Specification for

General purpose AC Servo

Encoder cable

Type SC-AENSCBL□M-L

# MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

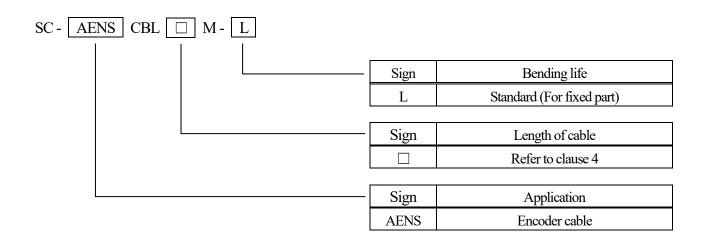
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			24 Apr., 2019 Order		X953503D70003-E33		

#### 1. SCOPE

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

- SC-AENSCBL□M-L
- <u>\*\* The Products covered in this specification don't include the toxic substances in RoHS2 (Lead, Mercury, Cadmium, Hexavalent Chromium, PBDE, PBB, HBCDD, DEHP, BPP, DBP).</u>
- \* UL's Wiring Harnesses Traceability program provides traceability for this cable.

#### 2. CABLE TYPE



#### 3. APPLICABLE STANDARDS

Wire part: UL standard (UL 758: AWM)

UL Style No.	Rat	Rated		
20276	80°C	30V		

#### 4. LENGTH OF CABLE

1 to 29 m

\* For 2m, 5m, 10m, 20m and 30m products, please purchase from Mitsubishi Electric Corporation.

#### 5. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-AENSCBL□M-L ××××××

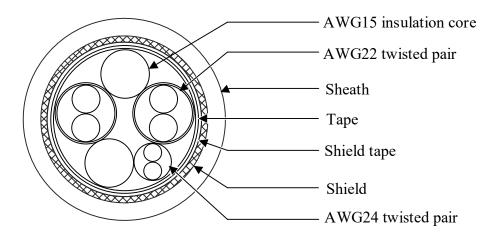
- $\times$   $\square$  is a figure from 1 to 29.(Except for 2m, 5m, 10m and 20m)
- \* ×××××× are the serial number for seven digits.

### 6. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification			
Structure		_	AWG15×2C+AWG22×2P+AWG24×1P			
Conductor	Conductor size	_	AWG15	AWG22	AWG24	
Conductor	Outer diameter	mm	Approx.1.9	Approx.0.8	Approx.0.6	
Insulation	Material	_	Special elastomer	PE	Special elastomer	
	Outer diameter	mm	Approx.2.5	Approx.1.4	Approx.1.0	
Twisted pair	Number of insulated core wire	_	_	2C	2C	
	Outer diameter	mm	_	Approx.2.8	Approx.2.0	
Twisted	Number of pairs	_	_	2P	1P	
	Number of insulated core wire	_	2C	_	_	
Shield Material		_	Tin coated copper braid			
C1 .1	Material	_	Flame resisting PVC			
Sheath	color	_	Black			
Overall diameter		mm	Approx. 8.6			
Electrical characteristics	Insulation resistance	MΩ · km	Over 100			
	Withstand voltage	V / for 1 min	AC500			
Onaratina tampa			-10~+60			
Operating temperature range		°C	(without condensation)			
Minimum bend	Minimum bend radius		6 times the overall diameter			
Flame retardant		_	UL1581 VW-1			
Connector						
Amplifier side		Туре	Molex Japan Co., Ltd. 54599-1016 (Connector set)			
		IP rating	IP20*1			
Motor side		Туре	DDK Ltd. CMV1-SP10S-M2 (Straight plug)			
		IP rating	IP67*1			

<sup>\*1</sup> 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.

## 7. STRUCTURAL DRAWING



## 8. OUTLINE DRAWING

[Unit:mm]

