

Specification

for

Mitsubishi Electric AC Servo System

Encoder cable

Type SC-AENSJ4CBL0.3M-■-L

MITSUBISHI ELECTRIC  
SYSTEM & SERVICE CO.,LTD

Note												
Revision								Drawn	Check	Design	Approved	
									N.Ishii	S.Kariya	T.Kasahara	D.Fukushima
Send to								Date		Dwg		
								7 June 2024		X953503D70003-F11		
								Order				

## 1. SCOPE

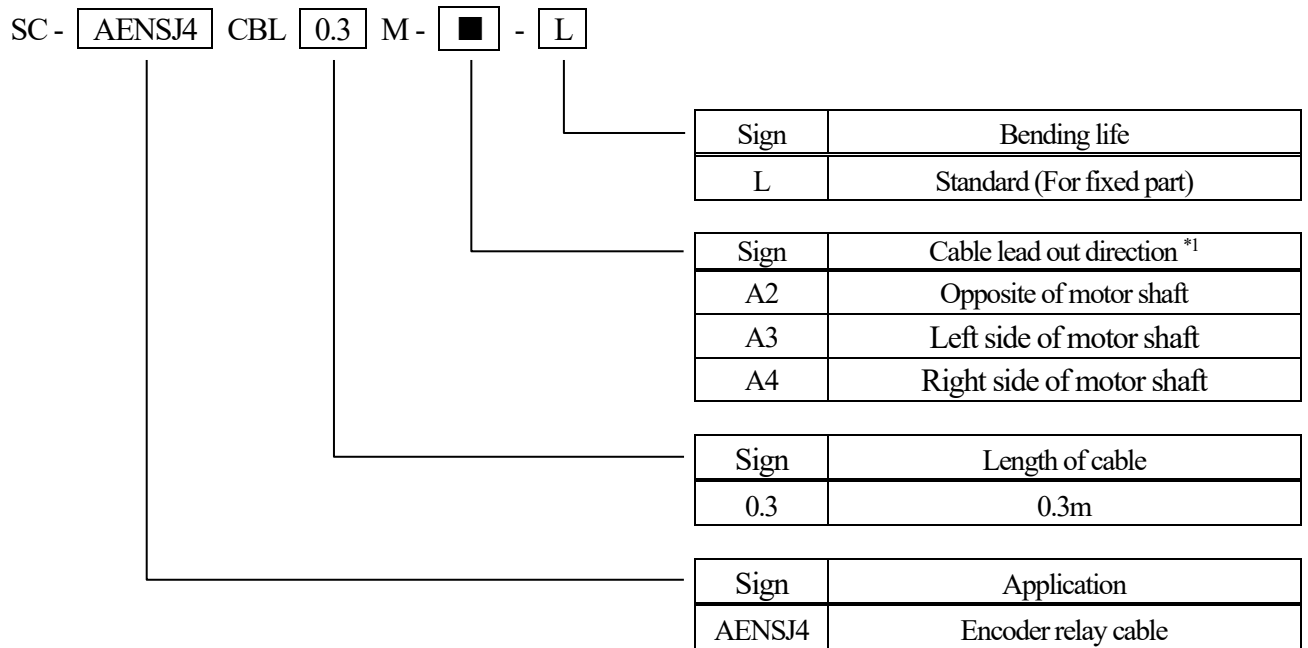
This specification covers the requirements for the Mitsubishi Electric AC Servo System Encoder cable.

- SC-AENSJ4CBL0.3M-■-L

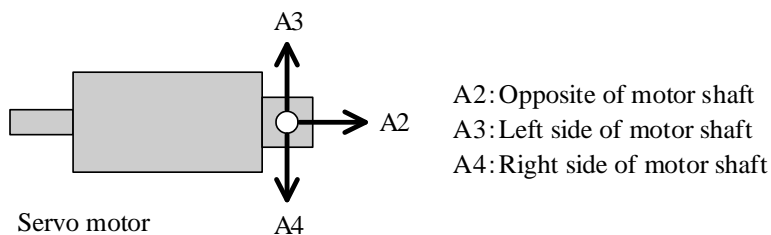
※ The products specified in this specification comply with the EU RoHS Directive.

