



住友电工（苏州）电子线制品有限公司

Sumitomo Electric Interconnect Products (SUZHOU)Ltd.

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编 号

Spec. NO: IHE8-06008A(SZ)

客 户 : 利康顺电线(深圳)有限公司

Customer :

规格书 (案)

SPECIFICATION

FOR

屏蔽电线

Shielded Wire

UL10005 (80°C, 30V)

AWM10005 AWG36 Double Shielded Wire

编制日期/Date : 2017-12-04

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Design Engineering Section



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1. 适用范围

本规格书制定了屏蔽电线的结构和电气特性。

UL10005 (80°C, 30V)

AWM10005 AWG36 双层屏蔽电线

参考：本公司日本工场规格书编号 IHE8-06008

1. Scope

This specification covers the construction and the electrical properties of Shielded Wire.

UL10005 (80°C, 30V)

AWM10005 AWG36 Double Shielded Wire.

Ref: Our Japan Factory Spec. No IHE8-06008

2. 结构/Construction

单位/Unit: mm

项目/Item		详细资料/Details
导体 Conductor	Material/材料	镀锡软铜线 Tinned Annealed Copper Wire
	构成 (根/mm) / Composition (No. /mm)	7/0.05
	标称外径 (mm) /Nom. O. D (mm)	0.15±0.015
绝缘层 Insulation	材料/Material	PFA (黄) /PFA (Yellow)
	标称绝缘厚度 (mm) /Nom. Thick (mm)	0.07
	标称外径 (mm) /Nom. O. D (mm)	0.29±0.02
屏蔽层 (1) Shield (1)	材料/Material	镀锡铜合金线 Tinned Copper Alloy Wire
	构成/Composition	横卷屏蔽 0.03 /Spiral Shield Of 0.03
屏蔽层 (2) Shield (2)	材料/Material	铜蒸着聚酯包带 Copper Coated Polyester Tape
	构成/Composition	绕包/Wrapping
外包带 Wrapping Tape	材料/Material	聚酯包带 (粉红) /Polyester Tape (pink)
	构成/Composition	绕包/Wrapping
	标称外径 (mm) /Nom. O. D (mm)	0.39±0.03

3. 电气特性 (20°C时) /Electrical Properties (at 20°C)

项目/Item	单位/Unit	详细资料/Details
导体阻抗/Conductor Resistance	Ω /km	Max. 1490
绝缘阻抗/Insulation Resistance	MΩ • km	Min. 1524
耐压强度/Dielectric Strength	V (AC) /min	500
额定温度/Rating of Temperature	°C	80
额定电压/Rating of Voltage	V	30
许容电流/Permissible Current (*)	A	0.6 (Ref.)

(*) Single coaxial cable in the air, at ambient temperature 40°C, Max conductor temperature 80°C.

(*) 指在单独一条同轴电线敷设在空气中, 周围温度 40 °C, 导体最大受热温度 80°C の場合。



4. 环境负荷物质对应状况/Environment-Friendliness

*Compliance “O”

RoHS Directive							
铅 Lead Free	水银 Hg Free	镉 Cd Free	六价铬 Cr6+ Free	多溴联苯 PBB Free	聚溴二苯醚 PBDE Free	PVC Free	①卤素 Halogen Free
○	○	○	○	○	○	○	○

备注/Remark:

① Halogen Free : 管理对象为Cl(氯)、Br(溴)物质, 不包括氟素(F)。

The scope of Halogen is not including Fluorin resin.

5. 包装

5.1 单位长度

1) 成品线标准单位包装长度为: 1000 米/盘

2) 成品线最小单位包装长度为: 100 米/盘

5.2 塑料盘尺寸 (P-130;Black)

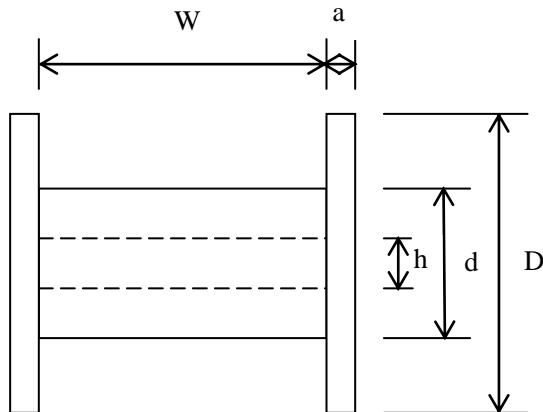
5. Packing

5.1 Unit length

1) Standard unit length of finished cable shall be 1000m on reel.

2) Min. unit length of finished cable shall be 100m on reel.

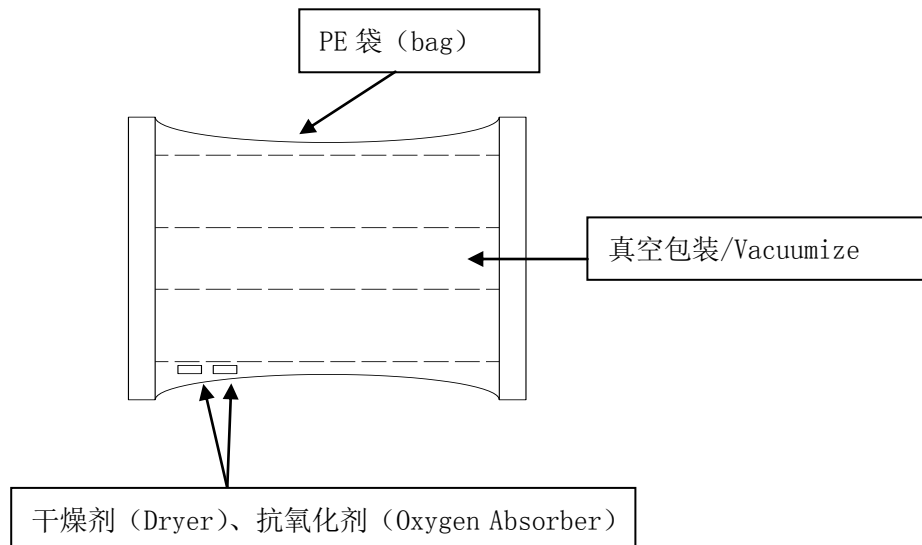
5.2 Dimension of plastic reel (P-130;Black)



