Specification for General purpose AC Servo Long Bending Life Power supply cable

Type SC-PWS4CBL□M-LH

MITSUBISHI ELECTRIC SYSTEM & SERVICE CO.,LTD

Note

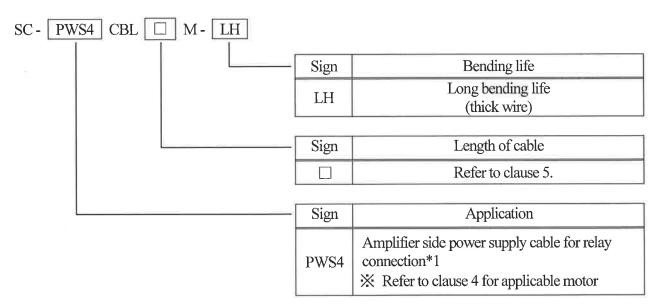
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1. SCOPE

This specification covers the requirements for the General purpose AC Servo Long Bending Life Power supply cable type SC-PWS4CBL□M-LH.

- ** 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



*1 Please use it with motor side power supply cable.

Refer to clause 6 for confirming the combination and cable length.

(Note) This cable doesn't have clamps for fixture. Please use cable ties or alternatives which can fix cable part; otherwise it might put too much stress on cables and cause disconnection.

3. APPLICABLE STANDARDS

UL758 AWM STYLE 2586 (wire part)

4. APPLICABLE SERVO MOTOR

HG-KR, HG-MR series motor HF-KN, HF-KP, HF-MP series motor

5. LENGTH OF CABLE

1 to 50m Specified by 1m unit

6. CABLE LENGTH FOR RELAY CONNECTION

Matautama nama		Total cable		
Motor type name	Amplifier side	Motor side		length
HG-KR/MR 053,13,23,43 HF-KN/KP/MP 053,13,23,43	SC-PWS4CBL□M-LH	SC-PWS4JCBL□M-■-L SC-PWS4JCBL□M-■-H		50m or less
		SC-PWS4JCBL□M-■-S		40m or less
HG-KR73 HF-KP73	SC-PWS4CBL□M-LH	SC-PWS4JCBL□M-■-L SC-PWS4JCBL□M-■-H	5m or less	25m or less
		SC-PWS4JCBL□M-■-S		15m or less
HG-MR73 HF-MP73	SC-PWS4CBL□M-LH	SC-PWS4JCBL□M-■-L		25m or less
		SC-PWS4JCBL□M-■-H		20m or less
		SC-PWS4JCBL□M-■-S		15m or less

7. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-PWS4CBL \square M-LH $\times \times \times \times \times \times$

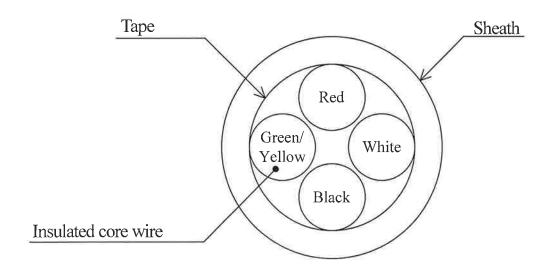
- % \square is a figure from 1 to 50.
- $\frak{*}\ \times \times \times \times \times \times \times$ are the serial number for seven digits.

8. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification	
Structure			AWG16×4C	
Conductor	Conductor size		=	AWG16
	Outer diameter		mm	Approx. 1.75
Insulation	Material		-	ETFE
	Outer diameter		mm	Approx. 2.55
Twisted pair	Number of insulated core wire		=	4C
Material Material			_	Flame resisting PVC
Sheath	color		-	Black
Overall diameter		mm	Approx. 8.3	
Electrical	Insulation resistance		MΩ·km	Over 100
characteristics	Withstand voltage		V/for 1min	AC1500
Operating temperature range		$^{\circ}\mathbb{C}$	$-10\sim+60$ (without condensation)	
Minimum Bend Radius			mm	Over 50
Bending life			-	Over 1 million times ^{*1} (bend radius: 50mm)
Flame Retardant		===	UL1581 VW-1	
	Servo amplifier side		-	
Connector	Servo motor side	Туре	Molex 5559-04	P-210 (Plug housing)
		IP rating	IP20*2	

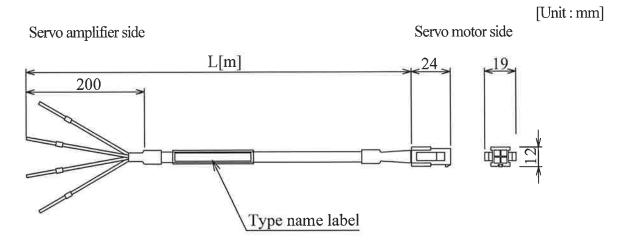
^{*1} It is a test outcome, and not a guaranteed value. (The performance is different according to customer's environment.)

9. STRUCTURAL DRAWING



^{*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.

10. OUTLINE DRAWING



11. SYSTEM CONFIGURATION DIAGRAM

