

Specification
for
General purpose AC Servo
Power supply cable

Type SC-PWS5CBL□M-LL

mitsubishi electric
system & service co.,ltd

Note

Revision				Drawn	Check	Design	Approved
A	27 Sep., 2018			<i>N. Ito</i>	<i>S. Kariya</i>	<i>M. Aizawa</i>	<i>S. Subushiro</i>
B	23 Apr., 2020						
Send to				Date		Dwg	
				27 Apr., 2016		X903703D50052-F23B	
				Order			

1. SCOPE

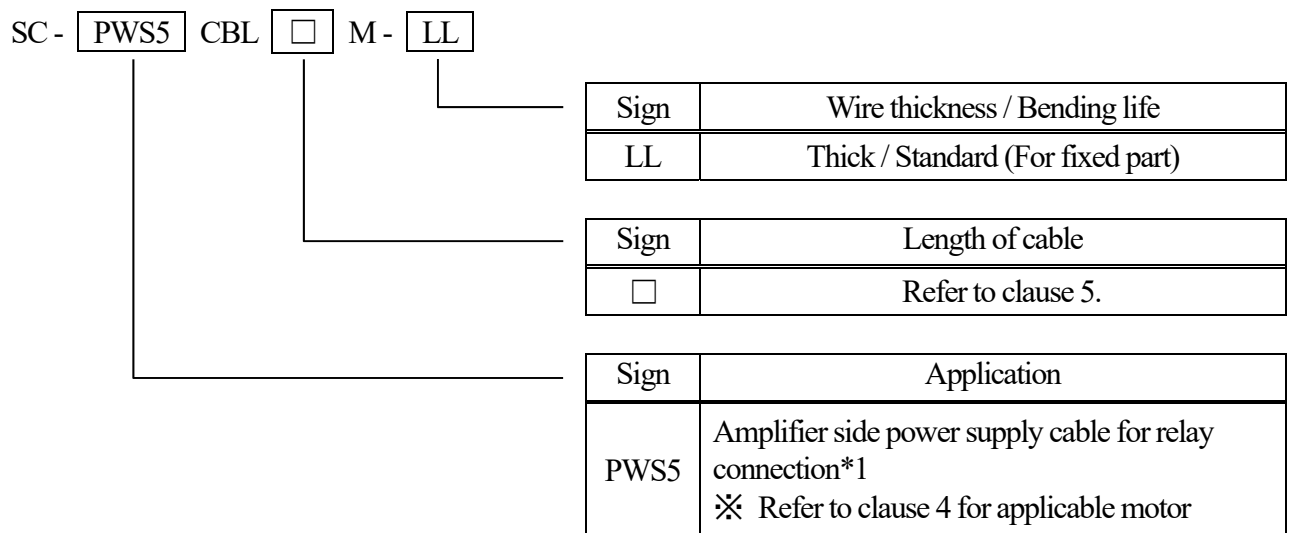
This specification covers the requirements for the General purpose AC Servo Power supply cable.

- SC-PWS5CBL□M-LL

※ 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.

3. APPLICABLE STANDARDS

Wire part : UL standard (UL 758 : AWM)

UL Style No.	Rated	
2586	105°C	600V

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

Motor type name	Combination		Total cable length
	Amplifier side	Motor side	
HG-KR/MR 053,13,23,43 HF-KN/KP/MP 053,13,23,43	SC-PWS5CBL□M-LL	SC-PWS5JCBL□M-■-L	50m or less
		SC-PWS5JCBL□M-■-H	
		SC-PWS5JCBL□M-■-S	
HG-KR73 HF-KP73	SC-PWS5CBL□M-LL	SC-PWS5JCBL□M-■-L	30m or less
		SC-PWS5JCBL□M-■-H	25m or less
		SC-PWS5JCBL□M-■-S	20m or less
HG-MR73 HF-MP73	SC-PWS5CBL□M-LL	SC-PWS5JCBL□M-■-L	25m or less
		SC-PWS5JCBL□M-■-H	15m or less
		SC-PWS5JCBL□M-■-S	

7. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-PWS5CBL□M-LL ×××××××

※ □ is a figure from 1 to 50.

※ ××××××× are the serial number for seven digits.

