



## 1. SCOPE

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

- SC-J3ENSJCBL□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

SC - J3ENSJ CBL □ M - L

J3ENSJ	Sign	Bending life
	L	Standard (For fixed part)
□	Sign	Length of cable
	□	Refer to clause 5.
J3ENSJ	Sign	Application
	J3ENSJ	Motor side Encoder cable for relay connection*1 ※ Refer to clause 4 for applicable motor

\*1 Please use it with amplifier side encoder cable.

Refer to clause 6 for confirming the combination and cable length.

## 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

HG-SR, HG-RR, HG-UR series motor

HG-JR53, 73, 103, 153, 203, 353, 503,

534, 734, 1034, 1534, 2034, 3534, 5034 motor

HF-SP, HC-LP, HC-RP, HC-UP, HA-LP series motor

HF-JP53, 73, 103, 153, 203, 353, 503,

534, 734, 1034, 1534, 2034, 3534, 5034 motor

### 5. LENGTH OF CABLE

1 to 39m Specified by 1m unit

### 6. CABLE LENGTH FOR RELAY CONNECTION

Combination		Total cable length
Amplifier side	Motor side	
SC-J3ENSCBL□M-L SC-J3ENSCBL□M-H	SC-J3ENSJCBL□M-L	40m or less
SC-J3ENSCBL□M-S      15m or less		25m or less

### 7. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-J3ENSJCBL□M-L    ×××××××

※ □ is a figure from 1 to 39.

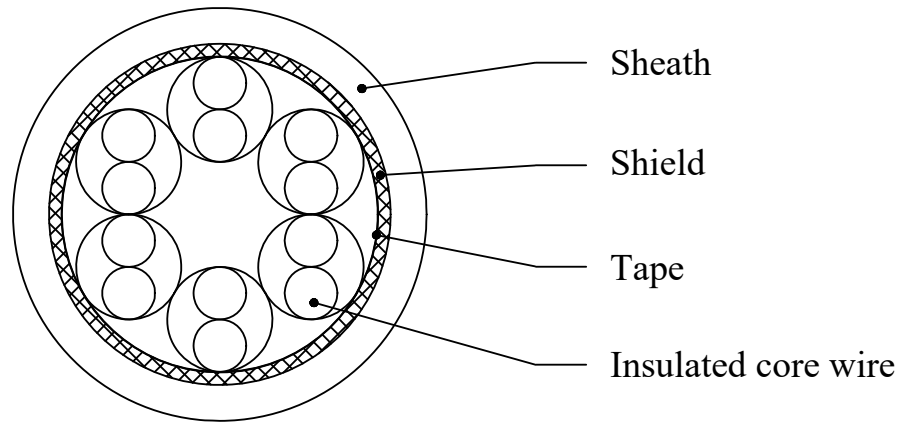
※ ××××××× are the serial number for seven digits.

## 8. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification
Structure		—	AWG23×6P
Conductor	Conductor size	—	AWG23
	Outer diameter	mm	Approx. 0.7
Insulation	Material	—	PVC
	Outer diameter	mm	Approx. 1.3
Twisted pair	Number of insulated core wire	—	2C
	Outer diameter	mm	Approx. 2.4
Twisted	Number of pairs	—	6P
Shield	Material	—	Tin coated copper braid
Sheath	Material	—	Flame resisting PVC
	color	—	Black
Overall diameter		mm	Approx. 8.2
Cable weight		kg/km	95
Electrical characteristics	Insulation resistance	MΩ · km	Over 10
	Withstand voltage	V/for 1min	AC500
Operating temperature range		°C	-10~+60 (without condensation)
Minimum Bend Radius		mm	6 times the overall diameter
Flame Retardant		—	UL1581 VW-1
Connector	Servo amplifier side	Type	DDK Ltd. CMV1-CR10P-M2 (Cable receptacle)
		IP rating	IP67*1
	Servo motor side	Type	DDK Ltd. CMV1-SP10S-M2 (Straight plug)
		IP rating	IP67*1

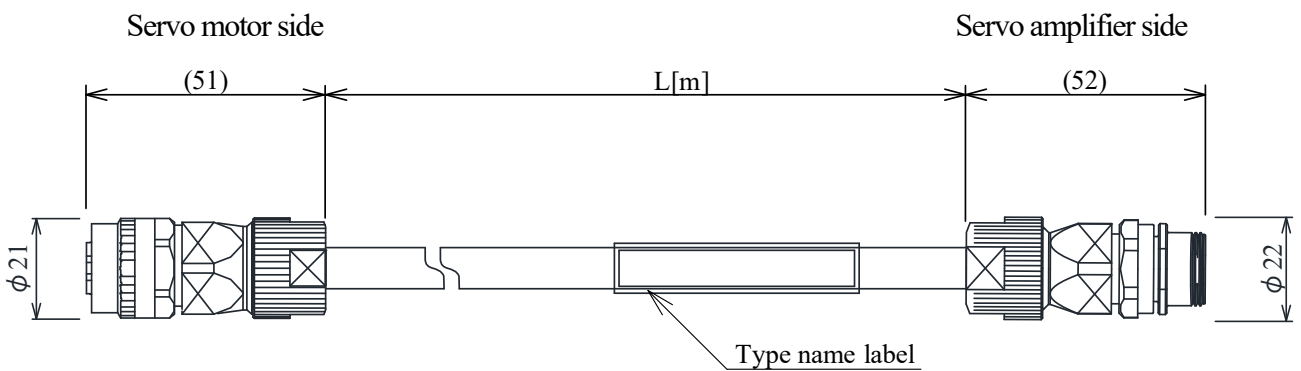
\*1 The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

### 9. STRUCTURAL DRAWING



### 10. OUTLINE DRAWING

[Unit : mm]



### 11. SYSTEM CONFIGURATION DIAGRAM

