Semi Conductive Black Tubes - (Used in composition with insulating tubes in nesting form) - RCBT (Electrical Heat Shrink Tube)

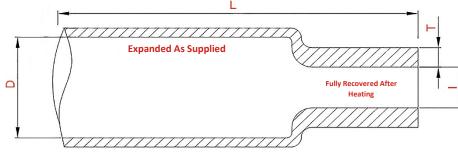


RCBT

REPL Heat Shrinkable Semi-Conductive Tubes (RCBT) are used to reconstruct the electrical cable by providing insulation in medium voltage as integral part of cable joint along with insulating tubes in complementary combination rated up to 36kV and to rebuild the semi- conductive layer on power cables.

These tubes are made from thermally stabilized, cross linked, semi-conductive 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 – RCBT Series				
	D (mm)		T (mm)	
CODE	E	S	S	
	Min	Max	± 0.2	
RCBT 35/12 *	35	12	2.80	
RCBT 45/15 *	45	15	2.80	
RCBT 80/22 +	80	22	3.00	
RCBT 110/35 +	110	35	3.50	

+ Available in discrete lengths only

*Available in 25 meter spools or discrete lengths

- Custom sizes are available on request with minimum volume requirements

MATERIAL SPECIFICATIONS				
CHARACTERISTIC	VALUE	TEST METHOD		
Physical Properties				
Specific Gravity	1.19 ± 0.2 g/cm ³	ASTMD - 1505		
Water Absorption	0.5% (max)	ASTM D – 570		
Tensile Strength	≥14 N/sqmm (min)	ASTM D – 412 / ISO 37		
Ultimate Elongation	500% (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		
Torching	No Split	TP / QA / 7		
Thermal Tests				
Shrink Temperature	120 ^o 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	12 N/mm² (min) 400% (min)	ASTM D-412 / ISO-37		
Low Temp. Flexibility (- 40° C)	No cracking	ASTM D-2671		
Electrical Properties				
Volume Resistivity	1x10 ³ 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 ₂ SO ₄ (3%), Toluene acetone for 24 hrs at room temperature	Good (no change in appearance)	ISO 175		

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