Round Water-resistant Connectors (M12) Single-ended Cables

XS2F-M12

Water- and Environment-resistive FA Connectors Save Wiring and Maintenance Effort

- Single-ended cables with M12 connectors satisfy IP67 requirements and ensure a 94V-0 fire retardant rating.
- Connectors make wiring a system more modular, simplify maintenance, and reduce downtime.
- Connectors with Cables and Connector Assemblies are available.



■ Ratings and Specifications

Item	4, 5 Poles
Rated current	4 A
Rated voltage	250 VDC
Contact resistance	$40~\text{m}\Omega$ max. (20 mV max., 100 mA max.)
Insulation resistance	1,000 MΩ min. (at 500 VDC)
Dielectric strength (leakage current: 1 mA max.)	1,500 VAC for 1 min
Degree of protection	IP67 (IEC60529)
Insertion tolerance	200 times min.

■ PVC Cable

Item	3 cores	4 cores	5 cores	
Color	Black			
Outer diameter	5 mm dia.	5.4 mm dia.	5.8 mm dia.	
Conductor size	AWG22 0.34 mm ² (43 × 0.1)			
Approvals	AWM			
Features	Flame retardant			
Temperature range	Cable fixed: -10 to +80°C Cable moved: -0 to +60°C			

■ PUR Cable

Item	3 cores	4 cores	5 cores	
Color	Black			
Outer diameter	4.3 mm dia.	4.7 mm dia.	5 mm dia.	
Conductor size	AWG22 0.34 mm ² (43 × 0.1)			
Approvals	AWM			
Features	Flame retardant Halogen free Oil resistance			
Temperature range	Cable fixed: -50 to +80°C / Cable moved: -25 to +80°C			

■ Material

Contact / Surface	Copper Alloy / Nickel base, Au 0.4 µm		
Connector housing	PBT resin (UL94V-0)		
Nut / Surface	Copper Alloy / Nickel plated		
Cover (XS2F/H/W/R)	PBT resin (UL94V-0)		

4-Pin and 5-Pin Connectors, Single Keyway

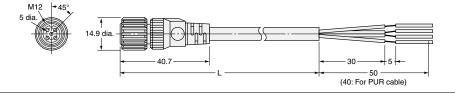
■ XS2F - M12 Single-ended Cable with Socket

XS2F	-M12PVC□□□□M PVC Cable	C-1 18
XS2F	-M12PUR□□□□M PUR Cable	c 744 us

<u>Dimensions</u> (Unit: mm)

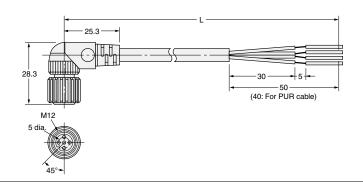
Straight



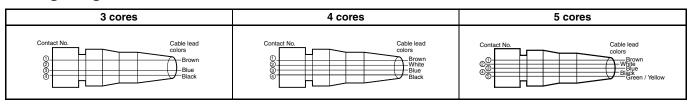


Angled





Wiring Diagram

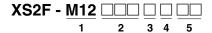


Ordering Information

Connector	Size	Cable material	Cores	Shape	Length (m)	Product description
					2	XS2F-M12PVC3A2M
			3	Angled	5	XS2F-M12PVC3A5M
					10	XS2F-M12PVC3A10M
				Straight	2	XS2F-M12PVC3S2M
					5	XS2F-M12PVC3S5M
					10	XS2F-M12PVC3S10M
				Angled	2	XS2F-M12PVC4A2M
		PVC			5	XS2F-M12PVC4A5M
		FVC	4		10	XS2F-M12PVC4A10M
			4		2	XS2F-M12PVC4S2M
				Straight	5	XS2F-M12PVC4S5M
					10	XS2F-M12PVC4S10M
					2	XS2F-M12PVC5A2M
			-	Angled	5	XS2F-M12PVC5A5M
			5	Ctroight	2	XS2F-M12PVC5S2M
Socket	M12			Straight	5	XS2F-M12PVC5S5M
Socker					2	XS2F-M12PUR3A2M
		PUR	3	Angled	5	XS2F-M12PUR3A5M
					10	XS2F-M12PUR3A10M
				Straight	2	XS2F-M12PUR3S2M
					5	XS2F-M12PUR3S5M
					10	XS2F-M12PUR3S10M
			4	Angled	2	XS2F-M12PUR4A2M
					5	XS2F-M12PUR4A5M
					10	XS2F-M12PUR4A10M
				Straight	2	XS2F-M12PUR4S2M
					5	XS2F-M12PUR4S5M
					10	XS2F-M12PUR4S10M
			5	Appled	2	XS2F-M12PUR5A2M
				Angled	5	XS2F-M12PUR5A5M
				Ctroight	2	XS2F-M12PUR5S2M
				Straight	5	XS2F-M12PUR5S5M

Model Number Legend

Use this model number legend to identify products from their model number. When ordering, use a model number from the table in *Ordering Information*.



- 1. Screw Type
 - M12: M12 size
- 2. Cable type
 - PVC: PVC cable PUR: PUR cable
- 3. Number of Cores
 - 3: 3 cores
 - 4: 4 cores
 - 5: 5 cores

- 4. Connector Shape
 - A: Angled
 - S: Straight
- 5. Cable Length
 - 2M: 2 m
 - 5M: 5 m
 - 10M: 10 m



OMRON ELECTRONICS LLC • THE AMERICAS HEADQUARTERS • Schaumburg, IL USA • 847.843.7900 • 800.556.6766 • www.omron247.com

OMRON CANADA, INC. • HEAD OFFICE

Toronto, ON, Canada • 416.286.6465 • 866.986.6766 www.omron247.com

OMRON ELETRÔNICA DO BRASIL LTDA • HEAD OFFICE

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OMRON ELECTRONICS MEXICO SA DE CV • HEAD OFFICE Apodaca, N.L. • 52.811.156.99.10 • 001.800.556.6766 • mela@omron.com **OMRON ARGENTINA • SALES OFFICE**

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OMRON EUROPE B.V. Wegalaan 67-69, NL-2132 JD, Hoofddorp, The Netherlands. Tel: +31 (0) 23 568 13 00 Fax: +31 (0) 23 568 13 88 www.industrial.omron.eu