Specification for General purpose AC Servo Long Bending Life Encoder cable

Type SC-J3JSCBL□M-■-H

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

Revision Drawn Check Design Approved

A 31 Mar.,2017

Send to Date Dwg

22 Mar.,2016

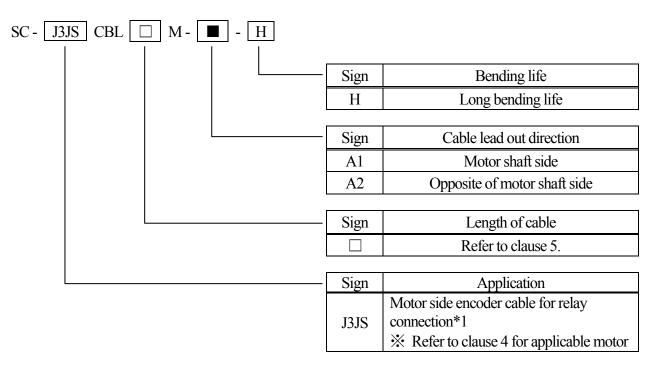
Order X903703D50052-E10A

1. SCOPE

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

- · SC-J3JSCBL□M-■-H
- * This cable doesn't include the toxic substances in RoHS (Lead, Mercury, Cadmium, Hexavalent Chromium, PBDE, PBB).
- 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

UL758 AWM STYLE 2517 (wire part)

4. APPLICABLE SERVO MOTOR

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

5. LENGTH OF CABLE

1 to 5m Specified by 1m unit

6. CABLE LENGTH FOR RELAY CONNECTION

	Total aabla lanath		
Amplifier side	Motor side	Total cable length	
SC-J3ENSCBL□M-L	SC-J3JSCBL□M- ■ -H	1m or less	50m or less
SC-J3ENSCBL□M-H	5C-J3J5CBL□IVI-■-H	2∼5m	40m or less
SC-J3ENSCBL□M-S	SC-J3JSCBL□M-■-H	4m or less	20m or less
SC-J3ENS4CBL□M-H	SC-J3JSCBL□M-■-H	1m or less	100m or less
		2∼5m	80m or less

7. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-J3JSCBL□M-■-H ×××××××

- $\not \times$ \square is a figure from 1 to 5.
- is cable lead out direction from A1, A2.

 is cable lead out direction from A1, A2.

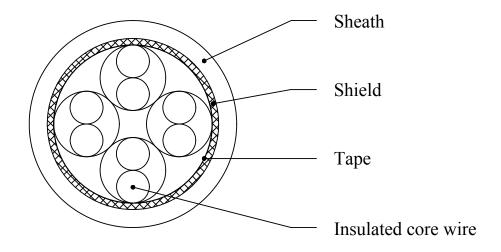
8. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification		
Structure		_	AWG25×4P		
Conductor	Conductor size		_	AWG25	
	Outer diameter		mm	Approx. 0.58	
Material Material		_	ETFE		
Insulation Outer diameter		mm	Approx. 0.98		
Twisted pair Number of insulated core wire		_	2C		
	Outer diameter		mm	2.0	
Twisted	Number of pairs		_	4P	
Shield	Material		_	Tin coated copper braid	
Material Material			_	Flame resisting PVC	
Sheath	color	color		Black	
Overall diameter		mm	Approx. 7.0		
Electrical			$M\Omega \cdot km$	Over 100	
characteristics			V/for 1min	AC500	
Operating temperature range		$^{\circ}\mathbb{C}$	-10~+60 (without condensation)		
Minimum Bend Radius		mm	6 times the overall diameter		
Bending life		_	Over 1 million times *1 (bend radius 45mm)		
Flame Retardant		_	UL1581 VW-1		
Connector	Servo amplifier side	Туре	DDK Ltd. CM10-CR10P-M (Cable receptacle) or CMV1-CR10P-M2 (Cable receptacle)		
		IP rating	IP67*2		
	Servo motor side	Type	Tyco Electronics Japan 2174053-1 (Micro motor connector)		
		IP rating	IP65*2		

^{*1} This is the only test result, not guaranteed value. (The performance would be different depends on environment they are used.)

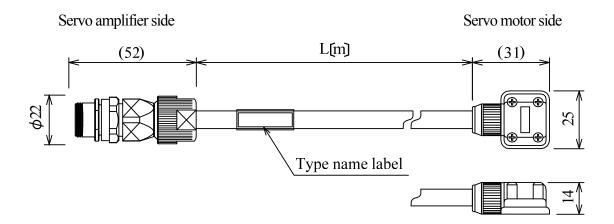
^{*2} The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

9. STRUCTURAL DRAWING



10.OUTLINE DRAWING

[Unit:mm]



11. SYSTEM CONFIGURATION DIAGRAM

