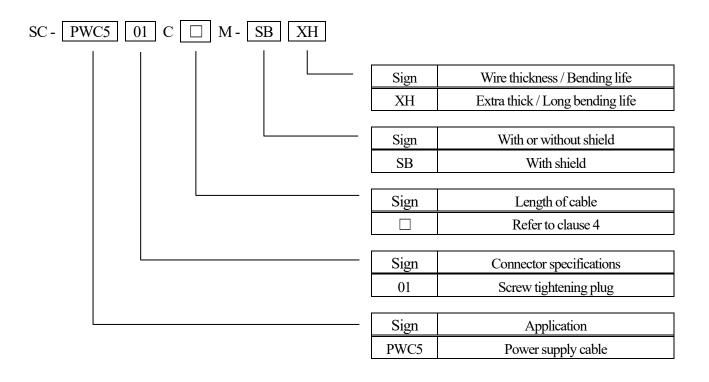


1. SCOPE

This specification covers the requirements for the General purpose AC Servo Power supply cable. • SC-PWC501C M-SBXH

- * The Products covered in this specification don't include the toxic substances in RoHS.
- <u>× UL's Wiring Harnesses Traceability program provides traceability for this cable.</u>

2. CABLE TYPE



3. APPLICABLE STANDARDS

Wire part : UL standard (UL 758 : AWM)

UL Style No.	Rated	
2586	105°C	600V

4. APPLICABLE SERVO MOTOR / LENGTH OF CABLE

1 to 100m

% The maximum cable length differs depending on the motor. Refer to the CABLE LENGTH SELECTION TABLE "R9535021-018028-010" for more information.

Refer to the CABLE SELECTION TABLE "R9535021-018028-015" for applicable motors.

5. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-PWC501C M-SBXH ××××××

- \times \square is a figure from 1 to 100.
- \times \times \times \times \times \times \times are the serial number for seven digits.

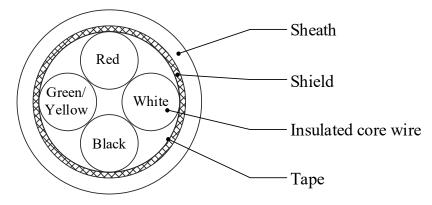
6. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification
Wire			
Structure		—	AWG9×4C
Conductor	Conductor size	—	AWG9
	Outer diameter	mm	Approx.4.8
Insulation	Material	—	PVC
	Outer diameter	mm	Approx.7.6
Twisted	Number of insulated core wire	—	4C
Shield	Material	—	Tin coated copper braid
01 4	Material	—	Flame resisting PVC
Sheath	color		Black
Overall diameter	Overall diameter		Approx. 23.1
Cable weight	Cable weight		800
Electrical	Insulation resistance	$M\Omega \cdot km$	Over 10
characteristics	Withstand voltage	V/ for 5 min	AC2000
Minimum bend	Minimum bend radius		6 times the overall diameter
Bending life			Over 1 million times ^{*1} (by Minimum bend radius)
Flame retardant	Flame retardant		UL1581 VW-1
Connector			
Amplifier side			—
Motor side		Type IP rating	Japan Aviation Electronics Industry, Ltd. JL04V-6A22-22SE-R (Straight plug) SANKEI MANUFACTURING CO.LTD, C2KD2422 (KEIGLAND Type C2)
			IP67 ^{*2}
Cable harness		1	I
	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
Electrical	Insulation resistance	M $\Omega \cdot km$	Over 10
characteristics	Withstand voltage	V/for 1 min	AC2000

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

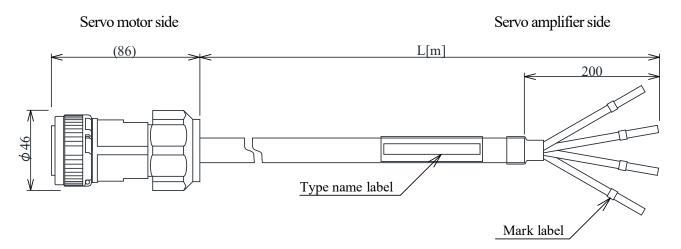
*2 The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

7. STRUCTURAL DRAWING



8. OUTLINE DRAWING

[Unit:mm]



Refer to the following table for mark label and insulation color.

Mark label	Insulation color
U	Red
V	White
W	Black
E	Green / Yellow