Specification for General purpose AC Servo Long Bending Life Encoder cable

Type SC-J3ENCBL□M-■-H

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

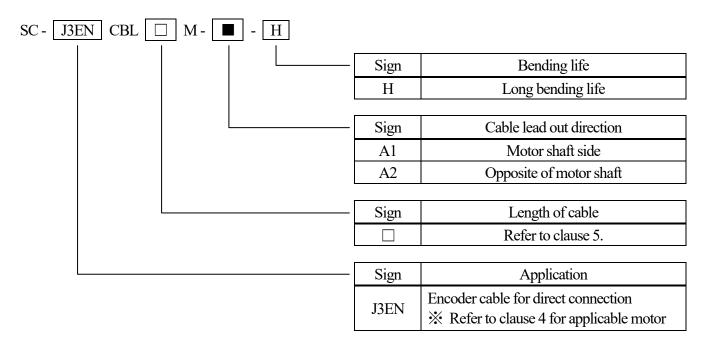
Revision Check Design Drawn Approved 22 Mar.,2016 2 Jun.,2021 A D n. Ito I. Janja 3. Kawahana D. Judushiir В 26 Mar.,2018 21 Aug.,2019 C Send to Date Dwg 17 June,2013 Order X903703D50052-E07D

1. SCOPE

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

- SC-J3ENCBL□M-■-H
- * 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

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

5. LENGTH OF CABLE

1 to 10m Specified by 1m unit

6. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-J3ENCBL \square M- \blacksquare -H $\times \times \times \times \times \times$

- % \square is a figure from 1 to 10.
- is cable lead out direction from A1, A2.

 is cable lead out direction from A1, A2.

7. STRUCTURE AND CHARACTERISTICS

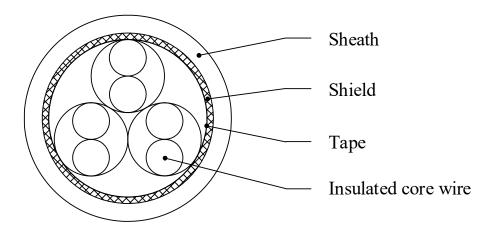
	Item		Unit	Specification
Structure			_	AWG22×3P
Conductor	Conductor size		_	AWG22
Conductor	Outer diameter		mm	Approx. 0.8
Lumilation	Material		_	ETFE
Insulation	Outer diameter		mm	Approx. 1.2
Twisted pair	Number of insulated core wire		_	2C
_	Outer diameter		mm	Approx. 2.4
Twisted	Number of pairs		_	3P
Shield	Material		_	Tin coated copper braid
Sheath*3	Material			Flame resisting PVC
Sneam	color		_	Black
Overall diameter			mm	Approx. 7.2
Cable weight			kg/km	75
Electrical	Insulation resistance		$M\Omega \cdot km$	Over 100
characteristics	Withstand voltage		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: Minimum bend radius)
Flame Retardant			_	UL1581 VW-1
Connector	Servo amplifier side	Туре	Molex Japan Co., Ltd. 54599-1016 (Connector set) or 3M Japan Limited. 36210-0100PL (Receptacle) 36310-3200-008 (Shell kit)	
		IP rating	IP20*2	
	Servo motor side	Туре	Tyco Electronics Japan G.K. 2174053-1 (Micro motor connector)	
	motor side	IP rating	IP65*2	

^{*1} This is only the 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.

^{*3} Please note that the silk printing of the cable sheath varies depending on the manufacturer.

8. STRUCTURAL DRAWING



9. OUTLINE DRAWING

[Unit:mm]

