

# M12 Basic line Cable type

# XS2F-M12

## Water- and Environment-resistive FA Connectors

### Save Wiring and Maintenance Effort

- Compact FA connectors meet IP67 requirements and ensure a 94V-0 fire retardant rating.
- A wide array of connectors makes a wiring system more modular, simplifies maintenance, and reduces downtime.
- IEC61076-2-101(IEC60947-5-2)
- Lineup of connectors with LEDs for easy visual confirmation of Sensor operating status.



## Ratings and Specifications

Item	XS2F-M12□□□□□□□M XS2W-M12□□□□□□□M	XS2F-M12□□□□□A□□M□LED
Rated current	4A	
Rated voltage	125 VDC	24 VDC
Contact resistance (Connector)	40 mΩ max. (20 mV max., 100 mA max.)	
Insulation resistance	1,000 MΩ min. (at 500 VDC)	-
Dielectric strength (Connector)	AC 1,500 V 1 min. (leakage current: 1 mA max.).	-
Degree of protection	IP67 (IEC60529)	
Temperature range	-10 to +80°C	

## Materials and Finish

Contacts	Copper alloy/ nickel base, gold plating
Pin block	PBT resin (UL94 V-0)
Fixtures	Copper alloy/ nickel plating
Cover	PBT resin (UL94V-0)

## PVC Cable



Item	3 cores	4 cores
Color	Black	
Outer diameter	5 mm dia.	5 mm dia. *
Conductor size	AWG23 0.25 mm <sup>2</sup> (32/0.1)	
Approvals	AWM2464	
Features	Flame retardant	

\*LED Type is 5.4 mm dia.

## PUR Cable

Item	3 cores	4 cores
Color	Black	
Outer diameter	4.3 mm dia.	4.7 mm dia.
Conductor size	AWG22 0.32 mm <sup>2</sup> (42/0.1)	
Approvals	AWM20936	
Features	Flame retardant Halogen free Oil resistance	

## Connector Pinout Diagram (from Mating Side)

Item	No. of poles	4 poles
DC type	Male (plug) contacts	
	Female (socket) contacts	

# XS2F M12 Sockets on One Cable End

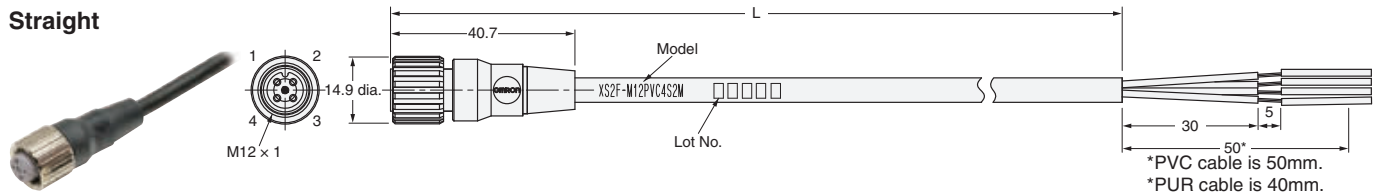
XS2F-M12PVC□□□□M PVC cable

XS2F-M12PUR□□□□M PUR cable

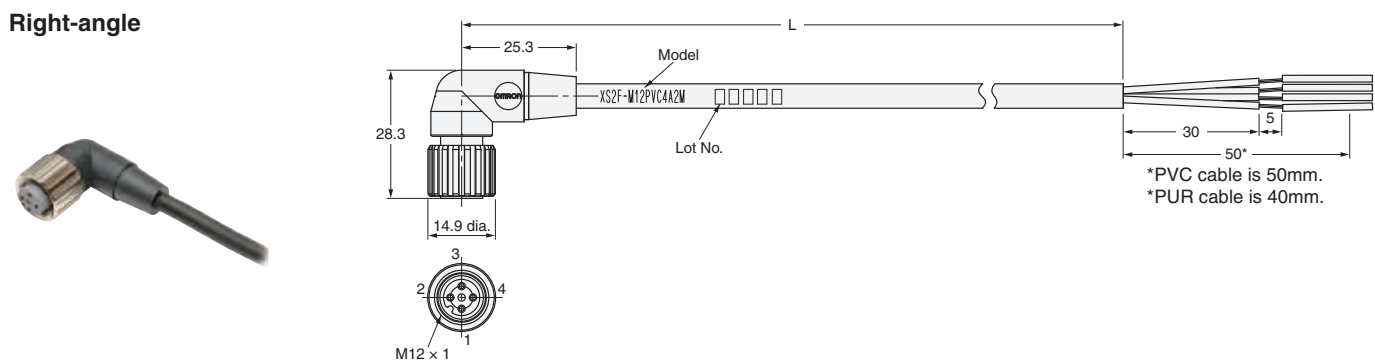
## Dimensions

(Unit: mm)

### Straight

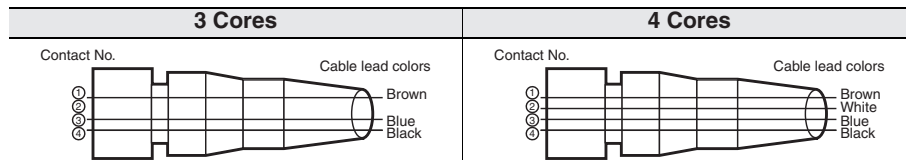


### Right-angle



Note: For 3-core, pin 2 is not connected internally

## Wiring Diagram



## Ordering Information

Cable type	No. of cable cores	Cable outer diameter	Cable connection direction	Cable length (m)	Model	
PVC	3	5.0 dia	Straight	2	XS2F-M12PVC3S2M	
				5	XS2F-M12PVC3S5M	
				10	XS2F-M12PVC3S10M	
			Right-angle	2	XS2F-M12PVC3A2M	
				5	XS2F-M12PVC3A5M	
				10	XS2F-M12PVC3A10M	
	4		Straight	2	XS2F-M12PVC4S2M	
				5	XS2F-M12PVC4S5M	
				7	XS2F-M12PVC4S7M	
				10	XS2F-M12PVC4S10M	
			Right-angle	2	XS2F-M12PVC4A2M	
				5	XS2F-M12PVC4A5M	
				7	XS2F-M12PVC4A7M	
				10	XS2F-M12PVC4A10M	
PUR		3		Straight	2	XS2F-M12PUR3S2M
					5	XS2F-M12PUR3S5M
	10		XS2F-M12PUR3S10M			
	Right-angle		2	XS2F-M12PUR3A2M		
			5	XS2F-M12PUR3A5M		
			10	XS2F-M12PUR3A10M		
	4	4.7 dia	Straight	2	XS2F-M12PUR4S2M	
				5	XS2F-M12PUR4S5M	
				10	XS2F-M12PUR4S10M	
			Right-angle	2	XS2F-M12PUR4A2M	
5				XS2F-M12PUR4A5M		
10				XS2F-M12PUR4A10M		