

SHI C5138K

1<sup>st</sup> edition 1 / 2

Products Name	Polyester Elastomer Insulation Cable 40/0.08 3P FRPEL21-SV(U)(100M)K-M	Division	Engineering Dept.2	
		Issue date	May 24, 2017	
Note		Approved by	Checked by	Designed by
		K. Takagi	T. Shiraiishi	Y. Kagaya


## 1. Scope

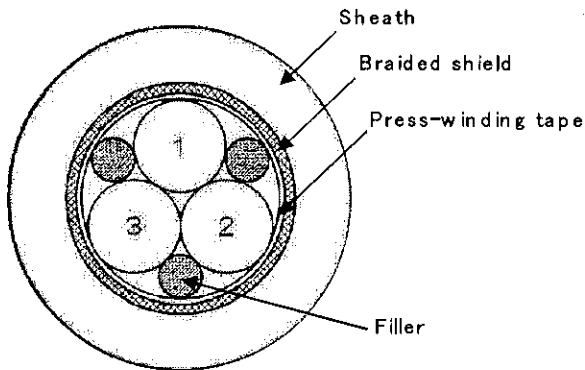
This specifications define the polyester elastomer insulation cable which conforms to UL 2517.

Rated: 105°C 300V

Application: Indoor moving part

## 2. Cable Structure

Item		Specification
Conductor	Type	Tinned annealed copper wire
	Stranding mm	40/0.08 mm(Nominal)
	Outer diameter	0.58 mm (Nominal)
Insulation	Type	Polyester Elastomer
	Color	Blue, White, Yellow, Gray, Green, Black
	Thickness	0.21 mm(Nominal)
	Outer diameter	1.0 mm(Nominal)
Twisting	Structure	See Table 1 Twisting first line and second line parallel
Forming	Structure	See Figure 1
	Taping	After twisting, the outermost layer is wound with press-winding tape
Braided Shield	Type	Tinned annealed copper wire
Sheath	Type	Heat resistance PVC
	Color	Matt Black ( Oki color mark K-M)
	Outer diameter	6.7 mm(Nominal)
	Mark	OKIELECTRIC CABLE  AWM 2517 105C 300V VW-1
Finished products	Standard length	100
	Short length	10m
	Packing	Bundle
Cross-Section Figure		See Figure1



Number means pair number.  
Figure 1 Cable Cross-Section

Table1 Insulation color of pairs

Pair Number	Insulation color	
	First line	Second line
1	Blue	White
2	Yellow	Brown
3	Green	Black

3. Cable performance

Item		Performance
Electric Performance	Conductor resistance (20°C)	105 or less (Ω/k m)
	Insulation resistance (20°C)	100 or more (MΩk m)
	Withstand Voltage	AC 2000 (V-min)
Sheath Performance	Tensile strength after oil aging	85% or more of the value before oil aging
	Elongation after oil aging	75% or more of the value before oil aging
	Conditions of oil aging	70°C 4 hours (JIS K6723)
UL	UL style	2517
	Flame test	VW-1

4. Environmental Measures

This product is RoHS compliant. (DIRECTIVE 2002/95/EC OF The European Parliament and of the Council as of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment) This product is also compliant with 94/62/EC (European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste).

5. Validity

This specification makes 1 year effective from a drawing day.  
However, when there is not a proposal from a customer or our company by 3 months  
Before its expiration, it decides to be extended 1 year in addition.  
It is done the same afterward