Specification for General purpose AC Servo Encoder / Power supply brake cable

Type SC-AEPB3J2C0.3M-■-L

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

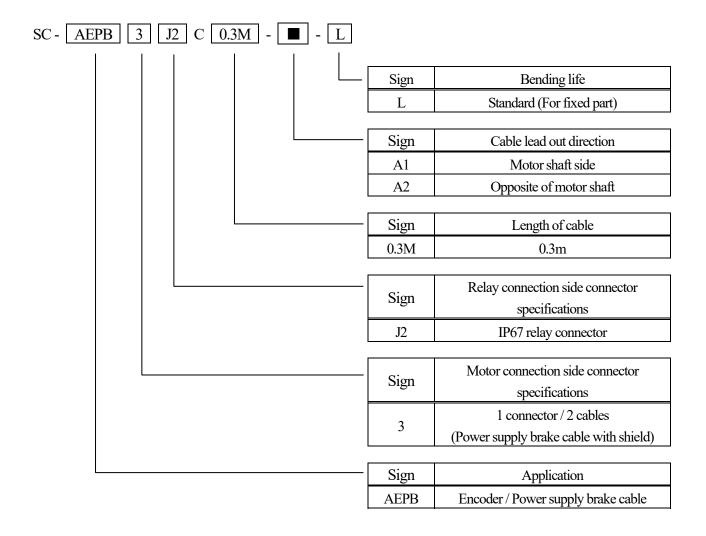
Revision			Check	Design	Approved
		n.Jshii	J. Pariya	4 minenaga	D. Jubushin
Send to		Date		Dwg	
		24 Apı	r., 2019		
		Order		X953503D70003-E01	

1. SCOPE

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

- SC-AEPB3J2C0.3M-■-L
- ** The Products covered in this specification don't include the toxic substances in RoHS (Lead, Mercury, Cadmium, Hexavalent Chromium, PBDE, PBB).

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 / brake cable side	2586	105℃	600V

4. LENGTH OF CABLE

0.3m

5. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-AEPB3J2C0.3M-■-L ×××××××

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

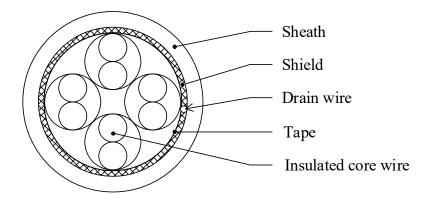
6. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification			
			For encoder	For power supply / brake		
Structure		_	AWG24×4P	AWG18×4C+AWG24×2		
Conductor	Conductor size	_	AWG24	AWG18	AWG24	
	Outer diameter	mm	Approx.0.6	Approx.1.3	Approx.0.6	
Insulation	Material	_	PVC	ETFE		
	Outer diameter	mm	Approx.1.1	Approx.1.8	Approx.1.0	
Twisted pair Number of insulated core wire		_	2C	_		
	Outer diameter	mm	2.2	_		
	Number of pairs	_	4P	_	_	
Twisted	Number of insulated core wire	_	-	4C	2C	
Drain wire		_	Tin coated copper wire			
Shield	Material	_	Tin coated copper braid	Tin coated copper braid		
Sheath	Material	_	Flame resisting PVC	Flame resisting PVC		
Sneam	color	_	Black	Black		
Overall diameter	r	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 diame		
Flame retardant		_	UL1581 VW-1	UL1581 VW-1		
Connector						
	Encoder side	Туре	DDK Ltd. CMV1-CR10P-M2 (Cable receptacle)			
Amplifier side		IP rating	IP67*1			
	Power supply/ brake side	Туре	DDK Ltd. D/MS3101A22-23P(D263) (Cable receptacle) CE02-22BS-S-D (Waterproof straight back shell CE3057-12A-3-D (Cable clamp)		1 /	
		IP rating	IP67*1			
Motor side		Туре	Hirose Electric Co., Ltd. MT50W-8D/2D4ES-CVLD(7.5) (Connector set)			
		IP rating	IP65*1			

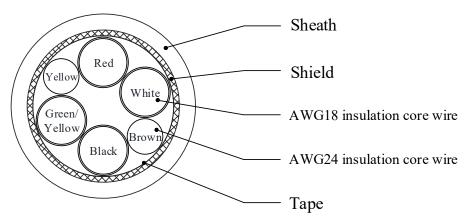
^{*1} The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

7. STRUCTURAL DRAWING

7.1. For encoder

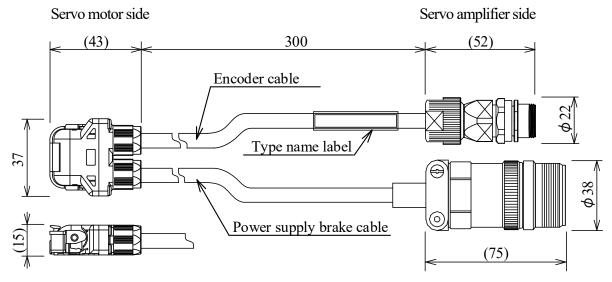


7.2. For power supply / brake



8. OUTLINE DRAWING

[Unit:mm]



* 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 brake cable.