

Specification  
for  
General purpose AC Servo  
Power supply cable  
with sealed

Type SC-PWS3CBL□M-■-L

MITSUBISHI ELECTRIC  
SYSTEM & SERVICE CO.,LTD

Note

Revision				Drawn	Check	Design	Approved
A	7 Jun.,2018			<i>N. Ishii</i>	<i>S. Hariya</i>	<i>M. Kawamura</i>	<i>D. Sudo</i>
Send to				Date		Dwg	
				27 Apr.,2016		X903703D50052-F05A	
				Order			

## 1. SCOPE

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

- SC-PWS3CBL□M-■-L

※ 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

SC - PWS3 CBL □ M - ■ - L

PWS3	Sign	Bending life
	L	Standard (For fixed part)
□	Sign	Cable lead out direction
	A1	Motor shaft side
	A2	Opposite of motor shaft
■	Sign	Length of cable
	□	Refer to clause 5.
L	Sign	Application
	PWS3	Power supply cable with sealed ※ Refer to clause 4 for applicable motor

## 3. APPLICABLE STANDARDS

UL758 AWM STYLE 2517 (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 10m Specified by 1m unit

## 6. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-PWS3CBL□M-■-L ×××××××

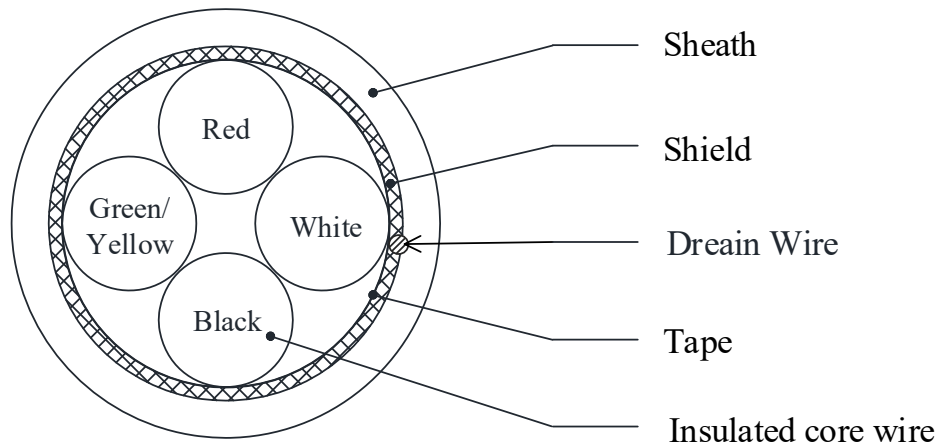
- ※ □ is a figure from 1 to 10.
- ※ ■ is cable lead out direction from A1, A2.
- ※ ××××××× are the serial number for seven digits.

## 7. STRUCTURE AND CHARACTERISTICS

Item		Unit	Specification
Structure		—	AWG18×4C
Conductor	Conductor size	—	AWG18
	Outer diameter	mm	Approx. 1.21
Insulation	Material	—	ETFE
	Outer diameter	mm	Approx. 1.71
Twisted pair	Number of insulated core wire	—	4C
Drain wire	Material		Tin coated copper
Shield	Material		Tin coated copper braid
Sheath	Material	—	Flame resisting PVC
	color	—	Black
Overall diameter		mm	Approx. 6.8
Electrical characteristics	Insulation resistance	MΩ · km	Over 100
	Withstand voltage	V/for 1min	AC1500
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	Japan Aviation Electronics Industry, Limited JN4FT04SJ4-R (Angle plug)
		IP rating	IP65*1

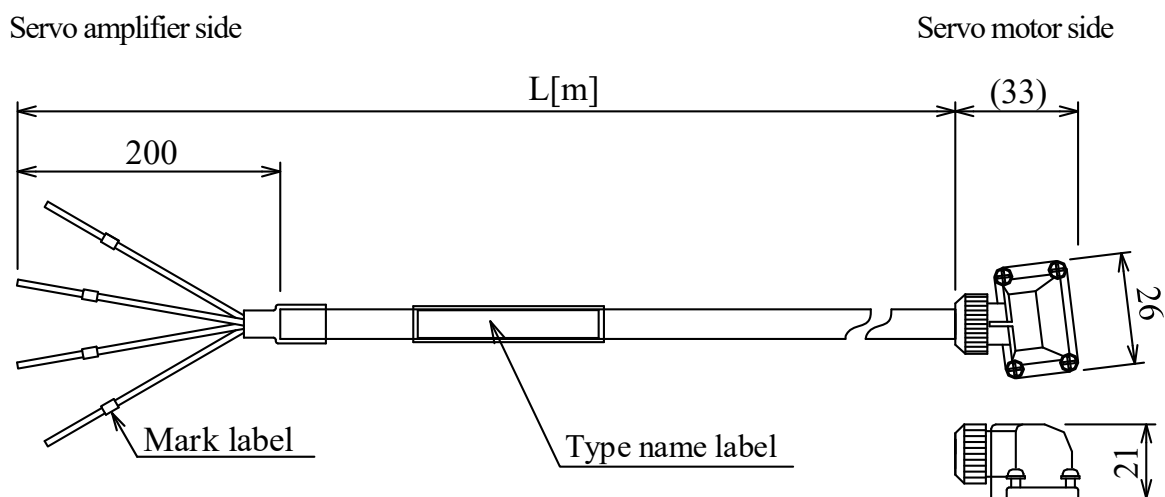
\*1 The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

## 8. STRUCTURAL DRAWING



## 9. 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