

YF2A18-200UA5XLEAX

Sensor/actuator cable





Ordering information

Туре	Part no.
YF2A18-200UA5XLEAX	2095680

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



Detailed technical data

Technical specifications

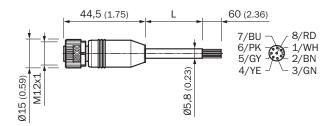
recnnical specifications	
Connection type head A	Female connector, M12, 8-pin, straight, A-coded
Connection type head B	Flying leads
Locking plug connector	Screw connection
Connector material	TPU
Connector color	Black
Locking nut material	Zinc die-cast, nickel-plated
Seal material	FKM
Tightening torque	0.6 Nm
Width across flats	13
Cable	20 m, 8-wire, PUR, halogen-free
Jacket material	PUR, halogen-free
Jacket color	Black
Cable diameter	5.8 mm
Conductor cross section	0.25 mm ²
Shielding	Unshielded
Bending radius	
Flexible use	> 10 x cable diameter
Stationary position	> 5 x cable diameter
Drag chain operation	> 10 x cable diameter
Bending cycles	10,000,000
Nominal voltage, cable	300 V AC
Test voltage, cable	2,500 V AC
Reference voltage	
	30 V AC
	30 V DC
Rated impulse voltage	0.8 kV
Current loading	2 A
Traversing speed	3 m/s
Travelling distance	10 m

Signal type Sensor/actuator cable Torsion force 180° / 1 m Torsion cycles 2,000,000 Cycles per minutes 35 Application Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation Authorizations UL UL File No. E335179 Enclosure rating IP65 / IP66K / IP67 Operating temperature Flexible use Stationary position -40 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +85 °C Contamination rating 3 Insulation resistance 100 MΩ Overvoltage category III Specific insulation resistance 30 mΩ			
Torsion force 180° / 1 m 2,000,000 Cycles per minutes 35 Application Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation UL UL File No. E335179 Enclosure rating Operating temperature Flexible use Stationary position Drag chain operation Drag cha	Acceleration	≤ 10 m/s²	
Torsion cycles Cycles per minutes Application Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation UL UL File No. E335179 Enclosure rating Operating temperature Flexible use Stationary position Drag chain operation Drag chain operation Head Contamination rating Insulation resistance Overvoltage category Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Signal type	Sensor/actuator cable	
Cycles per minutes Application Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation UL UL File No. E335179 Enclosure rating Operating temperature Flexible use Stationary position Drag chain operation V=25 °C +80 °C -40 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +85 °C Contamination rating Insulation resistance Overvoltage category III Specific insulation resistance Thermal resistance, piping Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation C=335179 IV C=35 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +85 °C Som MΩ Fleame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Torsion force	180°/1 m	
Application Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation UL UL File No. Enclosure rating Operating temperature Flexible use Stationary position Drag chain operation Opag chain operation Flexible use Stationary position Drag chain operation Overvoltage category Thermal resistance, piping Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation UL E335179 IP65 / IP66K / IP67 Overvoltage category III Specific insulation resistance 30 mΩ Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Torsion cycles	2,000,000	
Zones with oils and lubricants Robot Drag chain operation UL UL File No. E335179 Enclosure rating Operating temperature Flexible use Stationary position Drag chain operation Drag chain operation Flexible use Stationary position Drag chain operation Drag chain operation Head Secondary 100 MΩ Insulation resistance 100 MΩ Specific insulation resistance Thermal resistance, piping Zones with oils and lubricants Robot Drag chain operation UL E335179 IP65 / IP66K / IP67 C -25 °C +80 °C -40 °C +80 °C -25 °C +80 °C -25 °C +85 °C Zontamination rating Solution resistance 100 MΩ Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Cycles per minutes	35	
UL File No. Enclosure rating P65 / P66K / P67	Application	Zones with oils and lubricants Robot	
Enclosure rating Operating temperature Flexible use Stationary position Drag chain operation Drag chain operation Head Contamination rating Insulation resistance Overvoltage category Thermal resistance, piping IP65 / IP66K / IP67 P65 / IP66K / IP67 P66 / IP67 P67 / IP66 / IP67 P66 / IP67	Authorizations	UL	
Flexible use Flexible use Stationary position Drag chain operation Head Contamination rating Insulation resistance Overvoltage category Thermal resistance, piping Flexible use -25 °C +80 °C -40 °C +80 °C -25 °C +85 °C 25 °C +85 °C 30 mΩ Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	UL File No.	E335179	
Flexible use Stationary position Drag chain operation Head -25 °C +80 °C -25 °C +80 °C -25 °C +80 °C -25 °C +85 °C Contamination rating 3 Insulation resistance 100 MΩ Overvoltage category III Specific insulation resistance 30 mΩ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Enclosure rating	IP65 / IP66K / IP67	
Stationary position Drag chain operation Head -25 °C +80 °C -25 °C +85 °C Contamination rating 3 Insulation resistance 100 MΩ Overvoltage category III Specific insulation resistance 30 mΩ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Operating temperature		
Drag chain operation Head -25 °C +80 °C -25 °C +85 °C Contamination rating 3 Insulation resistance 100 MΩ Overvoltage category III Specific insulation resistance 30 mΩ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Flexible use	-25 °C +80 °C	
Head -25 °C +85 °C Contamination rating 3 Insulation resistance 100 MΩ Overvoltage category III Specific insulation resistance 30 mΩ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Stationary position	-40 °C +80 °C	
Contamination rating 3 Insulation resistance 100 MΩ Overvoltage category III Specific insulation resistance 30 mΩ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Drag chain operation	-25 °C +80 °C	
Insulation resistance $100 \text{ M}\Omega$ Overvoltage category III Specific insulation resistance $30 \text{ m}\Omega$ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Head	-25 °C +85 °C	
Overvoltage category III Specific insulation resistance 30 mΩ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Contamination rating	3	
Specific insulation resistance 30 mΩ Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Insulation resistance	100 ΜΩ	
Thermal resistance, piping Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1,	Overvoltage category	III	
	Specific insulation resistance	30 mΩ	
	Thermal resistance, piping		

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 (Dimensions in mm (inch))



Recommended accessories

Other models and accessories → www.sick.com/Sensor_actuator_cable

	Brief description	Туре	Part no.		
Other mounting accessories					
	1 piece, M12 mounting key set for SW13 with calibrated torque 0.6 Nm	TOOL-TW06M12AF13	5337208		
Others					
	Connection type head A: Male connector, M12, 8-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.25 mm² 0.5 mm² Note: For field bus technology	STE-1208-G	6033269		
	Connection type head A: Female connector, M12, 8-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.25 mm² 0.5 mm²	DOS-1208-G	6028422		

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