Servo100

Technical data

- **Temperature range**
  flexing -40 ℃ to + 75 ℃
  fixed -50 ℃ to + 80 ℃
- **Nominal voltage** 48 V
- **Test voltage** 1000 V
- **Specific insulation resistance**
  > 20 GOhm x cm
- **Minimum bending radius**
  fixed 4 x cable diameter
  flexing 12 x cable diameter

Cable structure

- Extra fine strands of plain copper wires (Class 6)
- Core insulation: TPE
- Cores twisted in short lay lengths
- Tinned copper screen braiding or as wrapping(with drain wire)
- Tape
- Polyurethane sheath (PUR)

Properties

- Designed for up to 5 million bending change cycles in the power chain
- Abrasion and cut resistant
- Oil resistant
- Flame retardant according to IEC 60332-1-2
- Flexible down to -40 °C

Application

The cable is used as a connecting cable between servo controller and generators in automation process and production lines in dry or wet environments.

NO. Cores x Cross-sec. mm^2	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
9 x 0.5	9.4	73.0	114

Servo101

Technical data

- **Temperature range**
  flexing -5 ℃ to + 80 ℃
  fixed -40 ℃ to + 80 ℃
- **Nominal voltage**
  Supply cores: 0.6/1 kV
  Control core pairs: 250 V
- **Specific insulation resistance**
  > 20 GOhm x cm
- **Minimum bending radius**
  fixed 6 x cable diameter
  flexing 20 x cable diameter

Cable structure

- Fine strands of bare copper wires
- Core insulation: PVC
- Control pairs 0.34 mm² color coded, from 0.5 mm² black with consecutive imprinted numbering.
- Control pair screened with Al foil and tinned copper wires braiding
- The model with one control pair is without Al foil.
- PVC outer sheath

Properties

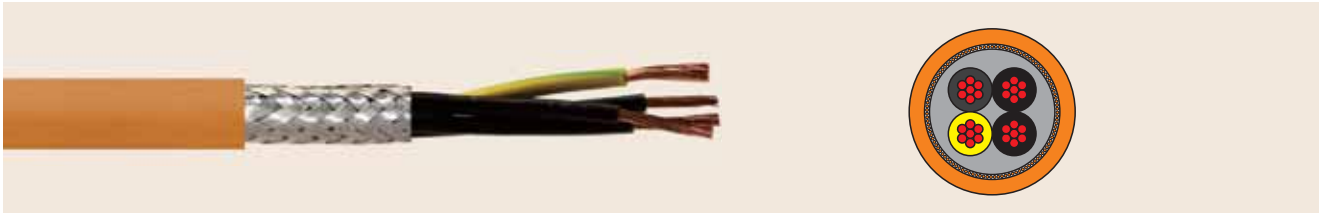
- Stationary application
- Occasional flexing
- In dry, damp or wet interiors under medium mechanical load conditions
- Outdoor use only with UV protection and in accordance with the temperature range.
- Flame retardant (IEC 60332-1-2)

Application

The cable is used as a connecting cable between servo controller and motors in automation process and production lines in dry or wet environments.

NO. Cores x Cross-sec. mm²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
4 G 0.75 + 2 x (2 x 0.34)	9.5	91.9	120
4 G 1.5 + 2 x (2 x 0.75)	12.1	100.6	185
4 G 2.5 + (2 x 2 x 0.75)	13.9	142.1	327
4 G 4 + (2 x 0.75 + 2 x 1.0)	15.8	217.8	423
4 G 6 + (2 x 0.75 + 2 x 1.0)	16.7	294.6	544
4 G 16 + (2 x 2 x 1.0)	23.5	668.8	1168
4 G 1.5 + (2 x 0.75)	11.7	98.0	149
5 G 1.5 + (2 x 0.75)	12.7	110.0	160
7 G 1.5 + (2 x 0.75)	12.4	144.8	210
4 G 2.5 + (2 x 0.75)	13.1	138.8	227
7 G 2.5 + (2 x 0.75)	15.2	215.7	334

Servo102



Technical data

- **Temperature range**
  flexing -0 ℃ to + 80 ℃
  fixed installation -40 ℃ to + 80 ℃
- **Nominal voltage**
  IEC: power cores: 0.6/1 kV
  Control cores: 300 V
  UL: with control pairs: 600 V
  without control pairs: depends on its final application
- **Test voltage**
  Cores: 4000 V
  Control cores: 750 V
- **Specific insulation resistance**
  > 20 GOhm x cm
- **Minimum bending radius**
  flxed 4 x cable diameter
  flexing 12 x cable diameter

Cable structure

- Extra fine strands of plain copper wires (Class 6)
- Core insulation: PVC
- Depending on design, cores together, without/with one or with two double screened control core pairs, twisted together in short lay length
- Tape
- Tinned copper braid
- Polyurethane sheath (PUR)

Properties

- Designed for up to 5 million bending change cycles in the power chain
- Abrasion and cut resistant
- Oil resistant
- Flame retardant acc. IEC 60332-1-2 & CSA FT1

Application

The cable is used as a connecting cable between servo controller and motors in automation process and production lines in dry or wet environments.

