

# 带状线 (-NAR, -CCAR, -ALR)

## Ribbon Wires

带状线是导体形状为带状的漆包线。我公司制造的各种带状线，实现了线圈的小型化和高性能化。

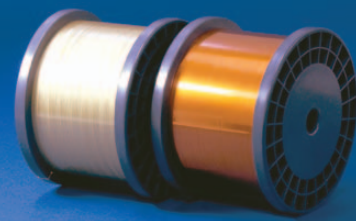
Ribbon Wire is a magnet wire with a flat conductor. FMGW makes ribbon wires of various kinds for miniaturization and high performance.

### 特长 FEATURES

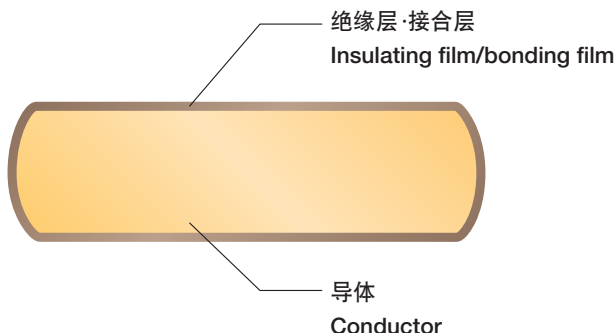
- ① 占积率比圆电线高**  
Better than round wires in terms of space factor
- ② 铜包铝带状线、铝带状线大幅度减轻线圈分量**  
Aluminum and copper clad aluminum ribbon wires further reduce coil weight
- ③ 包含边角部，具有均匀的绝缘特性**  
Uniform quality of insulation over the surface including the corners
- ④ 细孔的发生率和圆线一样低**  
Presence of pinholes as low as round wires
- ⑤ 绕线作业性优良，有利于提高线圈表面平整性**  
Easy, efficient winding contributes to the flatness of coil surface

# 带状线 (-NAR, -CCAR, -ALR)

## Ribbon Wires



### 结构 CONSTRUCTION



### 型号说明 Product name

SF.EI LOCKY5 - NAR

Ⓐ Ⓑ Ⓒ

- Ⓐ 绝缘层的种类      Ⓑ 接合层的种类  
 Ⓒ NA带状线      Ⓓ Type of bonding film  
 Ⓐ Type of insulating film      Ⓒ NA ribbon wire

### 用途 Applications

可动线圈、印刷线圈、小型电机、  
高级扬声器、变压器  
Moving coils, Printercoils, Small motors,  
Highclass speakers, Transformers

### 制造范围 Range of manufacture

#### ①铜 Copper

标识号 Code	绝缘层 Insulating Film	接合层 Bonding Film	厚度和宽度之比 Thickness/Width Ratio	等效圆线直径 (mm) Equivalent Round Conductor
-NAR	SF.B PE SF.EI EI	MZW LOCK LOCK Y1, Y3, Y5	1:3 ~ 1:15	0.09 ~ 0.60 最小导体厚度 Min. conductor thickness 0.03

#### ②铜包铝 Copper-clad aluminum

标识号 Code	绝缘层 Insulating Film	接合层 Bonding Film	厚度和宽度之比 Thickness/Width Ratio	等效圆线直径 (mm) Equivalent Round Conductor
-CCAR	UE PE SF.EI EI	MZW LOCK LOCK Y1, Y3, Y5	1:3 ~ 1:4	0.15 ~ 0.40 最小导体厚度 Min. conductor thickness 0.06

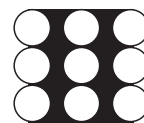
#### ③铝 Aluminum

标识号 Code	绝缘层 Insulating Film	接合层 Bonding Film	厚度和宽度之比 Thickness/Width Ratio	等效圆线直径 (mm) Equivalent Round Conductor
-ALR	UE PE SF.EI EI	MZW LOCK LOCK Y1, Y3, Y5	1:3 ~ 1:10	0.20 ~ 0.40 最小导体厚度 Min. conductor thickness 0.07

### 占积率的比较 Comparison of space factor

(圆电线)

Round wire

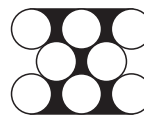


约78% 整齐绕线

Approx. 78% Array winding

(圆线)

Round wire

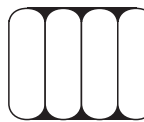


约91% 整齐绕线

Approx. 91% Array winding

(带状线)

Ribbon wire



约96% 对边绕线

Approx. 96% Edgewise winding

#### ●技术相关询问处

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