



## HRA3/HR3

Heavy Wall Tubing with/  
without Hot Melting Adhesive



### Features:

- Heavy wall adhesive lined crosslinked polyolefin
- Superior electrical & environmental insulation
- Excellent abrasion and impact resistance
- UV resistant
- Superior sealing property
- Operating temp.: -55°C to +125°C
- Min. full recovery temp.: 120°C

### Dimensions:

Size (mm)	As supplied (mm)		After recovered (mm)		Standard length
	D*(Min.)	d*(Max.)	w*(Min.)		
HRA3 9/3	9	3	1.8		1000-1500mm
HRA3 15/4	15	4	2.4		1000-1500mm
HRA3 22/6	22	6	2.7		1000-1500mm
HRA3 33/8	33	8	3.2		1000-1500mm
HRA3 40/12	40	12	4.1		1000-1500mm
HRA3 45/12	45	12	4.1		1000-1500mm
HRA3 55/16	55	16	4.1		1000-1500mm
HRA3 75/22	75	22	4.1		1000-1500mm
HRA3 85/25	85	25	4.3		1000-1500mm
HRA3 95/30	95	30	4.3		1000-1500mm
HRA3 105/30	105	30	4.3		1000-1500mm
HRA3 115/34	115	34	4.3		1000-1500mm
HRA3 130/36	130	36	4.3		1000-1500mm
HRA3 160/50	160	50	4.3		1000-1500mm
HRA3 180/50	180	50	4.3		1000-1500mm
HRA3 200/60	200	60	4.3		1000-1500mm
HRA3 235/65	235	65	4.5		1000-1500mm
HRA3 265/75	265	75	4.5		1000-1500mm
HRA3 300/85	300	85	4.5		1000-1500mm
HRA3 350/100	350	100	4.5		1000-1500mm

D\* = Inner diameter as supplied    d\* = Inner diameter after recovered    w\* = Wall thickness after fully recovered

HR3 is available with the same size of HRA3. From size 9/3 to 75/22 are 30m/spool. The other cut length of the tubing are available on request.

## Technical properties:

Property	Test Method	Typical Data
<b>Property of jacket</b>		
Tensile strength	ASTM D 2671	≥14 Mpa
Ultimate elongation	ASTM D 2671	≥400%
Heat aging		
Tensile strength	ASTM D 2671/150°C, 168 hrs.	>12 MPa
Ultimate elongation		>300%
Density	ASTM D 792	1.05g/cm <sup>3</sup>
Longitudinal shrinkage	UL 224	0 to -10%
Dielectric strength	IEC 243	≥18kV/mm
Volume resistance	IEC 93	≥10 <sup>13</sup> Ω.cm
Copper stability	ASTM D 2671	Pass
Water absorption	ISO 62/23°C, 14days	<0.15%
<b>Property of adhesive</b>		
Water absorption	ISO 62	<0.2%
Softening point	ASTM E28	85±5°C
Peel strength (PE)	DIN 30672	4 N/cm
Resistance to fungus and decay	ISO 846	Pass

## Ordering information:

### Standard colors:

Black

### Special colors:

N/A

### Packaging:

Standard packaging in 1m, 1.22m, 1.5m lengths.

Other: Other cut lengths are available, please contact our sales department.