NO. Cores x Cross-sec. mm^2	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
4 G 1.5	9.7	87.1	153
4 G 2.5	11.2	135.0	219
4 G 4	12.7	197.5	301
4 G 6	14.9	298.3	437
4 G 10	18.7	472.3	675
4 G 16	24.2	751.9	1106
4 G 25	27.9	1161.6	1628
4 G 35	33.0	1576.1	2186
4 G 50	39.1	1967.2	3126
4 G 1.5 + 2 X (2 X 0.75)	15.3	177.9	397
4 G 2.5 + 2 X (2 X 0.75)	15.3	215.8	455
4 G 4.0 + (2 X 0.75) + (2 X 1.0)	16.8	294.8	576
4 G 10 + (2 X 0.75 + 2 X 1.0)	21.9	573.3	970
4 G 16 + (2 X 2 X 1.0)	26.3	835.6	1347
4 G 1.5 + (2 X 2 X1.0)	14.0	159.8	340
4 G 2.5 + (2 X 1.0)	14.8	200.5	404

Servo103

Technical data

- **Temperature range**
  flexing -0 ℃ to + 80 ℃
  fixed installation -50 ℃ to + 80 ℃
- **Nominal voltage**
  IEC: power cores: 0.6/1 kV
  Control cores: 250 V
  UL: with control pairs: 600 V
  without control pairs: depends on its final application
- **Test voltage**
  Cores: 4000 V
  Control cores: 750 V
- **Specific insulation resistance**
  > 20 GOhm x cm
- **Minimum bending radius**
  flxed 3 x cable diameter
  flexing 5 x cable diameter

Cable structure

- Extra fine strands of plain copper wires (Class 6)
- Core insulation: TPE
- Depending on design, cores together, without/with one or with two double screened control core pairs, twisted together in short lay length
- Tape
- Polyurethane sheath (PUR)

Properties

- Designed for up to 5 million bending change cycles in the power chain
- Abrasion and cut resistant
- Oil resistant
- Flame retardant acc. IEC 60332-1-2 & CSA FT1
- Flexible down to -40 °C

Application

The cable is used as a connecting cable between servo controller and motors in automation process and production lines in dry or wet environments.

NO. Cores x Cross-sec. mm^2	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
4 G 1.5 + (2 x 1.0)	13.0	81.4	166
4 G 2.5 + (2 x 1.0)	13.4	119.8	185
4 G 4 + (2 x 1.0)	14.8	177.4	243
4 G 6 + (2 x 1.0)	16.4	254.4	292
4 G 10 + (2 x 1.0)	20.8	412.4	690
4 G 0.75	9.7	28.8	103
4 G 2.5	11.7	96.0	191
4 G 4	13.7	153.6	278
4 G 6	15.1	230.4	376
4 G 16	26.5	614.4	1058
4 G 25	30.5	960.0	1535
4 G 35	34.5	1344.0	2035

Servo104

Technical data

- **Temperature range**
  flexing -40 ℃ to + 80 ℃
  fixed installation -50 ℃ to + 80 ℃
- **Nominal voltage** 0.6/1 kV
- **Test voltage** 4000 V
- **Specific insulation resistance**
  > 20 GOhm x cm
- **Minimum bending radius**
  flxed 4 x cable diameter
  flexing 7.5 x cable diameter

Cable structure

- Extra fine strands of plain copper wires (Class 6)
- Core insulation: based on TPE
- Cores twisted in extremely short lay length
- Tape
- Tinned copper braid
- Polyurethane sheath (PUR)

Properties

- Its low capacity design allows longer cable lengths between the frequency converter and motor
- Oil resistant
- Halogen-free and flame retardant (IEC 60332-1-2)
- Low adhesive surface
- Designed for up to 5 million bending change cycles in the power chain

Application

The cable is used as a connecting cable between servo controller and motors in automation process and production lines in dry or wet environments.

NO. Cores x Cross-sec. mm^2	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
4 G 1.5	10.6	92.0	167
4 G 2.5	12.5	139.0	234
4 G 4	14.5	221.0	348
4 G 6	15.9	307.0	442
4 G 10	20.6	482.0	691
4 G 16	23.8	725.0	982
4 G 25	28.7	1136.0	1498
4 G 35	34.0	1605.0	2114
5 G 1,5	11.8	115.5	213

Servo105

Technical data

- **Temperature range**
  flexing -5 ℃ to + 80 ℃
  fixed installation -40 ℃ to + 70 ℃
- **Nominal voltage** 0.6/1 kV
- **Test voltage** 4000 V
- **Specific insulation resistance**
  > 20 GOhm x cm
- **Minimum bending radius**
  flxed 4 x cable diameter
  flexing 15 x cable diameter

Cable structure

- Fine strands of bare copper wires
- Core insulation: Polyethylene (PE)
- Cores twisted
- Al-foil
- Tinned copper wire braiding
- PVC sheath

Properties

- Its low capacity design allows longer cable lengths between the frequency converter and motor
- In dry, wet and damp interiors
- The black version can also be used outdoors in direct UV rays. Direct burial in the ground is also possible.
- Flame retardant (IEC 60332-1-2)

Application

The cable is used as a connecting cable between servo controller and motors in automation process and production lines in dry or wet environments.

NO. Cores x Cross-sec. mm^2	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
4 G 1.5	11.4	95.0	230
4 G 2.5	12.4	150.0	300
4 G 4	15.6	235.0	485
4 G 6	17.0	320.0	630
4 G 10	19.6	533.0	860
4 G 16	22.1	789.0	1290
4 G 25	26.3	1236.0	1860
4 G 35	29.5	1662.0	2610
4 G 50	35.8	2345.0	2950
4 G 70	40.3	3196.0	3950
4 G 95	46.5	4316.0	5300
4 G 120	53.2	5435.0	6600
4 G 150	57.3	6394.0	7043