※ UL's Wiring Harnesses Traceability program provides traceability for this cable.

## 2. CABLE TYPE



\*1 : Cable lead out direction (View from cable insertion direction)



(Note) Depending on the situation such as installation environment or combination of cables and connectors, there is a chance not to complete installation. (Even though it's mentioned above) Please make sure the cable lead out direction before your purchase.

### 3. APPLICABLE STANDARDS

Wire part : UL standard (UL 758 : AWM)

UL Style No.	Rated	
20276	80°C	30V

### 4. APPLICABLE SERVO MOTOR / LENGTH OF CABLE

0.3m

※Refer to the CABLE SELECTION TABLE "R9535021-018028-015" for applicable motors, connection cables and total cable length.

### 5. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-AENSJ4CBL0.3M-■-L   xxxxxxx

※   ■ is cable lead out direction from A2, A3, or A4.

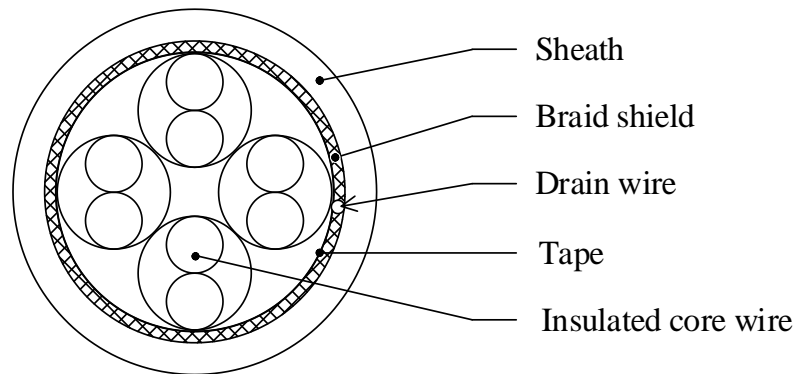
※   xxxxxxx are the serial number for seven digits.

## 6. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification
Wire			
Structure		—	AWG24×4P
Conductor	Conductor size	—	AWG24
	Outer diameter	mm	Approx. 0.6
Insulation	Material	—	PVC
	Outer diameter	mm	Approx. 1.1
Twisted pair	Number of insulated core wire	—	2C
	Outer diameter	mm	Approx. 2.2
Twisted	Number of pairs	—	4P
	Number of insulated core wire	—	—
Shield	Material	—	Tin coated copper braid
Sheath	Material	—	Flame resisting PVC
	color	—	Black
Overall diameter		mm	Approx. 7.5
Approx. weight		kg/km	80
Electrical characteristics	Insulation resistance	MΩ · km	Over 10
	Withstand voltage	V / for 1 min	AC500
Minimum bend radius		mm	6 times the overall diameter
Flame retardant		—	UL1581 VW-1
Connector			
Amplifier side		Type	DDK Ltd. CMV1-CR10P-M2 (Cable receptacle)
		IP rating	IP67 <sup>*1</sup>
Motor side		Type	DDK Ltd. CMV1-AP10S-M2 (Angle plug)
		IP rating	IP67 <sup>*1</sup>
Cable harness			
Environment	Ambient temperature	°C	0 to 60 (non-freezing)
	Ambient humidity	%RH	5 to 95 (non-condensation)
	Ambience	—	Indoors (no direct sunlight), no corrosive gas, inflammable gas, oil mist, or dust
Electrical characteristics	Insulation resistance	MΩ · km	Over 10
	Withstand voltage	V / for 1 min	AC500

\*1 The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

## 7. STRUCTURAL DRAWING



## 8. OUTLINE DRAWING

[Unit : mm]

