
WH5640 DATA SHEET

客户名称:

Customer Name:

产品名称: 双壁内胶热收缩管

Products Name: Flame-Retardant Heat-Shrinkable Dual-Wall Tube

产品规格: 2-3/64, 1/2-1/8, 52/13-1/4

Products Size: 2-3/64, 1/2-1/8, 52/13-1/4

产品型号: CB-DWT(2X, 3X, 4X)

Products Type: CB-DWT(2X, 3X, 4X)

一. 产品简介 (Product Introduction):

CB-DWT 是一种内层附有热熔胶的半柔性热缩管, 外层是由辐射交联聚烯烃组成, 内层是专门设计的胶性内壁; 加热时内壁熔融, 并随外壁收缩填充孔隙或缝隙, 冷却后, 双壁管壁厚均匀、坚实。广泛应用于电子设备的接线防水, 电线分支处的密封固定, 金属管线的防腐保护, 以及防止由高分子链松弛产生的松动和脱落, 如水下灯饰、汽车油管、高级线束等。

CB-DWT is manufactured by co-extrusion of irradiated crosslinking polyolefin and specifically designed hot melt adhesive. This tubing maybe used in a wide variety of electrical applications, including back end connector sealing, breakouts, and connector to cable transitions. High expansion ratio makes it possible to repair most damaged cable jackets without removing connectors.

二. 特性参数 (Specifications)

项 目 Items	特性 Specifications	
收缩温度/°C Shrink Temperature	110	
温度等级/°C Temperature Range	125	
抗张强度/MPa Tensile Strength	≥10.4	
耐电压等级 (V) Dielectric Voltage Withstand	600	
断裂伸长率/% Ultimate Elongation	≥200	
轴向收缩率/% Longitudinal Change	≤15	
空气烘箱老化 Aging in Circulating-air Oven	158.0±1.0°C, 168hrs	
热老化后 After Aging	抗张强度/MPa Tensile Strength	≥7.3
	断裂伸长率/% Ultimate longation	≥100
击穿强度/kV/mm Dielectric Strength	≥15.0	
体积电阻率/Ω.cm Volume Resistivity	≥10 ¹³	
阻燃性 Flammability	VW-1	
吸水性/% Water Absorption	less than 0.4%	
流变性 Fluid Resistance	好 Excellent	
软化点/°C Softening Point	85±5	
剥离强度/N/25mm Peel Strength	>80	

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三. 双壁内胶热收缩管成品尺寸规格(Flame-Retardant Heat-Shrinkable Dual-Wall Tube Standart Sizes)

A. CB—DWT(2X)

规格 Size	扩张后 As Supplied (mm)		完全收缩后 After Recovery (mm)		
	内径 (ID)	总厚 Nominal Wall Thickness	最大内径 (Max ID)	总壁厚 (Total Wall Thickness)	胶层厚度(Nominal Adhesive Wall)
Φ1.2	1.5±0.3	0.30±0.10	0.60	0.45±0.12	0.20
Φ1.6	1.9±0.3	0.30±0.10	0.80	0.45±0.12	0.20
Φ2.4	2.8±0.4	0.35±0.10	1.20	0.55±0.12	0.30
Φ3.2	3.6±0.4	0.40±0.15	1.60	0.60±0.15	0.30
Φ4.8	5.2±0.4	0.40±0.15	2.40	0.75±0.15	0.35
Φ6.4	6.9±0.5	0.40±0.15	3.20	0.75±0.15	0.35
Φ9.5	9.9±0.5	0.40±0.15	4.80	0.80±0.20	0.35
Φ12.7	13.3±0.6	0.40±0.15	6.40	0.80±0.20	0.35
Φ19.1	19.7±0.6	0.50±0.20	9.50	0.95±0.28	0.40
Φ25.4	25.9±0.6	0.50±0.20	12.70	1.15±0.28	0.45
Φ38.1	39.0±0.9	0.65±0.25	19.00	1.25±0.41	0.45
Φ50.0	50.6±0.9	0.73±0.30	25.40	1.40±0.41	0.50

