

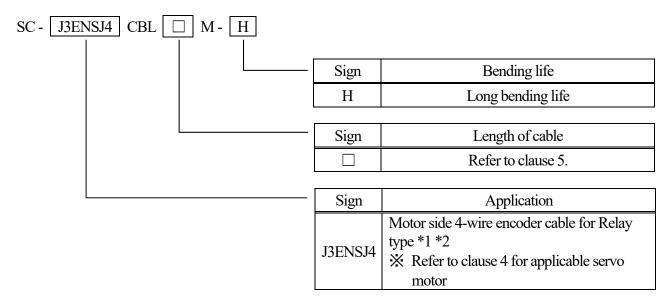
1. SCOPE

This specification covers the requirements for the General purpose AC Servo Long Distance Encoder cable. • SC-J3ENSJ4CBL M-H

<u>X</u> 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

Wire part : UL standard (UL 758 : AWM)

UL Style No.	Rated	
20276	80°C	30V

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 85m Specified by 1m unit

6. LENGTH OF CABLE FOR RELAY CONNECTION

Comb	Total askla lanath	
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 \Box M-H ××××××

- \approx \square is a figure from 1 to 85.

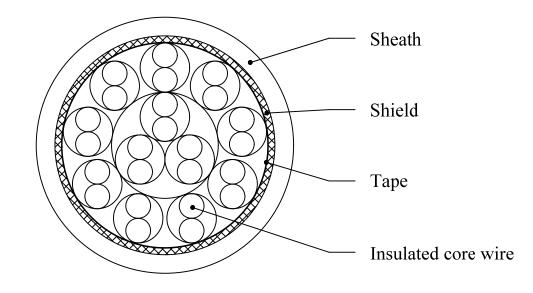
Item		Unit	Specification	
Structure		—	AWG25×12P	
Conductor		size	—	AWG25
Conductor	Outer dian	neter	mm	Approx. 0.58
Insulation			—	ETFE
Insulation	Outer dian	neter	mm	Approx. 0.88
Twisted pairNumber of insulated core wire		_	2C	
1	Outer dian	neter	mm	Approx.1.8
Twisted	central layer		—	3P
	the first layer		—	9P
Shield	Material		—	Tin coated copper braid
Sheath	Material		—	Flame resisting PVC
	Color		—	Black
Overall diameter		mm	Approx. 8.9	
Electrical	Insulation resistance		MΩ · km	Over 100
characteristics	Withstand voltage		V for1minute	AC500
Operating temperature range		°C	$-10 \sim +60$ (without condensation)	
Minimum Radius Bend			mm	6 times the overall diameter
Bending Life			_	Over one million times ^{*1} (Radius Bend : Minimum bend radius)
Flame Retardant		—	UL1581 VW-1	
Connector -	Servo amplifier	Туре	DDK Ltd. CMV1-CR	10P-M2 (Cable receptacle)
	side	IP rating	IP67 ^{*2}	
	Servo motor side	Туре	DDK Ltd. CMV1-SP10S-M2 (Straight plug)	
		IP rating	IP67*2	

8. STRUCTURE AND CHARACTERISTICS

*1 It is a test outcome, and not a guaranteed value. (The performance is different according to customer's environment.)

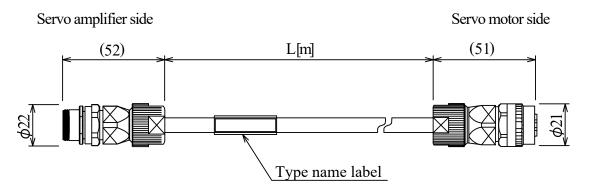
*2 The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

9. STRUCTURAL DRAWING



10. OUTLINE DRAWING

[Unit:mm]



11. SYSTEM CONFIGURATION DIAGRAM

