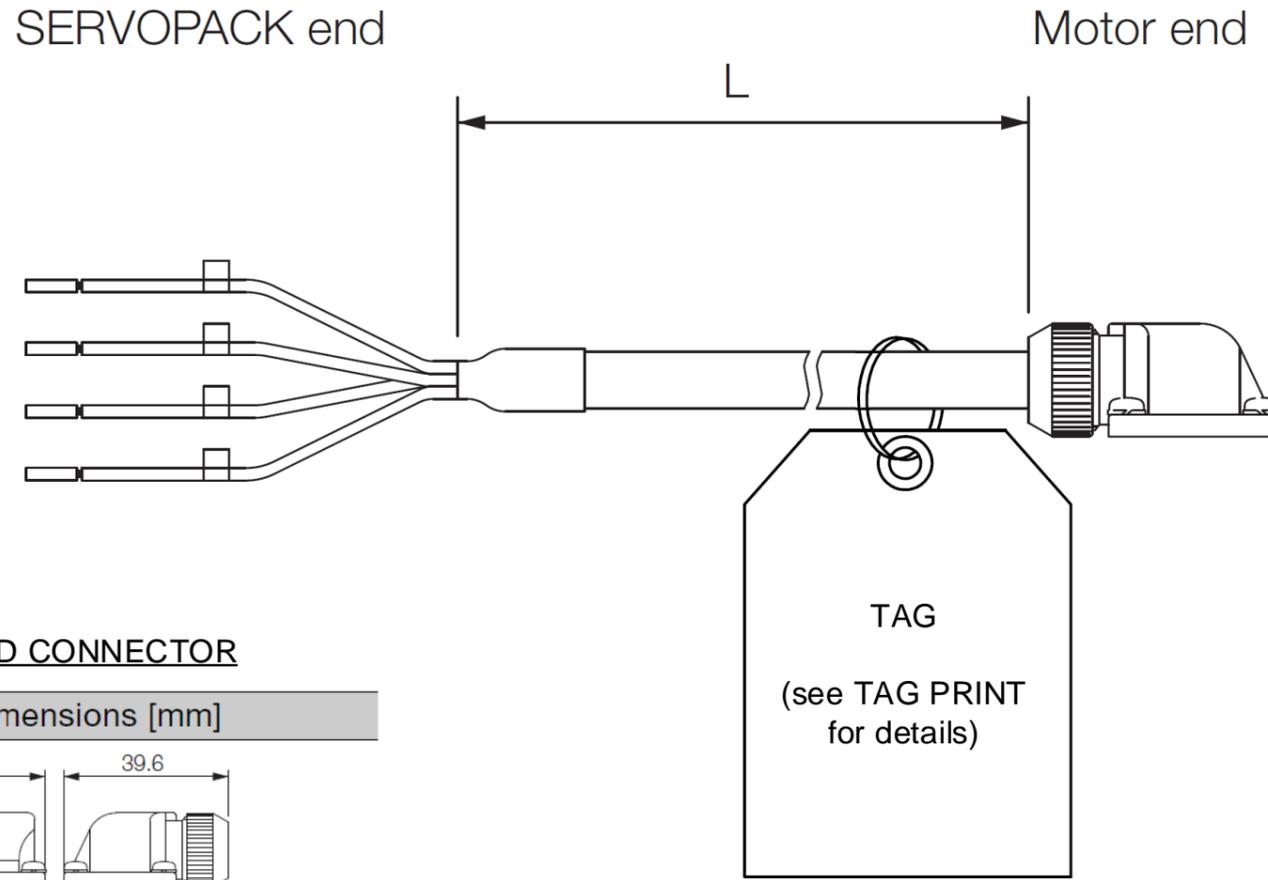


EXTERNAL DIMENSIONS:

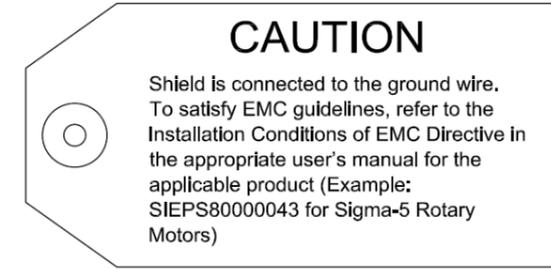


The recommended bend radius is **94 mm** or larger for **moving** parts of machines, such as robots. See [Page 2](#) for Precautions for Flexible Cables.

