



# YF2A18-100UA5M2A18

Sensor/actuator cable

PLUG CONNECTORS AND CABLES

**SICK**  
Sensor Intelligence.



### Ordering information

Type	Part no.
YF2A18-100UA5M2A18	2096035

For 8-pin sensor-actuator cables, the wire colors are not standardized. Therefore, please observe the pin assignment of the sensor and the cable in the respective data sheet.

Other models and accessories → [www.sick.com/Sensor\\_actuator\\_cable](http://www.sick.com/Sensor_actuator_cable)



### Detailed technical data

#### Technical specifications

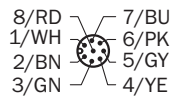
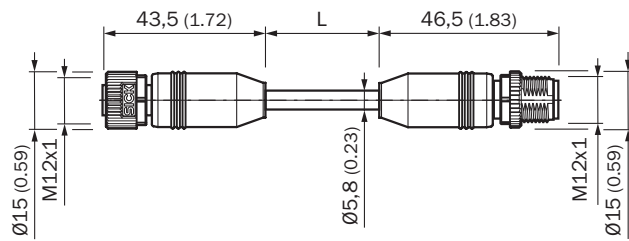
<b>Connection type head A</b>	Female connector, M12, 8-pin, straight, A-coded						
<b>Connection type head B</b>	Male connector, M12, 8-pin, straight, A-coded						
<b>Locking plug connector</b>	Screw connection						
<b>Connector material</b>	TPU						
<b>Connector color</b>	Black						
<b>Locking nut material</b>	Zinc die-cast, nickel-plated						
<b>Seal material</b>	FKM						
<b>Tightening torque</b>	0.6 Nm						
<b>Width across flats</b>	13						
<b>Cable</b>	10 m, 8-wire, PUR, halogen-free						
<b>Jacket material</b>	PUR, halogen-free						
<b>Jacket color</b>	Black						
<b>Cable diameter</b>	5.8 mm						
<b>Conductor cross section</b>	0.25 mm <sup>2</sup>						
<b>Shielding</b>	Unshielded						
<b>Bending radius</b>	<table border="0"> <tr> <td>Flexible use</td> <td>&gt; 10 x cable diameter</td> </tr> <tr> <td>Stationary position</td> <td>&gt; 5 x cable diameter</td> </tr> <tr> <td>Drag chain operation</td> <td>&gt; 10 x cable diameter</td> </tr> </table>	Flexible use	> 10 x cable diameter	Stationary position	> 5 x cable diameter	Drag chain operation	> 10 x cable diameter
Flexible use	> 10 x cable diameter						
Stationary position	> 5 x cable diameter						
Drag chain operation	> 10 x cable diameter						
<b>Bending cycles</b>	10,000,000						
<b>Nominal voltage, cable</b>	300 V AC						
<b>Test voltage, cable</b>	2,500 V AC						
<b>Reference voltage</b>	<table border="0"> <tr> <td>30 V AC</td> </tr> <tr> <td>30 V DC</td> </tr> </table>	30 V AC	30 V DC				
30 V AC							
30 V DC							
<b>Rated impulse voltage</b>	0.8 kV						
<b>Current loading</b>	2 A						
<b>Traversing speed</b>	3 m/s						
<b>Travelling distance</b>	10 m						

<b>Acceleration</b>	≤ 10 m/s <sup>2</sup>
<b>Signal type</b>	Sensor/actuator cable
<b>Torsion force</b>	180° / 1 m
<b>Torsion cycles</b>	2,000,000
<b>Cycles per minutes</b>	35
<b>Application</b>	Zones with oils and lubricants Drag chain operation Robot
<b>Authorizations</b>	UL
<b>UL File No.</b>	E335179
<b>Enclosure rating</b>	IP65 / IP66K / IP67
<b>Operating temperature</b>	
Flexible use	-25 °C ... +80 °C
Stationary position	-40 °C ... +80 °C
Drag chain operation	-25 °C ... +80 °C
Head	-25 °C ... +85 °C
<b>Contamination rating</b>	3
<b>Insulation resistance</b>	100 MΩ
<b>Overvoltage category</b>	III
<b>Specific insulation resistance</b>	30 mΩ
<b>Thermal resistance, piping</b>	Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, IEC 60332-2-2

### Classifications


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

### Dimensional drawing (Dimensions in mm (inch))



### Recommended accessories

Other models and accessories → [www.sick.com/Sensor\\_actuator\\_cable](http://www.sick.com/Sensor_actuator_cable)

	Brief description	Type	Part no.
Other mounting accessories			
	1 piece, M12 mounting key set for SW13 with calibrated torque 0.6 Nm	TOOL-TW06M12AF13	5337208

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

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.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)