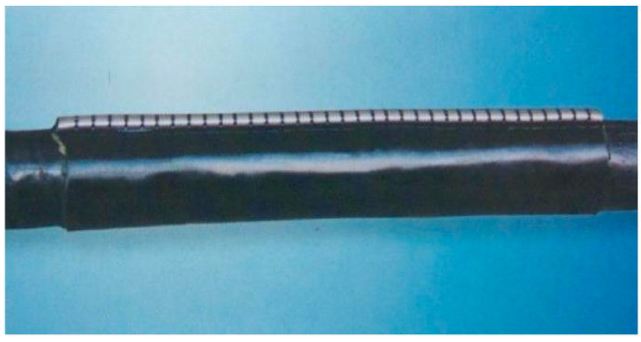
HEAT SHRINK REPAIR SLEEVE

Product	Heat Shrink Repair Sleeve	PWX SERIES
Specification	All Specifications	

1

2

3



4

1. Scope

This approval specifies technical requirement, package, storage and specification ofthe heat shrink repair sleeves.

2. Standards

ASTM-D-638

Standard test methods for tensile properties of plastics.

IEC 60243

Electrical strength of insulating materials-Test methods.

IEC 60093

Methods of test for volume resistivity and surface resistivity of solid electrical insulating materials.

ASTM-D-5510

Plastics-Methods of heat aging.

ISO 974

Plastics-Determination of the brittleness temperature by impact.

ISO 868

Plastics and ebonite-Determination of indentation hardness by means of a durometer (Shorehardness).

ISO 62

Plastics-Determination of water absorption.

3. Technical requirements

3.1 Product properties

Heat shrink repair sleeves are made of cross-linked polyolefin. It can provide fast and permanent repair and sealing protection for power cables.

Standard color: Black.

3.2 Appearance

The surface of the heat shrink repair sleeve should be smooth and clean, and free of pinholesor cracks visible to the unaided eye.

3.3 Heat shrink properties

Start to shrink at 90°C and fully recovered at 130°C

Radial shrink ratio: ≥ 50%

Wall thickness non-uniformity: ≤30%.

3.4 Physical and chemical properties: See Table 1.

3.5 Product specification: See Table 2.

4. Package, Transportation and Storage

4.1 Products can be packed according to customer's requirement.

4.2 These products are non-hazardous. Keep in clean, cool, dry, well-ventilated storagearea. During transportation and storage, pay attention to rain and sun and keep away from sources of ignition.

Table 1. Technical Data

Property	Test Method	Standard Value
Tensile Strength	ASTM-D-638	≥ 16 MPa
Elongation at Break	ASTM-D-638	≥ 370%
Tensile Strength After Heat Aging (130°C×168h)	ASTM-D-5510	≤ 12 MPa
Elongation at Break After Heat Aging (130°C×168h)	ASTM-D-5510	≤ 370%
Dielectric Strength	IEC 60243	≥ 15kV/mm
Volume Resistivity	IEC 60093	≥ $1\times10^{12}\Omega\cdot$cm
Operating Temperature Range	ISO 974	- 40°C up to 90°C
Heat Shock	160°C, 4h	No Crack
Water Absorption (23±2)°C, 24h	ISO 62	≤ 0.1%
Hardness (Shore D)	ISO 868	≥40

Dimensions

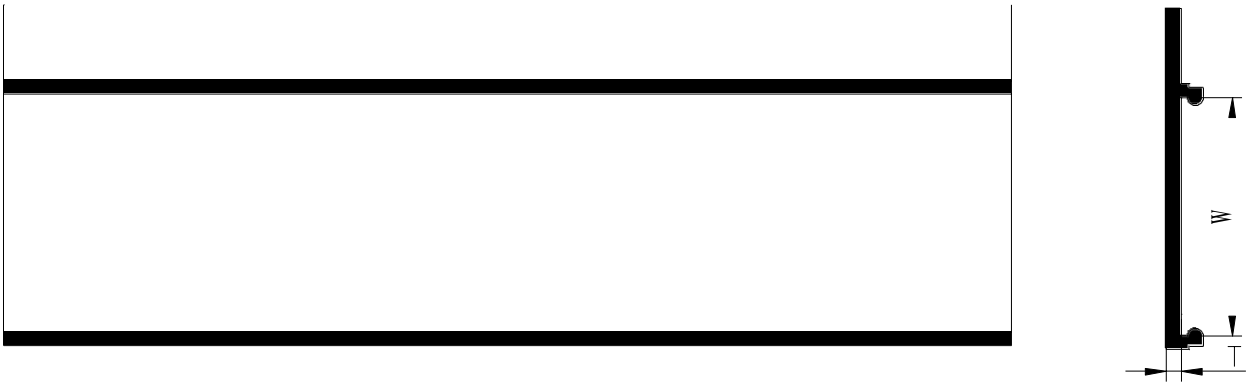


Table 2. Product Specification

Spec.*	Application Range/mm		As Supplied/mm		After Recovered/mm	
	Min	Max	Width(W) Min	Wall Thickness (T) (±0.3)	Width (W)Max	Wall Thicknes S(T) (±0.3)
Φ30/12	17	25	120	1.3	38	3.8
Φ40/12	17	35	130	1.2	38	3.8
Φ50/17	25	40	160	1.3	53	3.8
Φ65/24	29	50	205	1.2	75	3.8
Φ85/27	32	70	270	1.3	82	3.8
Φ100/27	32	80	320	1.4	82	3.8
Φ120/40	45	100	380	1.4	129	3.8
Φ150/50	60	120	475	1.4	157	3.8
Φ160/50	60	130	505	1.3	157	3.8
Φ170/51	60	140	505	1.2	160	3.8
Φ180/51	60	150	535	1.1	160	3.8
Φ195/52	65	165	590	1.0	163	3.8

*Standard Lengths (mm): 250, 500, 750, 900, 1000, 1200mm