

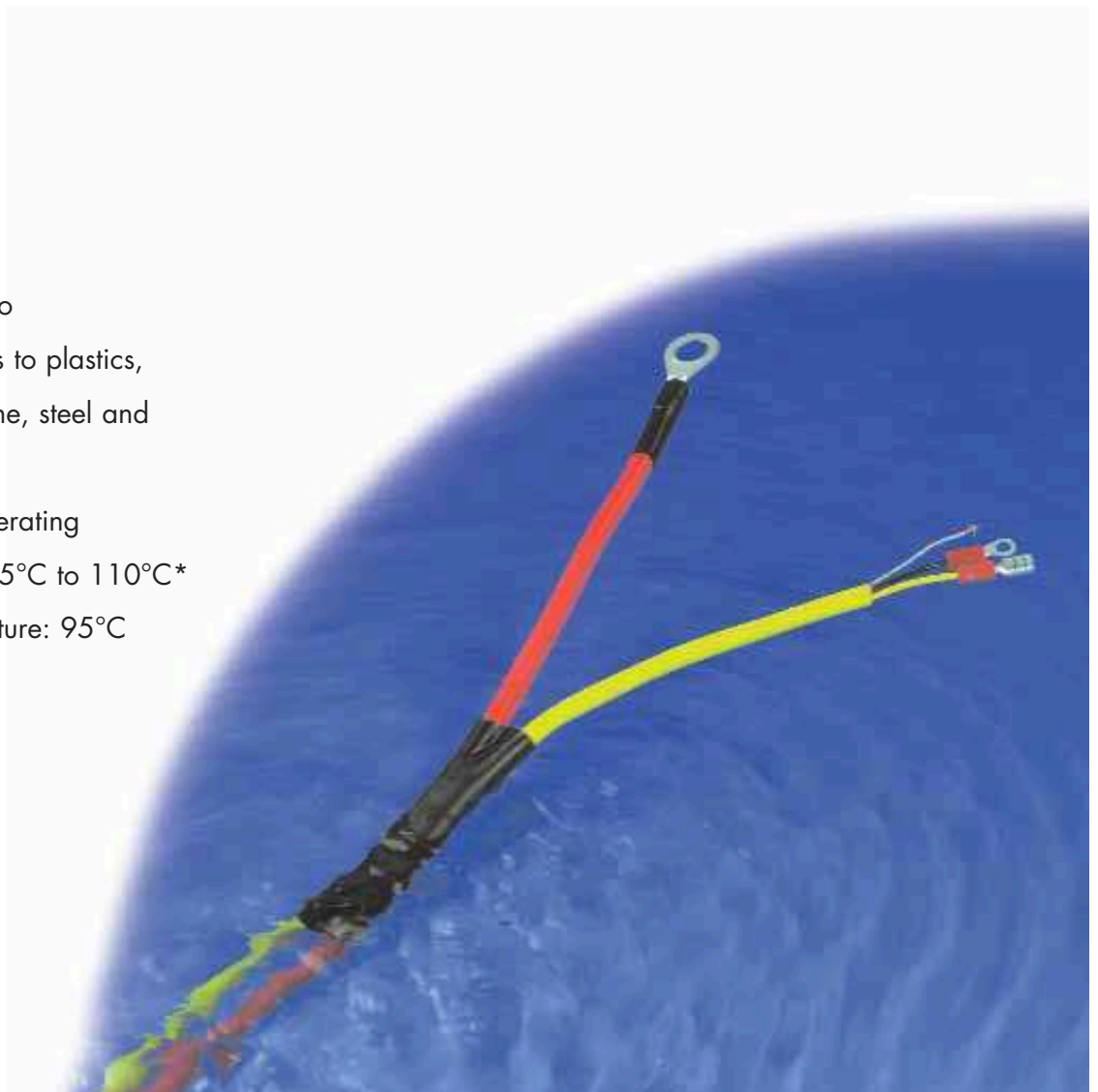
DERAY[®]-IAKT

Adhesive-lined heat shrink tubing
ideal for effective moisture-resistant
insulation

