

YM2A68-200UA6XLEAX

Sensor-actuator cables

CONNECTORS AND CABLES





Ordering information

Туре	part no.
YM2A68-200UA6XLEAX	6050689

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Detailed technical data

Technical specifications

Connection type head B Flying leads Connector material TPU Connector color Black Locking nut material Stainless steel (V4A/1.4404) Cable 20 m, 8-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 6.3 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius > 12 x cable diameter Stationary position > 5 x cable diameter Stationary position > 5 x cable diameter Current loading 30 V Current loading 2 A Traversing speed 1.7 m/s Travelling distance 5 m Acceleration 5 m/s² Signal type Sensor/actuator cable Torsion force ± 360° / 1 m Torsion cycles 1,000,000	·	
Connection type Flying leads Connector material TPU Connector color Black Locking nut material Stainless steel (V4A/1.4404) Cable 20 m, 8-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 6.3 mm Conductor cross section 0.25 mm² Shielded Shielded Bending radius > 12 x cable diameter Stationary position > 5 x cable diameter Stationary position > 1,000,000 Reference voltage ≤ 30 V Current loading 2 A Traversing speed 1.7 m/s Travelling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion cycles 1,000,000 Application Uncontaminated zones Zones with oils and lubricants Robot	Connection type head A	Male connector, M12, 8-pin, straight
Connector material TPU Connector color Black Locking nut material Stainless steel (V4A/1.4404) Cable 20 m, 8-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 6.3 mm Conductor cross section 0.25 mm² Shielding Shielded **Bending radius*** **Flexible use Stationary position 12 x cable diameter **Stationary position \$ 12 x cable diameter **Stationary position \$ 5 x cable diameter **Stationary position \$ 12 x cable diameter **Stationary position \$ 2 x cable diameter **Stationary position \$ 30 V **Current loading 2 A **Traversing speed 1.7 m/s **Traversing speed 5 m **Signal type \$ 5 m/s² **Signal type \$ 6 m/s² **Traversing speed \$ 1,000,000 **Signal type <th>Connection type head B</th> <td>Flying leads</td>	Connection type head B	Flying leads
Connector color	Connection type	Flying leads
Locking nut material Stainless steel (V4A/1.4404) Cable 20 m, 8-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 6.3 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius Flexible use Stationary position Statio	Connector material	TPU
Cable 20 m, 8-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 6.3 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius Flexible use Stationary position > 12 x cable diameter Stationary position > 5 x cable diameter Bending cycles ≥ 1,000,000 Reference voltage ≤ 30 V Current loading 2 A Traversing speed 1.7 m/s Travelling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion cycles 1,000,000 Application Uncontaminated zones Zones with oils and lubricants Robot	Connector color	Black
Jacket material PUR, halogen-free Jacket color Black Cable diameter 6.3 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius Flexible use Stationary position > 12 x cable diameter \$ 5 x cable diameter \$ 5 x cable diameter \$ 1,000,000 Reference voltage ≤ 30 V Current loading 2 A Traversing speed 1.7 m/s Travelling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force ± 360° / 1 m Torsion cycles 1,000,000 Application Uncontaminated zones Zones with oils and lubricants Robot	Locking nut material	Stainless steel (V4A/1.4404)
Jacket color Black Cable diameter 6.3 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius Flexible use > 12 x cable diameter Stationary position > 5 x cable diameter Bending cycles ≥ 1,000,000 Reference voltage ≤ 30 V Current loading 2 A Traversing speed 1.7 m/s Travelling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force ± 360° / 1 m Torsion cycles 1,000,000 Application Uncontaminated zones Zones with oils and lubricants Robot	Cable	20 m, 8-wire, PUR, halogen-free
Cable diameter 6.3 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius Flexible use Stationary position Stationary position Stationary position Parallel Stationary position Stationary p	Jacket material	PUR, halogen-free
Conductor cross section 0.25 mm² Shielding Shielded Bending radius Flexible use Stationary position Stationary position Bending cycles Reference voltage ≤ 30 V Current loading 2 A Traversing speed 1.7 m/s Travelling distance Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force ± 360° / 1 m Torsion cycles 1,000,000 Application Uncontaminated zones Zones with oils and lubricants Robot	Jacket color	Black
Shielding Shielded Bending radius > 12 x cable diameter Stationary position > 5 x cable diameter Bending cycles ≥ 1,000,000 Reference voltage ≤ 30 V Current loading 2 A Traversing speed 1.7 m/s Travelling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force ± 360° / 1 m Torsion cycles 1,000,000 Application Uncontaminated zones zones with oils and lubricants Robot	Cable diameter	6.3 mm
Bending radius Flexible use Stationary position Bending cycles Reference voltage ≤ 30 V Current loading 1.7 m/s Traversing speed 1.7 m/s Travelling distance Acceleration Signal type Sensor/actuator cable Torsion force ± 360° / 1 m Torsion cycles Application Lincontaminated zones Robot Reference voltage > 1.2 x cable diameter > 5 x cable diameter > 5 x cable diameter > 5 x cable diameter > 5 x cable diameter	Conductor cross section	0.25 mm ²
Flexible use Stationary position Bending cycles Reference voltage ≤ 30 V Current loading Traversing speed 1.7 m/s Travelling distance Acceleration Signal type Torsion force ± 360° / 1 m Torsion cycles Application Flexible use > 12 x cable diameter > 5 x cable diameter	Shielding	Shielded
Stationary position > 5 x cable diameter ≥ 1,000,000 Reference voltage ≤ 30 V Current loading Traversing speed 1.7 m/s Travelling distance Acceleration Signal type Sensor/actuator cable 1.7 solon force 1.000,000 Application > 5 x cable diameter > 1,000,000 Uncontaminated zones Zones with oils and lubricants Robot	Bending radius	
Bending cycles Reference voltage ≤ 30 V Current loading 1.7 m/s Traversing speed 1.7 m/s Travelling distance Acceleration ≤ 5 m/s² Signal type Torsion force ± 360° / 1 m Torsion cycles Application Uncontaminated zones Zones with oils and lubricants Robot	Flexible use	> 12 x cable diameter
Reference voltage ≤ 30 V Current loading 1.7 m/s Traversing speed 1.7 m/s Travelling distance Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force ± 360° / 1 m Torsion cycles Application Uncontaminated zones Zones with oils and lubricants Robot	Stationary position	> 5 x cable diameter
⊆ 30 V Current loading 2 A Traversing speed 1.7 m/s Travelling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force ± 360° / 1 m Torsion cycles 1,000,000 Application Uncontaminated zones Zones with oils and lubricants Robot	Bending cycles	≥ 1,000,000
Current loading 2 A Traversing speed 1.7 m/s Travelling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force ± 360° / 1 m Torsion cycles 1,000,000 Application Uncontaminated zones Zones with oils and lubricants Robot	Reference voltage	
Traversing speed 1.7 m/s Travelling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force ± 360° / 1 m Torsion cycles Application Uncontaminated zones Zones with oils and lubricants Robot		≤ 30 V
Travelling distance 5 m Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force ± 360° / 1 m Torsion cycles 1,000,000 Application Uncontaminated zones Zones with oils and lubricants Robot	Current loading	2 A
Acceleration ≤ 5 m/s² Signal type Sensor/actuator cable Torsion force ± 360° / 1 m Torsion cycles 1,000,000 Application Uncontaminated zones Zones with oils and lubricants Robot	Traversing speed	1.7 m/s
Signal type Sensor/actuator cable ± 360° / 1 m Torsion cycles 1,000,000 Uncontaminated zones Zones with oils and lubricants Robot	Travelling distance	5 m
Torsion force ± 360° / 1 m 1,000,000 Application Uncontaminated zones Zones with oils and lubricants Robot	Acceleration	$\leq 5 \text{ m/s}^2$
Torsion cycles 1,000,000 Uncontaminated zones Zones with oils and lubricants Robot	Signal type	Sensor/actuator cable
Application Uncontaminated zones Zones with oils and lubricants Robot	Torsion force	± 360° / 1 m
Zones with oils and lubricants Robot	Torsion cycles	1,000,000
	Application	Zones with oils and lubricants Robot

