Specification for General purpose AC Servo Ultra Long Bending Life Encoder cable

Type SC-J3ENCBL □M-■-S

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

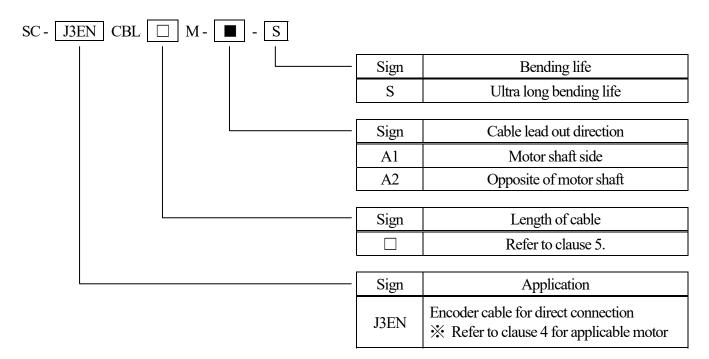
Note Revision Check Design Approved Drawn 13 Nov.,2017 n. Sto S. Kariyan & Kasahara D. Subusti 17 Aug.,2021 В Send to Date Dwg 22 Mar.,2016 Order X903703D50052-E48B

1. SCOPE

This specification covers the requirements for the General purpose AC Servo Ultra Long Bending Life Encoder cable.

- SC-J3ENCBL□M-■-S
- * 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



3. APPLICABLE STANDARDS

Wire part: UL standard (UL 758: AWM)

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

HG-KR, HG-MR series motor HF-KN, HF-KP, HF-MP series motor

5. LENGTH OF CABLE

1 to 10m Specified by 1m unit

6. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-J3ENCBL□M-■-S ×××××××
is a figure from 1 to 10.
is cable lead out direction from A1, A2.
××××××× are the serial number for seven digits.

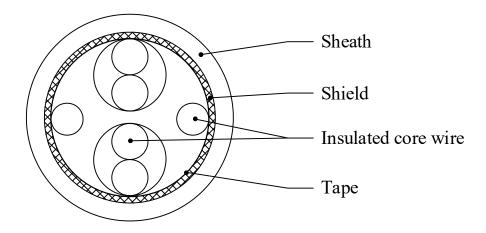
7. STRUCTURE AND CHARACTERISTICS

Item			Unit	Specification	
Structure			_	AWG24×2C	AWG22×2P
Com looks a	Conductor size		_	AWG24	AWG22
Conductor	Outer diameter		mm	Approx. 0.6	Approx. 0.8
т 1.4	Material		_	ETFE	
Insulation Outer diameter		mm	Approx. 1.1	Approx. 1.3	
Number of pa		airs	_	_	2P
Twisted pair	Twisted pair Number of insulated core wire		_	2C	2C
Shield	Shield Material		_	Copper alloy braid	
Material Material			_	High elastic PVC	
Sheath	Color		_	Black	
Overall diameter			mm	Approx. 7.1	
Electrical Insulation resistance		istance	MΩ·km	Over 500	
characteristics	Withstand vo	Withstand voltage		AC500	
Operating temperature range Minimum Bend Radius Bending life Flame Retardant			$^{\circ}\! \mathbb{C}$	$-10\sim+60$ (without condensation)	
			mm	6 times the overall diameter	
			_	Over 10 million times *1 (Bend radius: Minimum bend radius)	
			_	UL1581 VW-1	
Connector	Servo amplifier side	Туре	Molex Japan LLC 54599-1016 (Connector set) or 3M Japan Limited 36210-0100PL (Receptacle) 36310-3200-008 (Shell kit)		
		IP rating	IP20*2		
	Servo	Туре	Tyco electronics Japan G.K. 2174053-1 (Micro motor connector)		
	motor side	IP rating	IP65*2		

^{*1} This is the test result, not a guaranteed value. (The performance would change depending on 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.

8. STRUCTURAL DRAWING



9. OUTLINE DRAWING

[Unit:mm]