B. CB—DWT(3X)

规格 (Size)	扩张后 As Supplied (mm)		完全收缩后 After Recovery (mm)		
	内径 (ID)	总厚 Nominal Wall Thickness	最大内径 (Max ID)	总壁厚 (Total Wall Thickness)	胶层厚度(Nominal Adhesive Wall)
Φ2.4	2.8±0.4	0.40±0.15	1.0	0.85±0.25	0.35±0.10
Φ3.2	3.6±0.4	0.40±0.15	1.0	0.85±0.25	0.35±0.10
Φ4.7	5.1±0.4	0.40±0.15	1.5	1.05±0.25	0.45±0.10
Φ6.4	6.9±0.5	0.45±0.15	2.0	1.10±0.25	0.45±0.10
Φ7.9	8.4±0.5	0.55±0.20	2.5	1.45±0.25	0.45±0.10
Φ9.5	9.9±0.5	0.60±0.20	3.0	1.45±0.25	0.45±0.10
Φ10.5	11.0±0.5	0.60±0.20	3.5	1.45±0.25	0.45±0.10
Φ12.7	13.3±0.6	0.60±0.20	4.0	1.50±0.35	0.45±0.15
Φ15.7	16.4±0.7	0.65±0.25	5.0	1.70±0.40	0.45±0.15
Φ19.1	19.7±0.7	0.75±0.25	6.0	2.00±0.45	0.65±0.20
Φ25.4	25.9±0.7	0.75±0.25	8.4	2.00±0.55	0.65±0.20
Φ30.0	31.0±1.0	0.80±0.30	10.0	2.20±0.55	0.75±0.20
Φ31.8	32.6±1.0	0.80±0.30	10.6	2.20±0.55	0.75±0.20
Φ38.1	39.0±1.0	0.85±0.35	12.7	2.50±0.55	1.00±0.25
Φ40.0	41.0±1.0	0.85±0.35	13.7	2.50±0.55	1.00±0.25
Φ50.0	51.0±1.0	0.85±0.35	16.5	2.50±0.55	1.00±0.25

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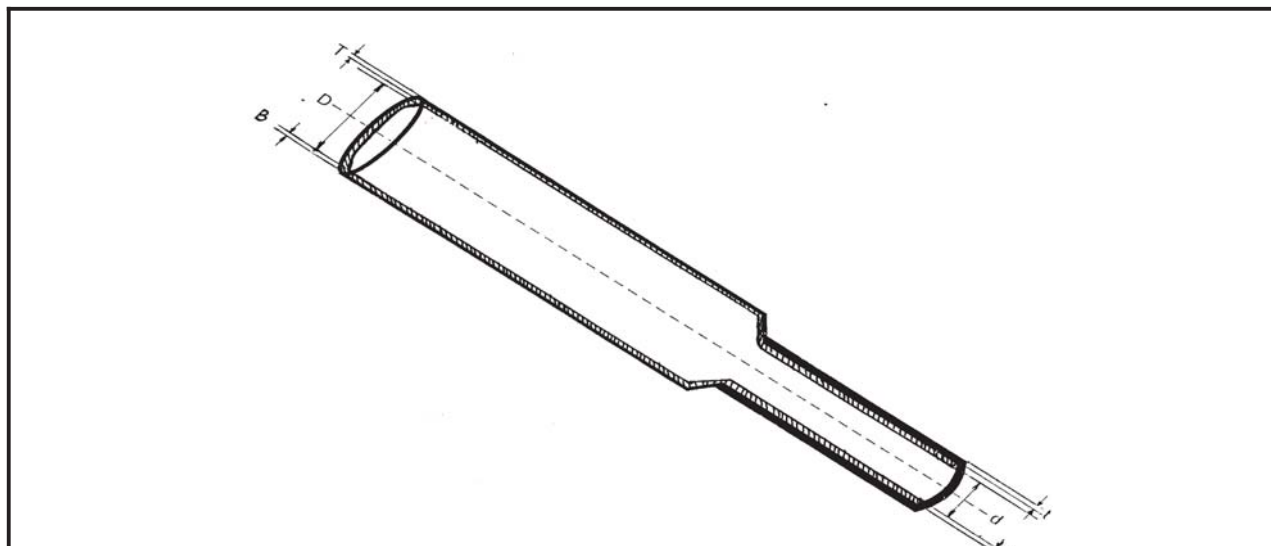
C. CB-DWT(4X)

