

1. SCOPE

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

- SC-PWBKC1CBL□M-■-MH
- SC-PWBKC1CBL□M-■-H
- SC-PWBKC1CBL□M-■-LH

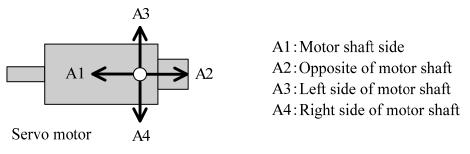
X: The Products covered in this specification don't include the toxic substances in RoHS (Lead, Mercury, Cadmium, Hexavalent Chromium, PBDE, PBB).

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

2. CABLE TYPE

SC - PWBK C1 CBL D M -	- <u> </u>		
		Sign	Bending life
		Н	Long bending life
		Sign	Wire thickness
		М	Thin
		None	Standard
		L	Thick
		Sign	Cable lead out direction *1
		A1	Motor shaft side
		A2	Opposite of motor shaft
		A3	Left side of motor shaft
		A4	Right side of motor shaft
		Sign	Length of cable
			Refer to clause 5.
			Terer to enduse 3.
		Sign	Applicable servo motor
		C1	Refer to clause 4.
		C.	A 1* .*
		Sign	Application
		PWBK	Power supply cable with electromagnetic brake

*1:Cable lead out direction (View from cable insertion direction)



(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.

3. APPLICABLE STANDARDS

UL758 AWM STYLE 2586 (wire part)

4. APPLICABLE SERVO MOTOR

The end of type name MH HG-UR72B motor HC-LP52B, 102B, HC-UP72B motor

2) H

HG-RR103B, 153B, HG-UR152B motor HC-LP152B, HC-RP103B, 153B, HC-UP152B motor

③ LH HG-RR203B motor HC-RP203B motor

5. LENGTH OF CABLE

1 to 30m Specified by 1m unit

6. EXAMPLE OF PRINTING CABLE TYPE NAME

SC-PWBKC1CBL \square M- \blacksquare - \bigcirc H ××××××

- : \square is a figure from 1 to 30.
- \therefore **I** is cable lead out direction from A1, A2, A3, A4.
- $\stackrel{}{\times}$ \bigcirc is wire thickness from M, none , L.

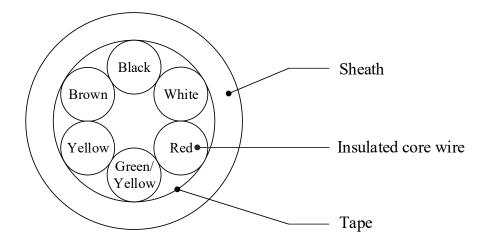
Item		TT '4	Specification			
		Unit	MH	Н	LH	
Structure		—	AWG16×6C	AWG15×6C	AWG12×6C	
Conductor Conductor size Outer diameter		size	—	AWG16	AWG15	AWG12
		eter	mm	Approx. 1.75	Approx.2.0	Approx.2.6
Material		—	ETFE			
Insulation Outer diameter		mm	Approx. 2.55	Approx. 2.8	Approx. 3.4	
Stranding Number of insulation core wire		_	6C			
Cheeth	Sheath Material Color		—	Flame Retardant PVC		
Sneath			—	Black		
Overall diameter		mm	Approx. 10	Approx. 10.3	Approx. 12.7	
Electrical			$M\Omega \cdot km$	Over 100		
characteristics			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 ampl	ifier side	_			
Connector Servo motor side Type MH/H: DD CE05-8A CE3057-1 LH: DDK Lt CE05-8A			22-23SD-D-BAS (Angle plug) 2A-2-D (Waterproof cable clamp)			
		IP rating	IP67 ^{*2}			

7. STRUCTURE AND CHARACTERISTICS

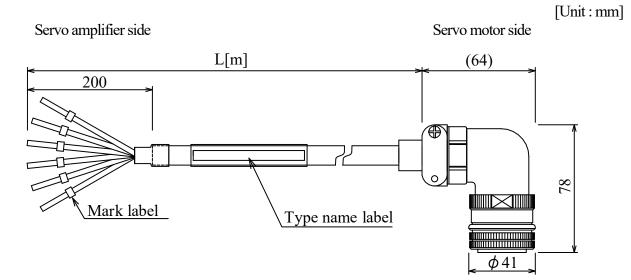
*1 It is a test outcome, and not a guaranteed value. (The performance is different according to customer's environment.)

*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



Refer to the following table for mark lab	bel and insulation color.
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Mark label	Insulation color
U	Red
V	White
W	Black
Е	Green / Yellow
B1	Yellow
B2	Brown