

1. SCOPE

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

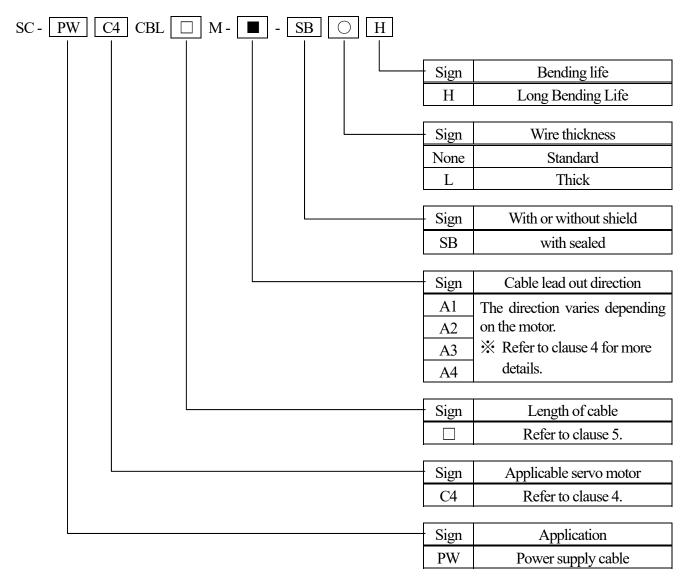
• SC-PWC4CBL□M-■-SBH

• SC-PWC4CBL□M-■-SBLH

X The Products covered in this specification don't include the toxic substances in RoHS (Lead, Mercury, Cadmium, Hexavalent Chromium, PBDE, PBB).

X UL's Wiring Harnesses Traceability program provides traceability for this cable.

2. CABLE TYPE



3. APPLICABLE STANDARDS

UL758 AWM STYLE 2586 (wire part)

4. APPLICABLE SERVO MOTOR

The end of type name	Applicable servo motor	Cable lead out direction (View from cable insertion direction)	
SBH	HG-SR51, 52, 81, 102, 152, 524, 1024, 1524 motor HF-SP51, 52, 81, 102, 152, 524, 1024, 1524 motor	$A2 \xleftarrow{A4} \\ A2 \xleftarrow{A1} \\ A3$	
SBH	HG-JR53, 73, 103, 153, 203, 534, 734, 1034, 1534, 2034, 3534 motor HF-JP53, 73, 103, 153, 203, 534, 734, 1034, 1534, 2034, 3534 motor	$A2$ $A3 \leftarrow A4$ $A1 \lor$	
SBLH	HG-JR5034 motor HF-JP5034 motor		

(Note) Depending on the situation such as installation environment or combination of cables and connectors, there is a chance not to complete installation. (Even though it's mentioned above) Please make sure the cable lead out direction before your purchase.

5. LENGTH OF CABLE

1 to 30m Specified by 1m unit

6. EXAMPLE OF PRINTING CABLE TYPE NAME

$SC-PWC4CBL \Box M-\blacksquare-SB \bigcirc H \quad \times \times \times \times \times \times \times$

- : \square is a figure from 1 to 30.
- $: \blacksquare is cable lead out direction from A1, A2, A3, A4.$
- $\stackrel{\text{\tiny (1)}}{\times}$ \bigcirc is wire thickness from none , L.

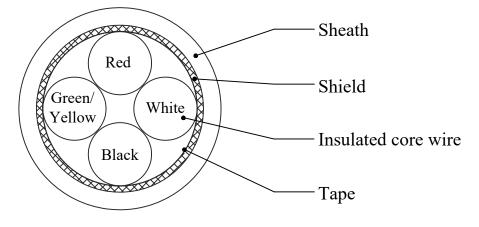
		Unit	Specification		
Item			Unit	SBH	SBLH
Structure			—	AWG15×4C	AWG12×4C
Contrator	Conductor size		—	AWG15	AWG12
Conductor	Outer diameter		mm	Approx. 2.00	Approx. 2.60
Institut	Material		—	ETFE	
Insulation	Outer diameter		mm	Approx. 2.80	Approx. 3.40
Stranding Number of insulation core wire		—	4C		
Shield	Material			Tin coated copper braid	
	Material		—	Flame Retardant PVC	
Sheath	Color		—	Black	
Overall diameter		mm	Approx. 9.9	Approx. 11.5	
Electrical	Insulation resistance		MΩ • km	Over 100	
characteristics	Withstand voltage		V for 1 minute	AC2000	
Operating temperature range			°C	$-10 \sim +60$ (without condensation)	
Minimum radius bend			mm	6 times the overall diameter	
Bending life			—	Over 1 million times ^{*1} (Bend radius: Minimum bend radius of each cable)	
Flame retardant			—	UL1581 VW-1	
	Servo amplifier side		—		
Connector	Servo motor side	Туре	SBH: DDK Ltd. CE05-8A18-10SD-D-BAS (Angle plug) CE3057-10A-2-D (Waterproof cable clamp) SBLH: DDK Ltd. CE05-8A18-10SD-D-BAS (Angle plug) CE3057-10A-1-D (Waterproof cable clamp)		
		IP rating	IP67 ^{*2}		* /

7. STRUCTURE AND CHARACTERISTICS

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

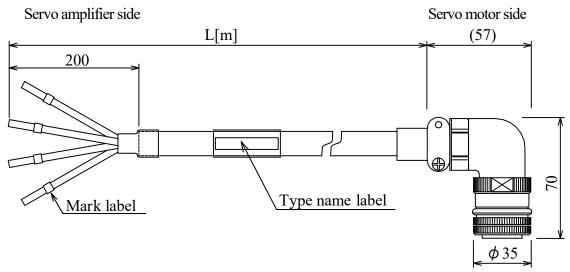
*2 The IP rating indicated is for the connector's protection against ingress of dust and water when coupled to a servo amplifier/servo motor. If the IP rating of the servo amplifier/servo motor differs from that of these connectors, overall IP rating depends on the lowest of all.

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	
Е	Green / Yellow	