单位/Unit: 毫米/mm

Item	D	d	W	a	h
P-130	130	60	90	10	20

5.3 塑料盘的包装/Packing of plastic reel:

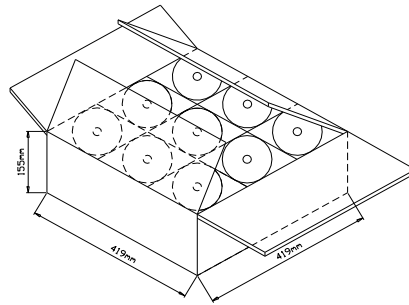




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5.4 包装纸箱尺寸/ Dimension of packing carton (C5-1.3B):

单位/Unit: 9 Reels/box



包装示意图/packing illustration

6. 表示

每盘都应该加上具有以下 UL 标志项目的标签。

- | | |
|-----------|------------|
| (1) 生产日期 | (7) 外被厚度 |
| (2) 工厂名称 | (8) 用途 |
| (3) UL 型号 | (9) 导体尺寸 |
| (4) 额定电压 | (10) 颜色 |
| (5) 额定温度 | (11) 长度 |
| (6) 绝缘厚度 | (12) Lot 号 |

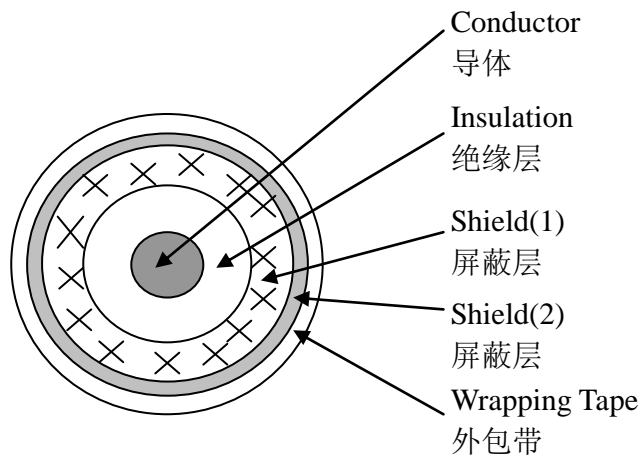
6. Marking

Each reel shall be tagged to show the following information with UL stamp.

- | | |
|--------------------------|----------------------|
| (1) Date of manufacture | (7) Jacket thickness |
| (2) Name of manufacture | (8) Use |
| (3) UL Style No. | (9) Conductor size |
| (4) Rating voltage | (10) Color |
| (5) Rating temperature | (11) Length |
| (6) Insulation thickness | (12) Lot No. |

7. 用途: 电子设备内部二级回路配线/Use: Internal Wiring of Electronic Equipment in Class 2 Circuits.

结构示意图 / Construction illustration



8. 实际应用中注意事项/Notice of application

8.1 请将电线储存在阴凉干燥的地方, 建议储存条件如下:

温度: 20-30 度, 湿度: <60%

Please store the cable in the dry and cool place, suggest the store conditions as follows: Temperature:20-30°C, Humidity: <60%

当在如上储存条件下建议在一年内使用

When under the above storage condition suggested that uses in one year



- 8.2 当使用电线时应注意不要破坏它，因为电线是非常薄和小的。
When using the cable, be care not to break it because the cable is very thin and small
- 8.3 当在剥离绝缘皮时，请注意不要破坏内部导体。
When peeling the insulation, please be care of not breaking the inner conductor
- 8.4 当在装配时的建议镀锡条件如下：
温度：265±5 度，助焊剂：及时雨-LFD，浸入时间：2-3 秒。
When assembling suggest the tinned plated conditions as follows:
Temperature:265±5°C, Flux:JiShiYu-LFD, dip time:2-3s.
当在镀锡时一定要不要把绝缘层和外被全部浸入到锡液中，因为过高的温度和过长时间会导致绝缘层及外被软化和收缩。
And do not immerge the insulation and jacket into tin. Because too high temperature and Too long time will cause the insulation and jacket softening and shrinking.
- 8.5 装配时请不要破坏绝缘，否则将造成内导体和外导体短路
When assembling please do not damage the insulation, otherwise short circuit between inner Conductor and outer conductor will be caused.
- 8.6 请不要使用一些有机化合物清洗电线。
Please don' t use some organic compound wash the cable.
- 8.7 当拆包装时，请不要使用尖锐的工具，以避免损坏电线的袋子。
When tearing the packing, please do not use the sharp tools to avoid damaging the cable in the bag.
- 8.8 本制品有时不适合车载用途的情况也有，所以使用前请先和弊社营业进行商谈。
This products is not suitable for automobile application in some cases .
Please contact with our sales office before you use this product.

规格书完

End of specification