant modulus	175 MPa max.	ASTM-D 882
THERMAL		
Tensile strength after thermal ageing (168 h at 158°C)	12 MPa	UL 224
Elongation after thermal ageing (168 h at 158°C)	300%	UL 224
Tensile strength after thermal shock (4 h at 200°C)	13 MPa	IEC 811-1-2
Elongation after thermal shock (4 h at 200°C)	400%	IEC 811-1-2
Cold bend test	does not break at -55°C	ASTM-D 2671 Meth. C
Combustion behaviour	flame retardant	UL 224
Shrink temperature	110°C min.	n/a
Storage temperature	50°C max.	n/a
Continuous operating temperature	-55°C to 135°C	IEC 216
CHEMICAL		
Corrosive action	non-corrosive	ASTM-D 2671 Meth. A
Compatibility with copper	non-corrosive	ASTM-D 2671 Meth. B
Resistance against chemicals	good	n/a
Water absorption	0.15% max.	VDE 0473
ELECTRICAL		
Dielectric strength	24 kV/mm	VDE 0303 Part 2
Spec. volume resistivity	10 ¹⁵ Ω x cm	VDE 0303 Part 3
Insulation class	E	VDE 0530

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DERAY®-H transparent

Technical data

PROPERTY	CURRENT VALUES	TEST METHODS
MATERIAL		
Material	PE, modified, free of lead, silicone, halogen and cadmium	n/a
Surface	semi glossy	n/a
Specific gravity	1.0 g/cm ³ max.	ASTM-D 792, A-I
Shrink ratio	2:1	n/a
Longitudinal shrinkage	-6% max.	ASTM-D 2671
MECHANICAL		
Tensile strength	19 MPa	IEC 60684-2
Elongation	530%	IEC 60684-2
Secant modulus	175 MPa max.	ASTM-D 882
THERMAL		
Tensile strength after thermal ageing (168 h at 158°C)	18 MPa	UL 224
Elongation after thermal ageing (168 h at 158°C)	490%	UL 224
Tensile strength after thermal shock (4 h at 200°C)	18 MPa	IEC 811-1-2
Elongation after thermal shock (4 h at 200°C)	500%	IEC 811-1-2
Cold bend test	does not break at -55°C	ASTM-D 2671 Meth. C
Combustion behaviour	passed	FMVSS 302
Shrink temperature	110°C min.	n/a
Storage temperature	40°C max.	n/a
Continuous operating temperature	-55°C to 135°C	IEC 216
CHEMICAL		
Corrosive action	non-corrosive	ASTM-D 2671 Meth. A
Compatibility with copper	non-corrosive	ASTM-D 2671 Meth. B
Resistance against chemicals	good	n/a
Water absorption	0.3% max.	VDE 0473
ELECTRICAL		
Dielectric strength	26 kV/mm	VDE 0303 Part 2
Spec. volume resistivity	10 ¹⁵ Ω x cm	VDE 0303 Part 3

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