规格 (Size)	扩张后 As Supplied (mm)		完全收缩后 After Recovery (mm)		
	内径 (ID)	总厚 Nominal Wall Thickness	最大内径 (Max ID)	总壁厚 Total Wall Thickness	胶层厚度 (Nominal Adhesive Wall)
Φ4	4.5±0.5	0.40±0.20	1	1.00±0.28	0.50
Φ8	8.6±0.6	0.40±0.20	2	1.10±0.28	0.50
Φ12	12.7±0.7	0.50±0.20	3	1.40±0.28	0.61
Φ16	16.7±0.7	0.60±0.30	4	1.78±0.38	0.76
Φ19.1	19.7±0.7	0.60±0.30	4.8	2.00±0.55	0.76
Φ24	25.0±1.0	0.75±0.40	6	2.25±0.55	0.76
Φ32	33.0±1.0	0.80±0.40	8	2.54±0.55	1.02

备注(Remark):

- 壁厚包括内层热熔胶厚度 (Wall thickness include adhesives)
- 可接受特殊规格产品订单 (Other sizes are available upon special order)。
- 标准颜色为黑色,可接受其他颜色订货 (Standard Black, Special colors available on request.)
- 因高倍率、双壁管生产工艺复杂,过程中一些不可控因素,造成产品壁厚、收缩率较单壁管会有明显偏差。

四. 双壁内胶热收缩管工程图 (Engineering Picture of CB Flame-Retardant Heat-Shrinkable Dual-Wall Tube)



备注(Remark):

- D-扩张后最小内径; T-扩张后套管外层壁厚;
- B-扩张后内层热熔胶厚度;
- d-自由收缩后套管内径; t-自由收缩后套管外层壁厚;
- b-自由收缩后内层热熔胶厚度。

产品不印字 (Tube No Printing)

单位(Unit): 毫米(mm)	日期(Date): 2016-12-21	名称(Name): 双壁内胶热收缩管	图号(No.): CB-DWT
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WH5640 MATERIAL SHEET

CB-DWT HEAT-SHRINKABLE TUBING IS COATED WITH HOT-MELT ADHESIVE , THE SLEEVING IS MADE IN IRRADIATED EVA , OTHER COMPOUNDS . PLEASE CHECK THE DETAILS FOLLOWING:

1. CB-DWT HEAT-SHRINKABLE TUBING (BLACK):

PART	MATERIAL NAME	USE AIM	RAW MATERIAL MANUFACTURER NAME	CAS NO.	MAREIAL MASS(%)
SLEEVING	EVA	MAIN RESIN	TOSOH/ Formosa Plastic	24937-78-8	≥49%
	Magnesium Hydroxide	FLAME TETARDANT	HUARI	1309-42-8	40%
	Red phosphorus	FLAME TETARDANT	HONGTAJI	7723-14-0	5%
	ANTI-OXIDE1010	ANTIOXIDANT	SHENGSHIDA	6683-19-8	1%
	PIGMENT	COLORANT	HENGCAI	1333-86-4	4%
	INK		XINDA	--	≤1%
ADHESIVE	HOT MELT ADHESIVE	AIRPROOF	AOKAIMI	/	100%

2. CB-DWT HEAT-SHRINKABLE TUBING (Multicolor):

PART	MATERIAL NAME	USE AIM	RAW MATERIAL MANUFACTURER NAME	CAS NO.	MAREIAL MASS(%)
SLEEVING	EVA	MAIN RESIN	TOSOH/ Formosa Plastic	24937-78-8	≥49%
	Aluminium hydroxide	FLAME TETARDANT	HUARI	21645-51-2	30%
	NM	FLAME TETARDANT	XUSENG	/	15%
	ANTI-OXIDE1010	ANTIOXIDANT	SHENGSHIDA	6683-19-8	1%
	PIGMENT	COLORANT	HENGCAI	/	4%
	INK		XINDA	--	≤1%
ADHESIVE	HOT MELT ADHESIVE	AIRPROOF	CHANGTONG	/	100%