Specification for Mitsubishi Electric AC Servo System Encoder cable

Type SC-AENSJTCBL□M-■-H

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

Revision Drawn Check Design Approved

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Send to Date Dwg

7 June 2024

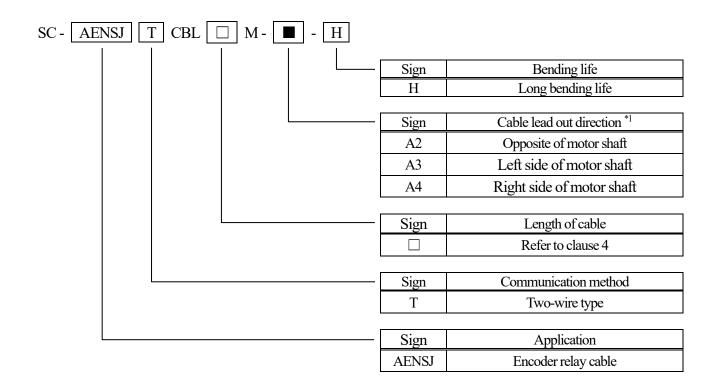
Order X953503D70003-F10

1. SCOPE

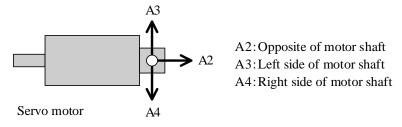
This specification covers the requirements for the Mitsubishi Electric AC Servo System Encoder cable.

- SC-AENSJTCBL□M-■-H
- * 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.	Ra	ited
20276	80°C	30V

4. APPLICABLE SERVO MOTOR / LENGTH OF CABLE

1 to 5m

**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-AENSJTCBL□M-■-H ××××××

- \times \square is a figure from 1 to 5.
- is cable lead out direction from A2, A3, or A4.

 is cable lead out direction from A2, A3, or A4.
- ※ ×××××× are the serial number for seven digits.

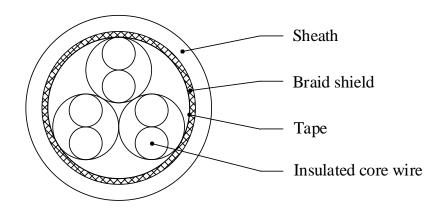
6. STRUCTURE AND CHARACTERISTICS

	Item		Unit	Specification			
W	Wire						
	Structure		_	AWG22×3P			
	Conductor	Conductor size	_	AWG22			
		Outer diameter	mm	Approx. 0.8			
	Insulation	Material	_	ETFE			
		Outer diameter	mm	Approx. 1.2			
	Twisted pair	Number of insulated	_	2C			
		core wire					
		Outer diameter	mm	Approx. 2.3			
	Twisted	Number of pairs	_	3P			
		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 100			
		Withstand voltage	V / for	AC500			
		winistand voltage	1 min				
	Minimum bend radius		mm	6 times the overall diameter			
	Bending life		_	Over 1 million times*1			
				(by Minimum bend radius)			
	Flame retardant		_	UL1581 VW-1			
C	Connector						
	Amplifier side		Туре	DDK Ltd.			
				CMV1-CR10P-M2 (Cable receptacle)			
	Motor side		IP rating	IP67*2			
			Type	DDK Ltd.			
				CMV1-AP10S-M2 (Angle plug) IP67*2			
\mathbf{C}	IP rating IP67*2 Cable harness						
	Ambient temperature		°C	0 to 60 (non-freezing)			
	Environment	Ambient humidity	%RH	5 to 95 (non-condensation)			
		Ambience	—	Indoors (no direct sunlight), no corrosive gas,			
			MO - 1	inflammable gas, oil mist, or dust			
	Electrical	Insulation resistance	MΩ · km	Over 10			
	characteristics	Withstand voltage	V / for 1 min	AC500			

^{*1} It is a test outcome, and not a guaranteed value. (The performance is different according to customer's environment.)

^{*2} 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]

