Specification for General purpose AC Servo Long Bending Life Encoder cable

Type SC-J3JCBL□M-■-H

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

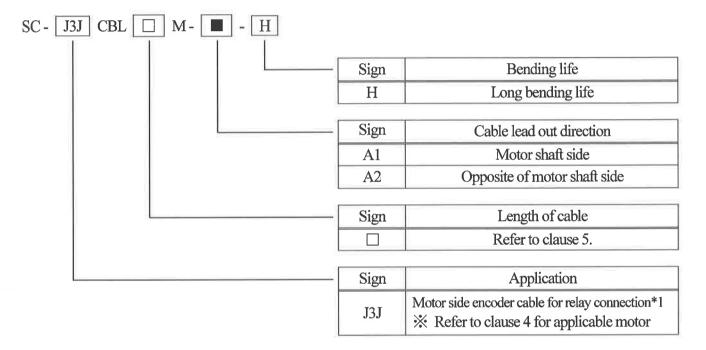
Rev	Revision		Check	Design	Approved
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Se	Send to		ate	D	wg
		22 Mar.,2016 Order		X903703D50052-E08	

1. SCOPE

This specification covers the requirements for the General purpose AC Servo Long Bending Life Encoder cable type SC-J3JCBL \square M- \blacksquare -H.

- ** This cable doesn't include the toxic substances in RoHS (Lead, Mercury, Cadmium, Hexavalent Chromium, PBDE, PBB).
- * 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

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

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6. CABLE LENGTH FOR RELAY CONNECTION

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

7. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-J3JCBL \square M- \blacksquare -H $\times \times \times \times \times \times$

- is cable lead out direction from A1,A2. ■
- $\times \times \times \times \times \times \times$ are the serial number for seven digits.

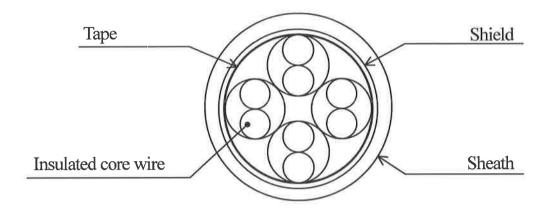
8. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification	
Structure		:	AWG25×4P	
0 1	Conductor size		<u> </u>	AWG25
Conductor	Outer diameter		mm	Approx. 0.58
T1-4:	Material		>=	ETFE
Insulation Outer diame		eter	mm	Approx. 0.98
Twisted pair	Number of insulated core wire		-	2C
p	Outer diameter		mm	2.0
Twisted	Number of pairs		-	4P
Shield	Material		5	Tin coated copper braid
Cl4l-	Material		v=0	Flame resisting PVC
Sheath	color	color		Black
Overall diameter		mm	Approx. 7.0	
Electrical	Insulation resistance		MΩ·km	Over 100
characteristics	Withstand voltage		V/for 1min	AC500
Operating temperature range			$^{\circ}\!\mathbb{C}$	-10~+60 (without condensation)
Minimum Bend Radius			mm	Over 45
Bending life			.=	Over 1 million times *1 (bend radius 45mm)
Flame Retardant			UL1581 VW-1	
Connector	Servo amplifier	Туре	Tyco Electronics Japan 1-172169-9 (Plug) 316454-1 (Cable clump)	
	side	IP rating	IP20*2	
	Servo motor side	Туре	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.)

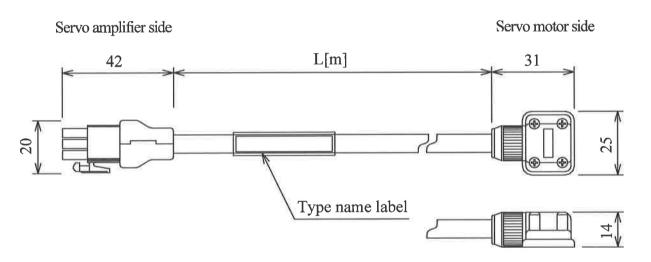
^{*2} The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

9. STRUCTURAL DRAWING



10.OUTLINE DRAWING

[Unit:mm]



11. SYSTEM CONFIGURATION DIAGRAM