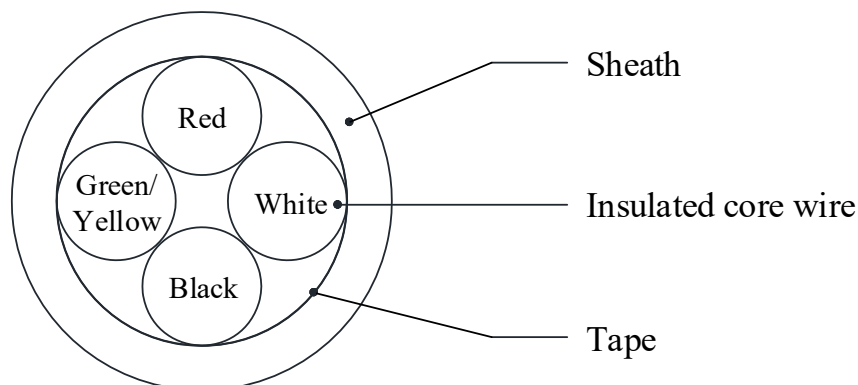
8. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification
Structure		—	AWG16×4C
Conductor	Conductor size	—	AWG16
	Outer diameter	mm	Approx. 1.53
Insulation	Material	—	PVC
	Outer diameter	mm	Approx. 3.23
Twisted pair	Number of insulated core wire	—	4C
Sheath	Material	—	Flame resisting PVC
	color	—	Black
Overall diameter		mm	Approx. 9.9
Electrical characteristics	Insulation resistance	MΩ · km	Over 10
	Withstand voltage	V/for 1min	AC1500* ²
Operating temperature range		°C	-10~+60 (without condensation)
Minimum Bend Radius		mm	6 times the overall diameter
Flame Retardant		—	UL1581 VW-1
Connector	Servo amplifier side		—
	Servo motor side	Type	Hirose Electric Co., Ltd. RM15WTJZ-4S (81) (Straight plug) JR13WCCA-10 (72) (Cord clamp)
		IP rating	IP67* ¹

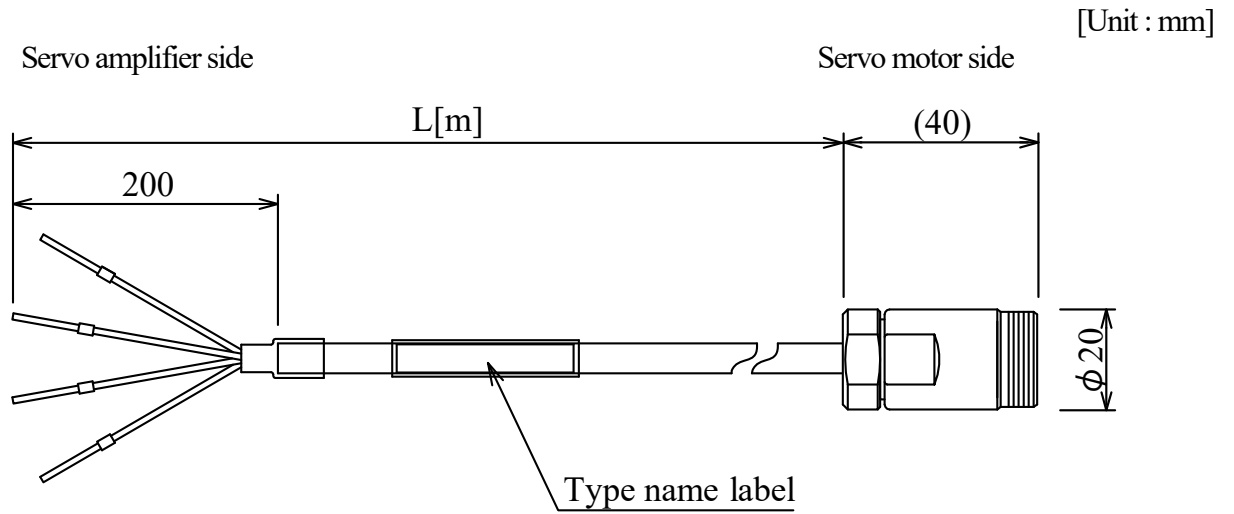
*1 The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

*2 In addition, the cable material alone is tested for a withstand voltage of 2000V / 5 minutes.

9. STRUCTURAL DRAWING



10. OUTLINE DRAWING



11. SYSTEM CONFIGURATION DIAGRAM