TAG PRINT



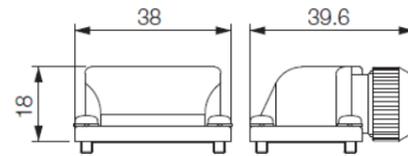
FRONT



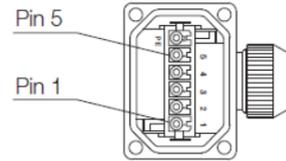
BACK

MOTOR END CONNECTOR

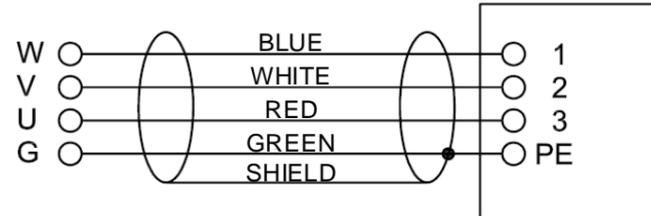
External Dimensions [mm]



Pin layout



WIRING SPECIFICATIONS



NOTES:

1. SHIELD is terminated to the PE pin of the connector.
2. Conductor colors Brown and Black are not connected.

RAW CABLE

SPECIFICATIONS	
Outer Diameter	9.4
Conductor	20 AWG, 26/34 tinned copper
Insulation Colors	Red, White, Black, Green, Brown, Blue
Shield	36 AWG tinned copper braid 85% coverage
Voltage Rating	600V
Jacket	Black PVC
Bend Radius	94
Flex Rating	10 million rolling cycles
Approvals	UL AWM Style 21098 (80°C Oil) CE-LVED OIL RES II RoHS Compliant

NOTES:

1. The raw cable is not available separately from Yaskawa.

ITEM NUMBER	L = Length
YEA-CVM21-03(A)-E	3000
YEA-CVM21-05(A)-E	5000
YEA-CVM21-10(A)-E	10000
YEA-CVM21-15(A)-E	15000
YEA-CVM21-20(A)-E	20000
YEA-CVM21-30(A)-E	30000
YEA-CVM21-40(A)-E	40000
YEA-CVM21-50(A)-E	50000

NOTES:

1. If the length of the Servomotor Main Circuit Cable exceeds 20 m, the intermittent duty zone in the torque-motor speed characteristics will become smaller because the voltage drop increases.

NOTES:

1. This connector has the same outer dimensions and is in the same series as Japan Aviation Electronics (JAE) part number JNYFX06SJ3.
2. This connector accepts a larger cable outer diameter than JAE part number JNYFX06SJ3.
3. This connector is not available separately from Yaskawa.
4. This connector meets IP67 when mated.

THIS DOCUMENT AND THE INFORMATION CONTAINED IN IT ARE PUBLIC AND CAN BE DISCLOSED WITHOUT EXPRESS WRITTEN CONSENT OF YASKAWA AMERICA INC. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE FOR ONGOING PRODUCT MODIFICATIONS AND IMPROVEMENTS.

YASKAWA

TITLE:SGM7G -03 TO -05. 300W TO 450W
Servomotor Power Cable, No Brake,
Away From Load, Flex, Shielded

ITEM #:
YEA-CVM21-xx(A)-E (xx = See Chart)

