Specification for General purpose AC Servo Encoder / Power supply cable

Type SC-AEP3J2C0.3M-■-L

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

Re	Drawn	Check	Design	Approved	
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Se	Send to		ate	D	wg
		24 Ap	24 Apr., 2019 Order		
		Or			X953503D70003-E04

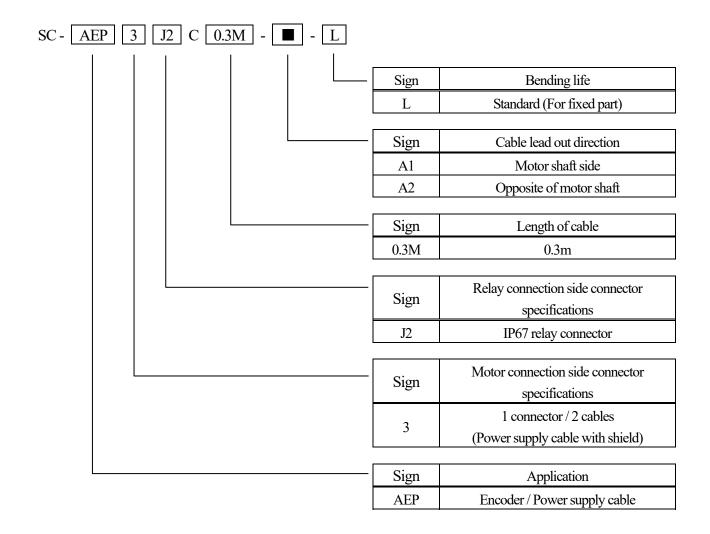
1. SCOPE

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

• SC-AEP3J2C0.3M-■-L

- <u>X</u> The Products covered in this specification don't include the toxic substances in RoHS (Lead, Mercury, Cadmium, Hexavalent Chromium, PBDE, PBB).
- * UL's Wiring Harnesses Traceability program provides traceability for this cable.

2. CABLE TYPE



3. APPLICABLE STANDARDS

Wire part: UL standard (UL 758: AWM)

Application department	UL Style No.	Rated	
Encoder cable side	20276	80°C	30V
Power supply cable side	2586	105°C	600V

4. LENGTH OF CABLE

0.3m

5. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-AEP3J2C0.3M-■-L ×××××××

- \times is cable lead out direction from A1, A2.
- \times ×××××× are the serial number for seven digits.

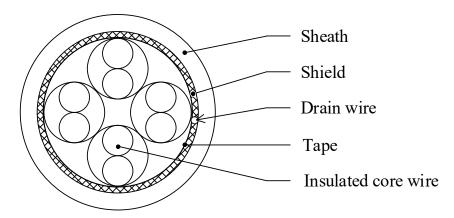
6. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification		
			For encoder	For power supply	
Structure		_	AWG24×4P	AWG18×4C	
Conductor –	Conductor size	_	AWG24	AWG18	
	Outer diameter	mm	Approx.0.6	Approx.1.3	
Insulation -	Material	_	PVC	ETFE	
	Outer diameter	mm	Approx.1.1	Approx.1.8	
Twisted pair	Number of insulated core wire	_	2C	_	
	Outer diameter	mm	2.2	_	
	Number of pairs	_	4P	_	
Twisted	Number of insulated core wire	_	_	4C	
Drain wire	•		Tin coated copper wire	_	
Shield	Shield Material		Tin coated copper braid	Tin coated copper braid	
~1	Material	_	Flame resisting PVC	Flame resisting PVC	
Sheath	color	_	Black	Black	
Overall diame	ter	mm	Approx. 7.5	Approx. 7.5	
Electrical	Insulation resistance	MΩ · km	Over 10	Over 100	
characteristics	Withstand voltage	V / for 1 min	AC500	AC1800	
Operating temperature range		°C	-10~+60 (without condensation)	-10~+60 (without condensation)	
Minimum bend radius		mm	6 times the overall diameter	6 times the overall diameter	
Flame retarda	Flame retardant		UL1581 VW-1	UL1581 VW-1	
Connector		<u> </u>			
	Encoder side	Туре	DDK Ltd. CMV1-CR10P-M2 (Cable receptacle)		
Amplifier side		IP rating	IP67*1		
	Power supply side Type		DDK Ltd. D/MS3101A18-10P(D263) (Cable receptacle) CE02-18BS-S-D (Waterproof straight back shell) CE3057-10A-3-D (Cable clamp)		
		IP rating	IP67*1		
Motor side		Туре	Hirose Electric Co., Ltd. MT50W-8D/2D4ES-CVLD(7.5) (Connector set)		
		IP rating	IP65*1		

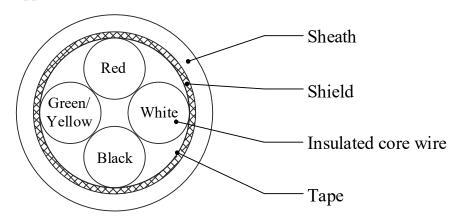
^{*1} The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

7. STRUCTURAL DRAWING

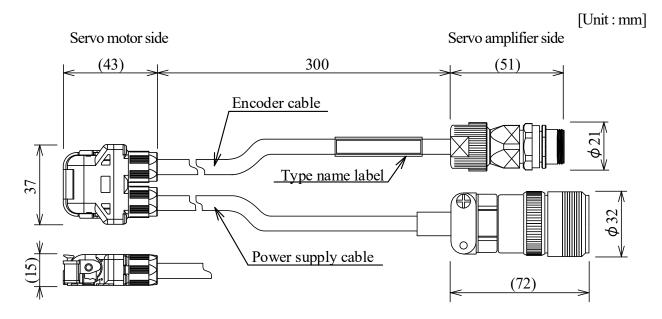
7.1. For encoder



7.2. For power supply



8. OUTLINE DRAWING



** This outline drawing is for the cable lead out direction "A1".

The cable lead out direction "A2" reverses the position of the encoder cable and the power supply cable.