Reinforced Wraparound Repair Sleeve – RTSFA
(Tube-Formation with Folding)
Electrical Insulating Heat Shrink Sleeve

REPL International Ltd UK/Hi-Power Correlation

DATASHEET

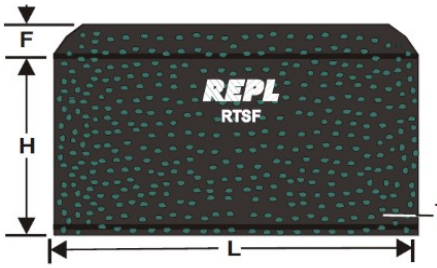
RTSF/RTSFA

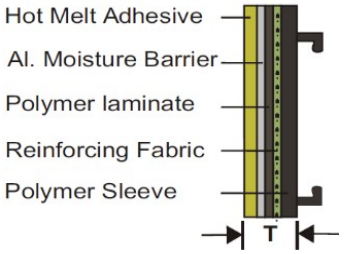
REPL's Reinforced Heat Shrink Splice Closure System (RTSFA) are used to reconstruct the electrical cable by providing insulation. These tubes insulate from leakage of electrical charge to the outer environment. Replacing the cable outer sheath as integral part of electrical joints. Excellent split resistance and mechanical protection for cable joints.

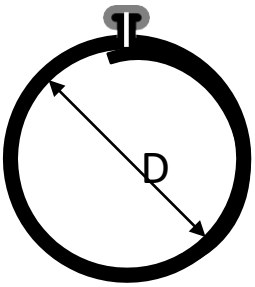
The RTSF sleeves are made from a composite laminate material consisting of reinforcing glass fibres, polyethylene layers, an aluminium layer for moisture vapour transmission and hot melt adhesive on the inner surface.

The sleeves are supplied in wraparound form along with stainless steel channels to make the sleeves cylindrical prior to shrinking. The outer surface of the sleeves are coated with temperature indicating paint which changes colour to indicate optimum shrinking.

On application of heat, the inner adhesive layer melts and bonds to the cable surface to provide a waterproof seal.







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

L – Length as per requirement and Maximum 1500mm | T – Total Expanded Thickness of Sleeve with Adhesive

PRODUCT DIMENSIONS – RTSF Series

CODE	H	F	T
	mm	mm (min)	mm (min)
RTSF 42/08	180 ± 10	12	1.5
RTSF 75/15	275 ± 10	12	1.5
RTSF 92/25	330 ± 10	20	1.5
RTSF 122/30	430 ± 15	20	1.5
RTSF 160/42	560 ± 15	20	1.5
RTSF 200/50	685 ± 15	20	1.5

APPLICATION RANGE

CODE	DIAMETER (mm)
RTSF 42/08	12 – 25
RTSF 75/15	20 – 50
RTSF 92/25	30 – 60
RTSF 122/30	40 – 80
RTSF 160/42	60 – 100
RTSF 200/50	70 – 140

MATERIAL SPECIFICATIONS

CHARACTERISTIC	VALUE	TEST METHOD
Physical Properties		
Bursting Strength	1800 N (min)	ISO 3303
Corrosion Effect	No Cracks	ASTM D - 2671
Water Absorption	0.1% (max)	ASTM D – 570
Torchability	No Split	TE 201 AOL
ESCR 48 Hours at 50^{0}C	No Cracks	ASTM D - 1693
Thermal Ageing Tests (150^{0}C for 168hrs)		
Bursting Strength	12 kV/mm	ISO 188
Electrical Properties		
Dielectric Strength	12 kV/mm (min)	ASTM D - 149
Chemical Properties		
Chemical resistance immersion in following liquids 0.1 N sol. Of Na2SO4, Na2CI, H2SO4, NaOH fuel oil for 24hrs.	1500N (min)	ISO - 175
Tensile Strength	15 N/sqmm (min)	ISO - 175
Temperature Indicating Paint Colour Conversion		
150^{0}C for 30 Minutes	No Change	Visual
250^{0}C for 5 Minutes	Colour Change	Visual