SIZE: - REVISION: 0 PAGE: 1 of 2

SCALE: NTS UNITS: mm

DRAWING #:
CAD-YEA-CVM21-xxA-E

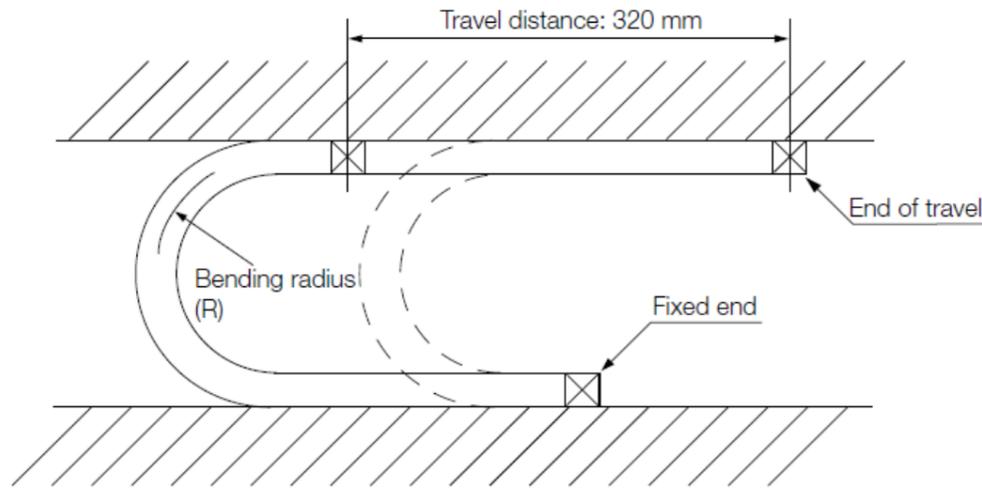
REV	DESCRIPTION	DATE	DRAWN BY
0	Initial Release	Jan. 19, 2021	D. LEE

Precautions for Flexible Cables

The Flexible Cables have a service life of 10,000,000 operations minimum when used at the recommended bending radius (R) or larger under the following test conditions. The service life of a Flexible Cable is reference data under the following test conditions. The service life of a Flexible Cable greatly depends on the amount of mechanical shock, how the cable is attached, and how the cable is secured.

◆ Test Conditions

- One end of the cable is repeatedly moved forward and backward for 320 mm using the test equipment shown in the following figure.
- The fixed end is connected to a non-moving part, the moving end is connected to the moving part, and the number of cable return operations until a lead wire breaks are counted. One round trip is counted as one bend.



Note: The service life of a Flexible Cable indicates the number of bends while the lead wires are electrically charged for which no cracks or damage that affects the performance of the cable sheathing occurs. Breaking of the shield wire is not considered.

- Straighten out the Flexible Cable when you connect it. If the cable is connected while it is twisted, it will break faster. Check the indication on the cable surface to make sure that the cable is not twisted.
- Do not secure the portions of the Flexible Cable that move. Stress will accumulate at the point that is secured, and the cable will break faster. Secure the cable in as few locations as possible.
- If a Flexible Cable is too long, looseness will cause it to break faster. If the Flexible Cable is too short, stress at the points where it is secured will cause it to break faster. Adjust the cable length to the optimum value.
- Do not allow Flexible Cables to interfere with each other. Interference will restrict the motion of the cables, causing them to break faster. Separate the cables sufficiently, or provide partitions between them when wiring.

ITEM NUMBER	L = Length
YEA-CVM21-03(A)-E	3000
YEA-CVM21-05(A)-E	5000
YEA-CVM21-10(A)-E	10000
YEA-CVM21-15(A)-E	15000
YEA-CVM21-20(A)-E	20000
YEA-CVM21-30(A)-E	30000
YEA-CVM21-40(A)-E	40000
YEA-CVM21-50(A)-E	50000

THIS DOCUMENT AND THE INFORMATION CONTAINED IN IT ARE PUBLIC AND CAN BE DISCLOSED WITHOUT EXPRESS WRITTEN CONSENT OF YASKAWA AMERICA INC. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE FOR ONGOING PRODUCT MODIFICATIONS AND IMPROVEMENTS.

YASKAWA

TITLE:SGM7G -03 TO -05. 300W TO 450W Servomotor Power Cable, No Brake, Away From Load, Flex, Shielded

ITEM#: YEA-CVM21-xx(A)-E (xx = See Chart)

SIZE: -	REVISION: 0	PAGE: 2 of 2
------------	----------------	-----------------

SCALE: NTS UNITS: mm

DRAWING #: **CAD-YEA-CVM21-xxA-E**

REV	DESCRIPTION	DATE	DRAWN BY
0	Initial Release	Jan. 19, 2021	D. LEE