Features

- Flexible
- High shrink ratio
- Adhesive bonds to plastics, rubber, neoprene, steel and polyethylene
- Continuous Operating Temperature: -55°C to 110°C*
- Shrink Temperature: 95°C

*Outer Jacket



Dual Wall



3:1 & 4:1
Shrink Ratio

DERAY®-IAKT 3:1 & 4:1

Dimensions 3:1

EXPANDED		RECOVERED			DELIVERY UNITS				
INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) D	WALL THICKNESS OVERALL (NOM) w	WALL THICKNESS ADHESIVE (NOM) w	Black		Black & Clear		Lengths 1.22 m
mm	IN	mm	mm	mm	Spool Length	Style*	Spool Length	Style*	
3,0	-	1,0	1,00	0,40	300	o	150	o	25
4,5	-	1,5	1,10	0,50	300	o	75	o	25
6,0	-	2,0	1,20	0,50	300	o	75	o	10
9,0	-	3,0	1,40	0,50	150	o	75	o	10
12,0	-	4,0	1,70	0,60	100	o	50	o	10
19,0	-	6,0	2,10	0,60	50	o	30	o	10
24,0	-	8,0	2,40	0,70	50	o	30	o	10
40,0	-	13,0	2,40	0,70	30	o	-	-	10

Dimensions 4:1

EXPANDED		RECOVERED			DELIVERY UNITS				
INTERNAL DIAMETER (MIN) D		INTERNAL DIAMETER (MAX) D	WALL THICKNESS OVERALL (NOM) w	WALL THICKNESS ADHESIVE (NOM) w	Black		Black & Clear		Lengths 1.22 m
mm	IN	mm	mm	mm	Spool Length	Style*	Spool Length	Style*	
4,0	-	1,0	1,00	0,40	300	o	150	o	25
8,0	-	2,0	1,20	0,50	150	o	75	o	10
12,0	-	3,0	1,40	0,50	100	o	50	o	10
16,0	-	4,0	1,70	0,60	50	o	-	-	10
24,0	-	6,0	2,10	0,60	50	o	30	o	10
32,0	-	8,0	2,40	0,70	50	o	30	o	10
52,0	-	13,0	2,40	0,70	30	o	-	-	10

* o = airfilled or oval -- = flattened

Technical Data

Physical

Property	Test Method	Typical Performance coloured	Typical Performance clear
Tensile Strength	IEC 60684-2	15,0 MPa	17,0 MPa
Elongation	IEC 60684-2	400%	450%
Longitudinal Change 3:1	ASTM-D 2671	- 15% max.	- 15% max.
Longitudinal Change 4:1	ASTM-D 2671	- 18% max.	- 18% max.
Specific Gravity	ASTM-D 792, A1	1,25 g/cm ³	1,00 g/cm ³
Elongation after Heat Aging (168 hrs at 150°C)	IEC 811-1-2	320%	360%
Tensile Strength after Heat Aging (168 hrs at 150°C)	IEC 811-1-2	14 MPa	15 MPa
Elongation after Heat Shock (4 hrs at 200°C)	IEC 811-1-2	360%	380%
Tensile Strength after Heat Shock (4 hrs at 200°C)	IEC 811-1-2	15 MPa	16 MPa
Low Temperature Flexibility	ASTM-D 2671 Meth. C	does not break at -55°C	does not break at -55°C
Flammability	ASTM-D 876 (coloured) FMVSS 302 (clear)	flame retardant jacket	passed

Standard Colours		Special Colours	
black		clear	
On Request			

Electrical

Property	Test Method	Typical Performance coloured	Typical Performance clear
Dielectric Strength	VDE 0303 Part 2	22 kV/mm	23 kV/mm
Volume Resistivity	VDE 0303 Part 3	10 ¹⁴ Ω x cm	10 ¹⁴ 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%	0,17%

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®-IAKT 3:1 12,0 mm black, 1.000 mtr., 100m-spool, unprinted