Specification for

General purpose AC Servo

Encoder cable

Type SC-J3JCBL□M-■-L

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

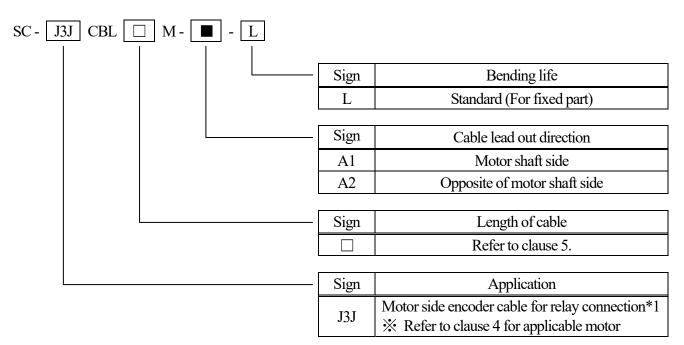
	Re	vision		Drawn	Check	Design	Approved
A	21 Aug.,2019			n. Sto	J. Kariya	L. minenaya	D. Jubeshim
	Send to			Da	ate	D	wg
				22 Ma	r.,2016		
				Order X903703D:		50052-E01A	

1. SCOPE

This specification covers the requirements for the General purpose AC Servo Encoder cable.

- SC-J3JCBL□M-■-L.
- X This cable doesn't include the toxic substances in RoHS (Lead, Mercury, Cadmium, Hexavalent Chromium, PBDE, PBB).
- X UL's Wiring Harnesses Traceability program provides traceability for this cable.

2. CABLE TYPE



*1 Please use it with amplifier side encoder cable.

Refer to clause 6 for confirming the combination and cable length.

3. APPLICABLE STANDARDS

Wire part: UL standard (UL 758: AWM)

	UL Style No.	Ra	ted
2464		80°C	300V

4. APPLICABLE SERVO MOTOR

Refer to MR-J4 APPLICABLE SERVO MOTOR TABLE "R9037020-010022-105".

5. LENGTH OF CABLE

0.3m or 1 to 5m Specified by 1m unit

6. CABLE LENGTH FOR RELAY CONNECTION

	Total cable length		
Amplifier side	Motor side		Total cable length
SC-EKCBL□M-L	SC-J3JCBL□M- ■ -L	1m or less	50m or less
SC-EKCBL□M-H	SC-J3JCBL□IVI-■-L	2 ~ 5m	40m or less
SC-EKCBL□M-S	SC-J3JCBL□M-■-L	4m or less	20m or less
SC-EK4CBL□M-H	SC-J3JCBL□M- ■ -L	1m or less	100m or less
SC-LIXTODL IVI-II	SC-333CBLIVI- ==-L	2 ~ 5m	80m or less

7. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-J3JCBL□M-■-L ×××××××

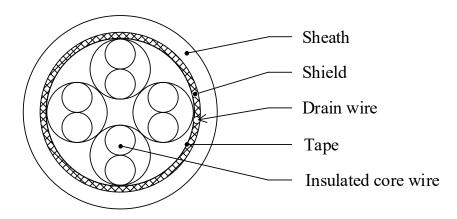
- % \square is a figure from 0.3 or 1 to 5.
- is cable lead out direction from A1,A2. ■

8. TRUCTURE AND CHARACTERISTICS

Item			Unit	Specification		
Structure			_	AWG24×4P		
C 1 4	Conductor siz	ze	_	AWG24		
Conductor	Outer diamet	er	mm	Approx. 0.60		
T.,14	Material		_	PVC		
Insulation	Outer diamet	er	mm	Approx. 1.10		
Twisted pair	Number of in core wire	sulated	_	2C		
1	Outer diamet	er	mm	2.2		
Twisted	Number of pa	airs	_	4P		
Drain wire				Tin coated copper		
Shield	Material	Material		Tin coated copper braid		
C141.	Material		_	Flame resisting PVC		
Sheath	color		_	Black		
Overall diameter			mm	Approx. 7.5		
Electrical	Insulation res	istance	MΩ · km	Over 10		
characteristics	Withstand vo	ltage	V/for 1min	AC500		
Operating temperature range			$^{\circ}\! \mathbb{C}$	-10~+60 (without condensation)		
Minimum Bend Radius			mm	6 times the overall diameter		
Flame Retardant			_	UL1581 VW-1		
	Servo amplifier side	Туре	1-1721	lectronics Japan GK. 1-172169-9 (Plug) 316454-1 (Cable crump)		
Connector	P	IP rating	IP20*1	•		
	Servo motor	Туре	217405	Tyco electronics Japan GK. 2174053-1 (Micro motor connector)		
	side	IP rating	IP65*1			

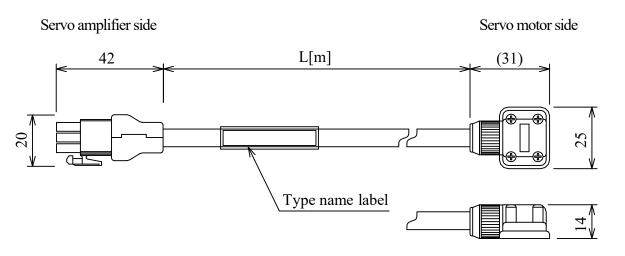
^{*1} The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

9. STRUCTURAL DRAWING



10. OUTLINE DRAWING

[Unit:mm]



11. SYSTEM CONFIGURATION DIAGRAM

