Specification for General purpose AC Servo Long Distance Encoder cable

Type SC-J3ENSJ4CBL□M-■-H

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

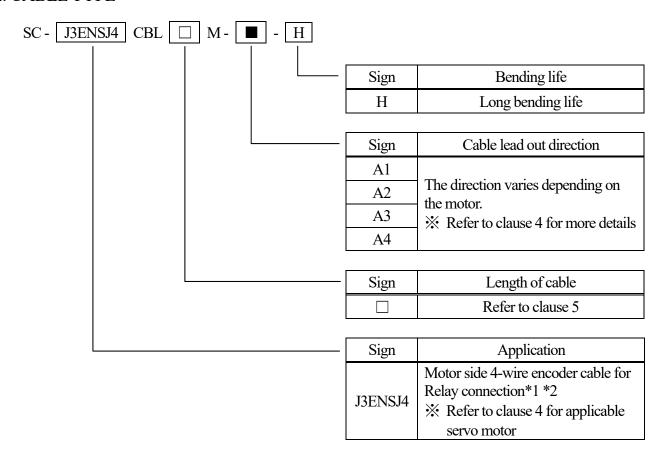
Design Revision Drawn Check Approved 31 Mar.,2017 n. Shii I Lawya m. awanwa D. Subushin B 5 Sept.,2018 Send to Date Dwg 22Mar.,2016 Order X903703D50052-E65B

1. SCOPE

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

- SC-J3ENSJ4CBL□M-■-H
- ** This cable doesn't include the toxic substances in RoHS (Lead, Mercury, Cadmium, Hexavalent Chromium, PBDE, PBB).
- X 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.
- *2 This cable 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

UL758 AWM STYLE 20276 (wire part)

4. APPLICABLE SERVO MOTOR

Important matter

Depending on the situation such as installation environment or combination of power supply cable and electromagnetic brake cable, there is a chance not to complete installation. Please make sure the cable lead out direction before your purchase.

Calala land and dimention
Cable lead out direction View from cable insertion direction)
2 A 4 A3
se confirm above mentioned important ter when selecting cable lead out direction.
A1 A2 A2 A2 A2 A2 A2 A2 A2 A2
t t

5. LENGTH OF CABLE

1 to 85m Specified by 1m unit

6. LENGTH OF CABLE FOR RELAY CONNECTION

Comb	Total calala lawath	
Amplifier side	Motor side	Total cable length
SC-J3ENS4CBL□M-H	SC-J3ENSJ4CBL□M-■-H	90m or less

7. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-J3ENSJ4CBL \square M- \blacksquare -H $\times \times \times \times \times \times \times$

- % \square is a figure from 1 to 85.
- is cable lead out direction from A1,A2,A3,A4. ■
- $\times \times \times \times \times \times \times \times$ are the serial number for seven digits.

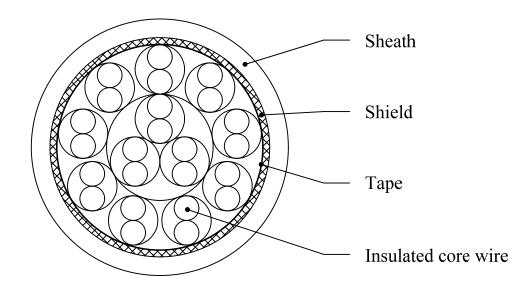
8. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification	
Structure		_	AWG25×12P	
Conductor	Conductor size		_	AWG25
Conductor	Outer diameter		mm	Approx. 0.58
Lumilation	Material		_	ETFE
Insulation	Outer diameter		mm	Approx. 0.88
Twisted pair	Number of insulated		_	2C
	core wire			
	Outer diameter		mm	Approx.1.8
Twisted	central laye	er	_	3P
	the first lay	ver er	_	9P
Shield	Material		_	Tin coated copper braid
Sheath	Material		_	Flame resisting PVC
Silcaui	Color		_	Black
Overall diameter	Overall diameter		mm	Approx. 8.9
Electrical	Insulation	resistance	$M\Omega \cdot km$	Over 100
characteristics	Withstand voltage		V for1minute	AC500
Operating temp	Operating temperature range		$^{\circ}\!\mathbb{C}$	-10~+60 (without condensation)
Minimum Radi	Minimum Radius Bend		mm	6 times the overall diameter
Bending Life		_	Over one million times ^{*1} (Bending radius : Minimum bend radius)	
Flame Retardar	nt		_	UL1581 VW-1
Connector	Servo Type amplifier side		or	0P-M (Cable receptacle) 10P-M2 (Cable receptacle)
	Side	IP rating	IP67*2	
	Servo motor side	Туре	DDK Ltd. CM10-AP10S-M (D6) (Angle plug) or CMV1-AP10S-M2 (Angle plug)	
*1 It is a test		IP rating	IP67*2	he performance is different according to

^{*1} It is a test outcome, and not a guaranteed value. (The performance is different according to 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.

9. STRUCTURAL DRAWING



10. OUTLINE DRAWING

Servo amplifier side

Servo motor side

Type name label

[Unit : mm]

(45)

(45)

(421)

11. SYSTEM CONFIGURATION DIAGRAM