Enclosure rating	IP67/ IP69K
Operating temperature	
Flexible use	-30 °C +90 °C
Stationary position	-40 °C +90 °C
Drag chain operation	-25 °C +60 °C

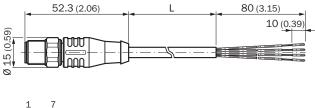
Certificates

EU declaration of conformity	✓
China RoHS	✓

Classifications

ECLASS 5.0	19030312
ECLASS 5.1.4	19030312
ECLASS 6.0	27060304
ECLASS 6.2	27060304
ECLASS 7.0	27060304
ECLASS 8.0	27060304
ECLASS 8.1	27060304
ECLASS 9.0	27060304
ECLASS 10.0	27060304
ECLASS 11.0	27060304
ECLASS 12.0	27060304
ETIM 5.0	EC000830
ETIM 6.0	EC000830
ETIM 7.0	EC003249
ETIM 8.0	EC003249
UNSPSC 16.0901	26121604

Dimensional drawing



3 6

Dimensions in mm (inch)

- ① White
- ② Brown
- 3 Green
- 4 Yellow
- ⑤ Gray
- 6 Pink

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CONNECTORS AND CABLES

⑦ blue⑧ Red

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We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

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For us, that is "Sensor Intelligence."

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