

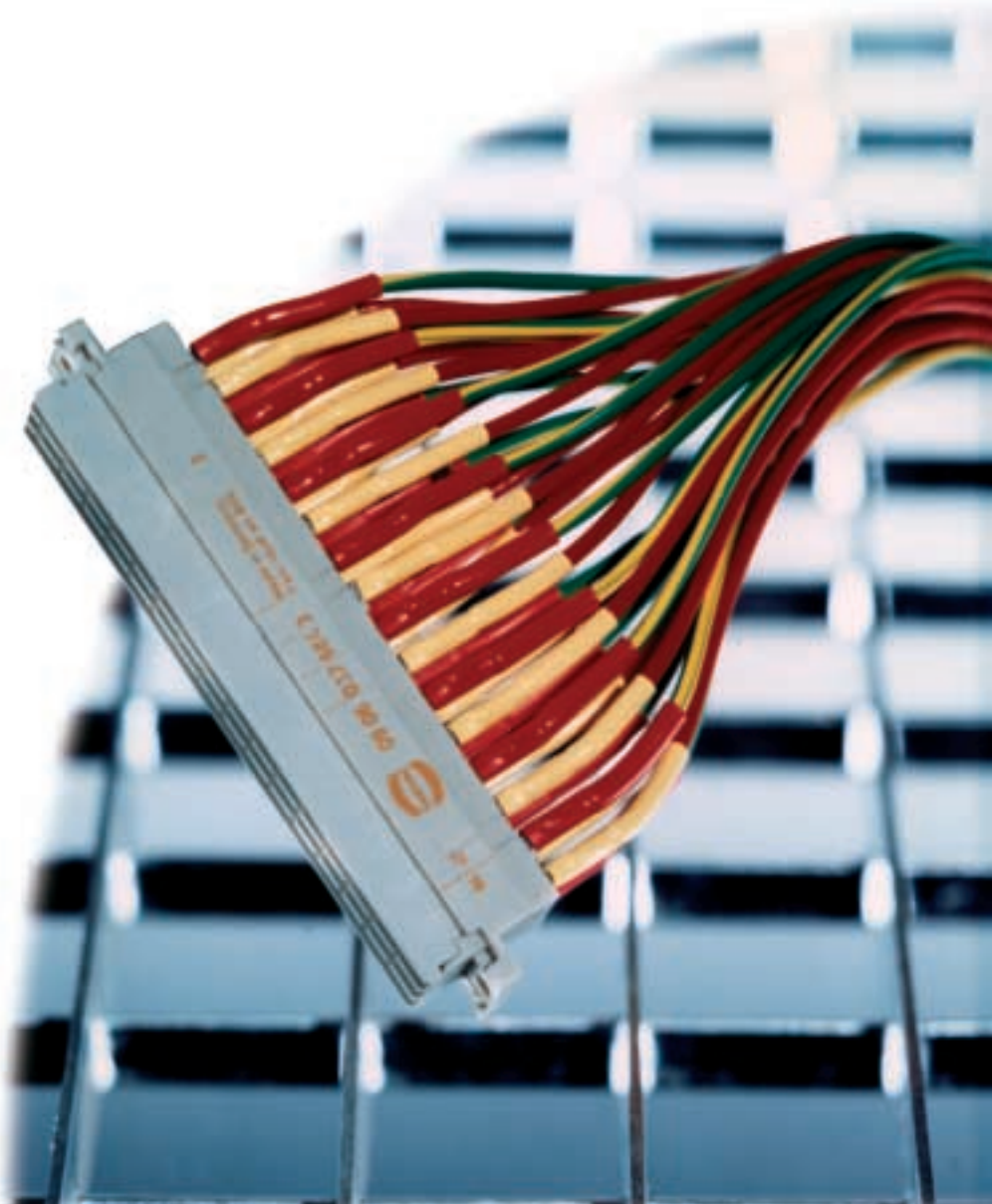
DERAY®-H

Flame retardant, multi-purpose
heat shrink tubing



Features

- Flexible
- Suitable for various applications
- Continuous Operating
Temperature: -55°C to 135°C
- Shrink Temperature: 110°C



Dimensions

EXPANDED		RECOVERED		DELIVERY UNITS				
INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) D	WALL THICKNESS (NOM) w	Black		Black & Coloured		Lengths 1.22 m pcs.
mm	IN	mm	mm	Spool Length m	Style*	Spool Length m	Style*	
1,2	3/64	0,6	0,40	300	o	150	o	25
1,6	1/16	0,8	0,40	300	o	150	o	25
2,4	3/32	1,2	0,50	300	o	150	o	25
3,2	1/8	1,6	0,50	300	o	150	o	25
4,8	3/16	2,4	0,50	300	o	75	o	25
6,4	1/4	3,2	0,60	300	o	75	o	10
9,5	3/8	4,8	0,60	150	o	75	o**	10
12,7	1/2	6,4	0,60	100	o	50	—	10
16,0	5/8	8,0	0,60	100	—	—	—	10
19,0	3/4	9,5	0,80	50	—	30	—	10
25,4	1	12,7	0,90	50	—	30	—	10
31,8	1 1/4	15,9	0,90	50	—	30	—	—
38,0	1 1/2	19,0	1,00	50	—	30	—	—
50,8	2	25,4	1,10	50	—	30	—	—

* o = airfilled or oval ** black only, other colours flattened — = flattened

Technical Data

Physical

Property	Test Method	Typical Performance coloured	Typical Performance clear
Tensile Strength	IEC 60684-2	15 MPa	19MPa
Elongation	IEC 60684-2	450%	530%
Longitudinal Change	ASTM-D 2671	± 10% max.	± 10% max.
Secant Modulus	ASTM-D 882	175 MPa max.	175 MPa max.
Specific Gravity	ASTM-D 792, A-I	1,25 g/cm ³	1,00 g/cm ³
Elongation after Heat Aging (168 hrs at 158°C)	UL 224	300%	490%
Tensile Strength after Heat Aging (168 hrs at 158°C)	UL 224	12 Mpa	18 MPa
Elongation after Heat Shock (4 hrs at 200°C)	IEC 811-1-2	400%	500%
Tensile Strength after Heat Shock (4 hrs at 200°C)	IEC 811-1-2	13 MPa	18 MPa
Low Temperature Flexibility	ASTM-D 2671 Meth. C	does not break at -55°C	does not break at -55°C
Flammability	UL 224 (coloured) FMVSS 302 (clear)	flame retardant	passed

Standard Colours							Special Colours
black	clear*	red	yellow	blue	white	green	On Request

*clear not UL or CSA listed

Electrical

Property	Test Method	Typical Performance coloured	Typical Performance clear
Dielectric Strength	VDE 0303 Part 2	24 kV/mm	26 kV/mm
Volume Resistivity	VDE 0303 Part 3	10 ¹⁵ Ω x cm	10 ¹⁵ Ω x cm

Chemical

Property	Test Method	Typical Performance coloured	Typical Performance clear
Corrosive Action	ASTM-D 2671 Meth. A	non-corrosive	non-corrosive
Copper Compatibility	ASTM-D 2671 Meth. B	non-corrosive	non-corrosive
Chemical Resistance		good	good
Water Absorption	VDE 0472	0,15%	0,30%

Printability	Hot stamp	Ink jet	Offset
	very good	good	good

Ordering: **Specify the product name** plus each of the following options: 1) Size 2) Colour 3) Total Quantity + Delivery Unit 4) Printing Options
For example: DERAY®-H 1/4" black, 2.100 mtr., 300m-spool, unprinted