Specification for General purpose AC Servo Encoder cable

Type SC-J3ENSCBL□M-■-L

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

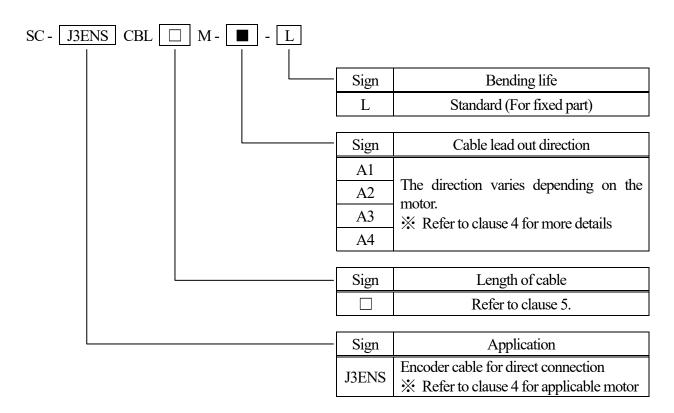
Revision				Drawn	Check	Design	Approved
A	22 Mar.,2016	D	19 Aug.,2021			100	
B 31 Mar.,2017				n. Sto	L'Herrisa	3 Kacahara	A Sudjeshin
С	2 Aug.,2018			7.0	///	3.8	or, just
	Send to			Date		Dwg	
				17 Jun	e.,2013		
				Order		X903703D50052-E05D	

1. SCOPE

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

- SC-J3ENSCBL□M-■-L
- * 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.	Ra	ted
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

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.

our difference your purchase.					
Applicable motor	Cable lead out direction (View from cable insertion direction)				
HG-SR, HG-RR, HG-UR series motor HG-JR53, 73, 103, 153, 203, 353, 503, 703, 903, 534, 734, 1034, 1534, 2034, 3534, 5034, 7034, 9034 motor HF-SP, HC-LP, HC-RP, HC-UP series motor HA-LP502, 702 motor HF-JP53, 73, 103, 153, 203, 353, 503, 703, 903, 534, 734, 1034, 1534, 2034, 3534, 5034, 7034, 9034 motor	A2 Please confirm above mentioned important matter when selecting cable lead out direction.				
HA-LP series motor ** Except for HA-LP502, HA-LP702	Please confirm above mentioned important matter when selecting cable lead out direction.				

5. LENGTH OF CABLE

1 to 50m Specified by 1m unit

6. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-J3ENSCBL \square M- \blacksquare -L $\times \times \times \times \times \times \times$

- % \square is a figure from 1 to 50.
- 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.

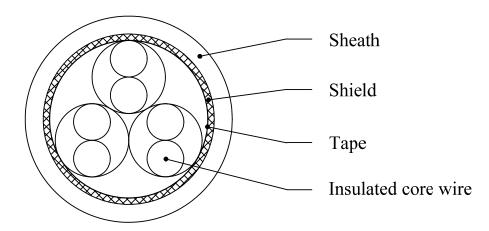
7. STRUCTURE AND CHARACTERISTICS

Itam			T I '4	Specification		
	Item		Unit	1∼10m	11~50m	
Structure			_	AWG22×3P	AWG23×6P	
Con tooks	Conductor	size	_	AWG22	AWG23	
Conductor	Outer dian	neter	mm	Approx. 0.8	Approx. 0.7	
T.,1.41	Material		_	PVC		
Insulation	Outer dian	neter	mm	Approx. 1.2	Approx. 1.3	
Twisted pair	Number of insulated core wire		_	2C	2C	
1	Outer diameter		mm	Approx. 2.3	Approx.	
Twisted Number		pairs	_	3P	6P	
Shield	Shield Material		_	Tin coated copper braid		
Clearth	Material		_	Flame resisting PVC		
Sheath	Color		_	Black		
Overall diameter	er		mm	Approx. 7.1	Approx. 8.2	
Cable weight			kg/km	75	95	
Electrical	Insulation resistance		$M\Omega \cdot km$	Over 10		
characteristics	Withstand	voltage	V for1minute	AC500		
Operating temp	erature range	;	$^{\circ}\!\mathbb{C}$	-10~+60 (without condensation)		
Minimum Bend	d Radius		mm	6 times the overall diameter		
Flame Retardar	nt		_	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)			
Connector		IP rating	IP20*1			
	Servo motor side	Туре	DDK Ltd. CM10-AP10S-M (D6) (Angle plug) or CMV1-AP10S-M2 (Angle plug)			
	na indicated i	IP rating	IP67*1			

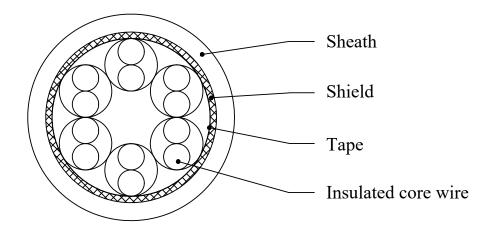
^{*1} The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

8. STRUCTURAL DRAWING

(1) 1~10m



(2) 11~50m



9. OUTLINE DRAWING

[Unit:mm]

