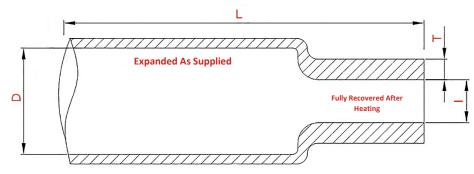
## Heat Shrinkable Dual Wall Tubes (Black/Red)

## RDWT

REPL Heat Shrinkable Dual Wall Tubes (RDWT) are a dual layer co-extruded tube with a red inner insulating layer and an outer black semi-conductive layer which is used in medium voltage plastic and paper insulated cable joints rated up to 36kV. The single tube provides both an insulating thickness and an insulation screen on the built-up insulation in the joint.

The tubes are made from thermally stabilized, cross linked, 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 | I – Maximum Internal Diameter | L – Length as per requirement | T – Wall Thickness | E – As Supplied | S – After Free Recovery

PRODUCT DIMENSIONS – RDWT Series							
	D		Т				
CODE	E	S	(± 20%)				
	Min	Max	Ι	S	Т		
RDWT 35/12 +	35	12	5.0	1.0	6.0		
RDWT 45/15 +	45	15	5.0	1.0	6.0		
RDWT 55/18+	55	18	5.0	1.0	6.0		
RDWT 65/25 +	65	25	5.5	1.0	6.5		
RDWT 90/30+	90	30	5.5	1.0	6.5		
RDWT 100/38+	100	38	5.5	1.0	6.5		
RDWT 120/45 +	120	45	6.0	1.0	7.0		
RDWT 140/50+	140	50	6.0	1.0	7.0		

+ Available in discrete lengths only.

I – Insulating

- S Semi-Conductive
- T Total Wall

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MATERIAL SPECIFICATIONS					
CHARACTERISTIC	VALUE	TEST METHOD			
Physical Properties					
Specific Gravity	1.19 ± 0.2	ASTMD - 1505			
Water Absorption	1% (max)	ASTM D – 570/ISO 62			
Tensile Strength	12 N/sqmm (min)	ASTM D – 412 / ISO 37			
Ultimate Elongation	400% (min)	ASTM D – 412 / ISO 37			
Hardness	45 ± 3 Shore D	ASTM D - 2240			
Longitudinal Change	± 10 %	ESI 09 - 13			
Shrink Ratio	3 : 1 (min)	TP/QA/61			
Thermal Ageing Tests (120°C for 500 hours)					
Ultimate Elongation	300% (min)	ASTM D – 412 / ISO 37			
Tensile Strength	10 N/sqmm (min)	ASTM D – 412 / ISO 37			
Low Temp. Flexibility (-40%)	No Cracking	ASTM D -2671			
Thermal Tests					
Heat Shock (30min, 200°C)	No Cracking / No Flow	ESI 09-13			
Shrink Temperature	120°C (min) IEC - 216				
Electrical Properties					
Dielectric Strength	18 kV/mm (min)	ASTM D – 149 /IEC 243			
Dielectric Constant	5 (max)	ASTM D – 150 / IEC 250			
Volume Resistivity (on insulating layer)	1x10 <sup>13</sup> Ohm-cm (min) ASTM D – 257 / IE				
Volume Resistivity (semi conductive layer)	1x10 <sup>3</sup> Ohm-cm (max)	ASTM D – 257 / IEC 93			
Chemical Properties					
Fungus Resistance	1 (max)	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			

