Specification for General purpose AC Servo Encoder cable

Type SC-EKCBL□M-L

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

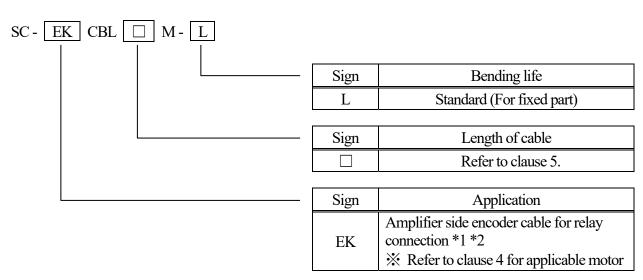
Revision					Drawn	Check	Design	Approved
Α	15 Mar.,2016							
В	B 21 Aug.,2019				n. Sta	S. Varino	F Kasalana	19 repeshir
С	17 Aug.,2021				7 = 4 ()		- Lucine Co	JO. 1940-
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					18 Ap	r.,2011		
	Order		der	X903703D50052-E02C				
		_1						

1. SCOPE

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

- SC-EKCBL□M-L.
- * Please note that the product specifications described in this specification are subject to change without notice for improvement.
- ※ If you need copy exactly, please contact our Sales Department. Copy exactly ... Products made in the same process, same parts

2. CABLE TYPE



- *1 Please use it with motor side encoder cable. Refer to clause 6 for confirming the combination and cable length.
- *2 The cable(Over 30m) is available in 4-wire type. Parameter setting is required to use the 4-wire type encoder cable. Refer to "SERVO AMPLIFIER INSTRUCTION MANUAL issued by Mitsubishi Electric Corporation" for more details.

3. APPLICABLE STANDARDS

Wire part: UL standard (UL 758: AWM)

THE PERFORMANCE (22 / 0 0 / 1 2 / / 1 / 2 / /		
UL Style No.	Rated		
20276	80°C	30V	

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

• This cable doesn't include the toxic substances in RoHS.

4. APPLICABLE SERVO MOTOR

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

5. LENGTH OF CABLE

1 to 50m Specified by 1m unit

6. CABLE LENGTH FOR RELAY CONNECTION

	Total calila law atla		
Amplifier side	Motor side	Total cable length	
	SC-J3JCBL□M-■-L	1m or less	50m or less
	SC-J3JCBL□M-■-H	IIII OI IESS	
SC-EKCBL□M-L	SC-J3JCBL□M-■-L	2 ~ 5m	40m or less
SC-ENCOL_IVI-L	SC-J3JCBL□M-■-H	2~3m	
	SC-J3J2CBL□M-■-S*1	3m or less	30m or less
	SC-J3J2CBL□M-■-N *1	3III or less	

^{*1} This cable is only for 2 wire type connection.

7. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-EKCBL \square M-L $\times \times \times \times \times \times \times$

% \square is a figure from 1 to 50.

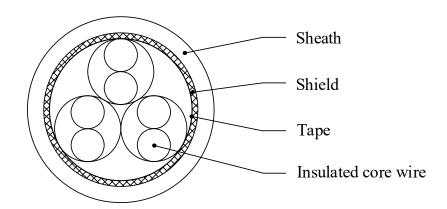
8. STRUCTURE AND CHARACTERISTICS

Item			T T*4	Specification		
			Unit	1 ~ 10m	11~50m	
Structure			_	AWG22×3P	AWG23×6P	
Cantan	Conductor s	size	_	AWG22	AWG23	
Conductor	Outer diameter		mm	Approx. 0.8	Approx. 0.7	
Insulation	Material		_	PVC		
Insulation	Outer diameter		mm	Approx. 1.2	Approx. 1.3	
Twisted pair	Number of insulated core wire		_	2C	2C	
1	Outer diameter		mm	Approx. 2.3	Approx. 2.4	
Twisted	Number of pairs		_	3P	6P	
Shield	Material		_	Tin coated copper braid		
Classifa	Material		_	Flame resisting PVC		
Sheath	Color		_	Black		
Overall diameter	r		mm	Approx. 7.1	Approx. 8.2	
Cable weight			kg/km	75	95	
Electrical	Insulation resistance		$MΩ \cdot km$	Over 10		
characteristics	Withstand voltage		V for1minute	AC500		
Operating temporal	erature range		$^{\circ}\!\mathrm{C}$	-10~+60 (without condensation)		
Minimum Bend	Radius		mm	6 times the overall diameter		
Flame Retardant	t		_	UL1581 VW-1		
			Molex Japan LLC			
	Servo amplifier side	Туре	54599-1016 (Connector set) or 3M Japan Limited 36210-0100PL (Receptacle) 36310-3200-008 (Shell kit)			
Connector		IP rating	IP20*1			
	Servo motor side	Туре	Tyco electronics Japan G.K. 1-172161-9 (Housing) AINIX Co., Ltd. MTI-0002 (Cable crump)			
		IP rating	IP20*1			

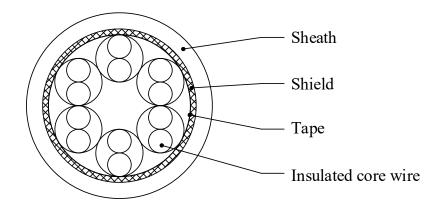
^{*1} The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

9. STRUCTURAL DRAWING

(1) 1~10m

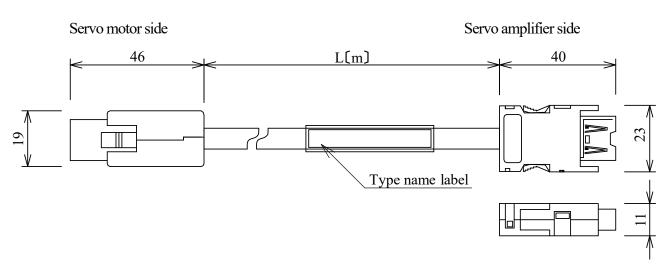


(2) 11~50m



10. OUTLINE DRAWING

[Unit:mm]



11. SYSTEM CONFIGURATION DIAGRAM

