KTG

Changyuan Electronics (Dongguan) Co., Ltd.

Product Specification

Product Name	Heat Shrink Cable End Cap	Supplier Code	
Specification	All Specifications	Customer Code	

Drafted/Date	Verified/Date
Wei Wei/June 1, 2020	Hu Jun/ June 1, 2020

Customer Approval /Date		

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1. Scope

This approval specifies technical requirement, package, storage and specification of the heat shrink cable end caps.

2. Standards

ASTM-D-638 (GB/T 1040)
Standard test methods for tensile properties of plastics

IEC 60243 (GB/T 1408)
Electrical strength of insulating materials-Test methods

IEC 60093 (GB/T 1410)
Methods of test for volume resistivity and surface resistivity of solid electrical insulating materials

ISO 974 (GB/T 5470)
Plastics-Determination of the brittleness temperature by impact

ISO 868(GB/T 2411)

Plastics and ebonite-Determination of indentation hardness by means of a durometer

(Shore hardness)

ISO 62(GB/T 1034)

Plastics-Determination of water absorption

3. Technical requirements

3.1 Product properties

CYG heat shrink cable end caps are made of cross-linked polyolefin. It can be applied on de-energized power cables as a watertight sealing, electrical insulation and mechanical protection cover. It is coated with hot-melt adhesive to ensure reliable seal of cable ends.

Standard color: Black.

3.2 Appearance

The surface of the heat shrink cable end caps should be smooth and clean, and free of pinholes or cracks visible to the unaided eye.

3.3 Heat shrink properties

Start to shrink at 90℃, and fully recovered at 130℃

Radial shrink ratio: ≥ 50%

Wall thickness non-uniformity: ≤35%.

3.4 Physical and chemical properties: See Table 1.

3.5 Product specification: See Table 2.

4. Package, Transportation and Storage

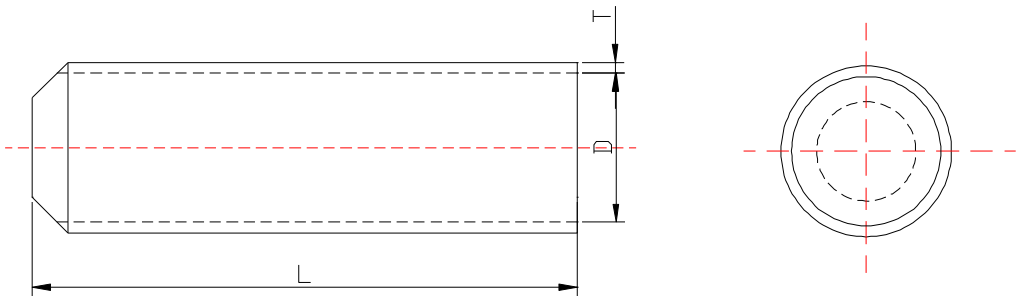
4.1 Products can be packed according to customer’s requirement.

4.2 These products are non-hazardous. Keep in clean, cool, dry, well-ventilated storage area. 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	≥10MPa
Elongation at Break	ASTM-D-638	≥300%
Volume Resistivity	IEC 60093	$\geqslant 1\times10^{13}\Omega\cdot cm$
Dielectric Strength	IEC 60243	≥15kV/mm
Brittle Temperature	ISO 974	-40℃
Heat Shock	160℃, 4h	No Crack
Water Absorption (23±2) ℃ 24h	ISO 62	≤0.1%
Hardness (Shore A)	ISO 868	≥80

Table 2. Product Specification



Spec.	As Supplied/mm			After Recovered/mm	
	Inner Diameter (D) (Min)	Wall Thickness (T) (±20%)	Height (L) (±5)	Inner Diameter (D) (Max)	Wall Thickness (T) (±10%)
Φ12	12	1.0	45	5	2.5
Φ16	16	1.0	70	8.5	2.5
Φ20	20	1.0	70	8.5	2.5
Φ25	25	1.0	80	11	2.5
Φ30	30	1.3	95	16	2.8
Φ35	35	1.0	95	18	2.6
Φ40	40	1.1	95	18	2.6
Φ55	55	1.0	125	26	2.7

Φ75	75	1.3	145	31	3.2
Φ100	97	1.3	140	40	5.2
Φ120	117	1.3	155	57	4.0
Φ140	140	1.3	185	63	4.0
Φ160	158	2.1	270	95	4.0
Φ180	180	2.1	270	95	4.0
Φ200	200	1.5	270	95	4.0
Φ250	245	1.5	270	95	4.0

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Power Division

June 1, 2020