

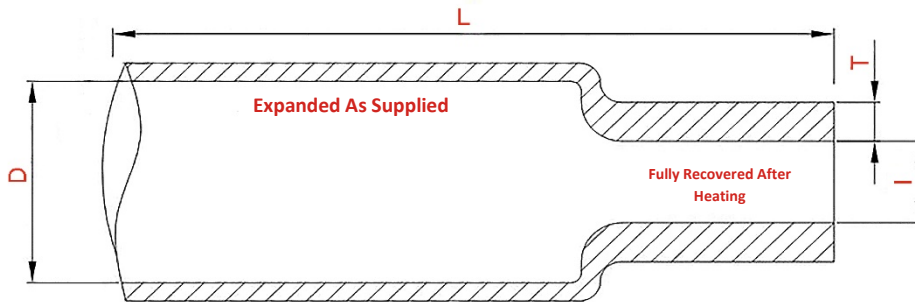
# Non Tracking Tube/Anti Tracking Tube - RART (Electrical Insulating Heat Shrink Tube)



REPL International Ltd UK/Hi-Power Correlation

## RART

REPL Heat Shrinkable Anti Tracking tubes (RART) are used to reconstruct the electrical cable by providing insulation and tracking resistance, as well as environmental protection against chemical pollution and UV rays for cable cores of plastic and paper insulated cables and terminations rated up to 36kV. These tubes are made from thermally stabilized, cross linked, non-tracking and weather resistant polymeric material and have a nominal shrink ratio of 3:1 and an unlimited shelf life when stored at normal warehouse temperatures.



\*Drawing depicts typical dimensions (Dimensions are all in mm)

D – Internal Diameter | l – Maximum Internal Diameter | L – Length as per requirement | T – Wall Thickness | E – As Supplied | S – After Free Recovery

### PRODUCT DIMENSIONS – RART Series

SIZE	D (mm)		T (mm)
	E	S	S
	Min	Max	± 0.2
RART 30/8	30	8	2.50
RART 30/10	30	10	3.00
RART 40/12	40	12	3.00
RART 45/15	45	15	3.00
RART 49/16	49	16	3.00
RART 55/18	55	18	3.00
RART 65/21	65	21	3.00
RART 75/26	75	26	3.00
RART 120/37	120	37	3.50

### MATERIAL SPECIFICATIONS

CHARACTERISTIC	VALUE	TEST METHOD
<b>Physical Properties</b>		
Specific Gravity	1.19 ± 0.2 g/cm <sup>3</sup>	ASTMD - 1505
Water Absorption	0.5% (max)	ASTM D – 570/ISO 62
Tensile Strength	≥12 N/sqmm (min)	ASTM D – 412 / ISO 37
Ultimate Elongation	500% (min)	ASTM D – 412 / ISO 37
Hardness	43 ± 3 Shore D	ASTM D - 2240
Longitudinal Change	±10%	ESI 09 - 13
Shrink Ratio	3 : 1 (Min)	TP / QA / 61
Torching	No Split	TP / QA / 7
<b>Thermal Tests</b>		
Shrink Temperature	120°C	IEC - 216
Heat shock (30 min 200° C)	No cracking / No flow	ESI 09-13
Heat Ageing ( 500 hrs 120° C)- Tensile Strength Ultimate Elongation	10 N/mm <sup>2</sup> (min) 310% (min)	ASTM D-412 / ISO-37
Low Temp. Flexibility (- 40° C)	No cracking	ASTM D-2671
Flammability	Flame Retardant	ASTM D – 2671 - B
<b>Electrical Properties</b>		
Dielectric Strength	20 kV/mm (min)	ASTM D-149 / IEC-243
Volume Resistivity	1x10 <sup>13</sup> Ohm-cm (max)	ASTM D – 257 / IEC 93
Dielectric Constant	3	ASTM D-150 / IEC-250
Tracking Resistance	No failure by tracking or erosion after 1 hr of 2.5kV 1 hr of 2.75kV 1 hr of 3.00kV 20 minutes of 3.25kV	ASTM D-2303
<b>Chemical Properties</b>		
Fungus Resistance	No Growth	ASTM G - 21
Chemical resistance immersion in following liquids NaOH (40%), H <sub>2</sub> SO <sub>4</sub> (3%), Toluene acetone for 24 hrs at room temperature	Good (no change in appearance )	ISO 175

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DATA SHEET

RART 19/01