)

Type SC-AENSJCBL□M-H

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

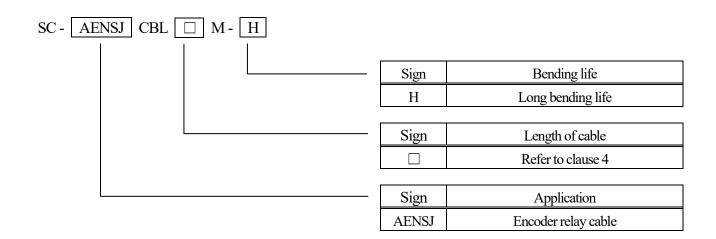
Revision						Drawn	Check	Design	Approved
						N.Ito	S.Kariya	T.Kasahara	D.Fukushima
	Send to					Date		Dwg	
						6 Sep.,2022 Order			
								X953503D	X953503D70003-E80

1. SCOPE

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

- SC-AENSJCBL□M-H
- * The Products covered in this specification don't include the toxic substances in RoHS.
- * 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.	Ra	ted
20276	80°C	30V

4. APPLICABLE SERVO MOTOR / LENGTH OF CABLE

1 to 50m

**Refer to the CABLE SELECTION TABLE "R9535021-018028-015" for applicable motors, connection cables and total cable length.

5. EXAMPLE OF PRINTING CABLE TYPE NAME

 $SC-AENSJCBL \square M-H \times \times \times \times \times \times$

- \times \square is a figure from 1 to 50.
- ※ ×××××× are the serial number for seven digits.

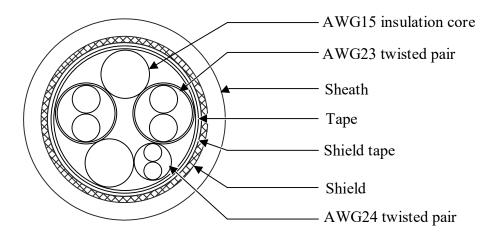
6. STRUCTURE AND CHARACTERISTICS

	Ite	em	Unit	Specification				
W	Wire							
	Structure		_	AWG15×2C+AWG23×2P+AWG24×1P				
	Conductor	Conductor size	1	AWG15	AWG23	AWG24		
	Conductor	Outer diameter	mm	Approx.2.0	Approx.0.8	Approx.0.7		
	Insulation	Material		Special elastomer	Cross-linked PE	Special elastomer		
		Outer diameter	mm	Approx.2.4	Approx.1.6	Approx.1.0		
	Twisted pair	Number of insulated core wire	_	_	2C	2C		
		Outer diameter	mm		Approx.3.0	Approx.1.8		
		Number of pairs	_	_	2P	1 P		
	Twisted	Number of insulated core wire		2C	_	_		
	Shield	Material		Tin coated copper braid				
	C1 4	Material	_	Flame resisting PVC				
	Sheath	color		Black				
	Overall diameter Cable weight		mm	Approx. 8.7				
			kg/km	120				
	Electrical characteristics	Insulation resistance	MΩ · km	Over 100				
		Withstand voltage	V / for 1 min	AC500				
	Minimum bend	radius	mm	6 times the overall diameter				
	Bending life		1	Over 1 million times*1(by Minimum bend radius)				
	Flame retardant		_	UL1581 VW-1				
Co	onnector							
	Amplifier side		Type IP rating	DDK Ltd. CMV1-CR10P-M2 (Cable receptacle) IP67*2				
-	Motor side		Туре	DDK Ltd. CMV1-SP10S-M2 (Straight plug)				
			IP rating	IP67*2				
Ca	able harness							
		Ambient temperature	°C	0 to 60 (Without freezing)				
	Environment	Ambient humidity	%RH	5 to 95 (Without condensation)				
		Ambience	_	Indoors (no direct sunlight), no corrosive gas, inflammable gas, oil mist, or dust		e gas,		
	Electrical	Insulation resistance	MΩ · km	Over 10				
	characteristics	Withstand voltage	V / for 1 min	AC500 (The performance is different according to existence of the second of the secon				

^{*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.

7. STRUCTURAL DRAWING



8. OUTLINE DRAWING

[Unit:mm]

