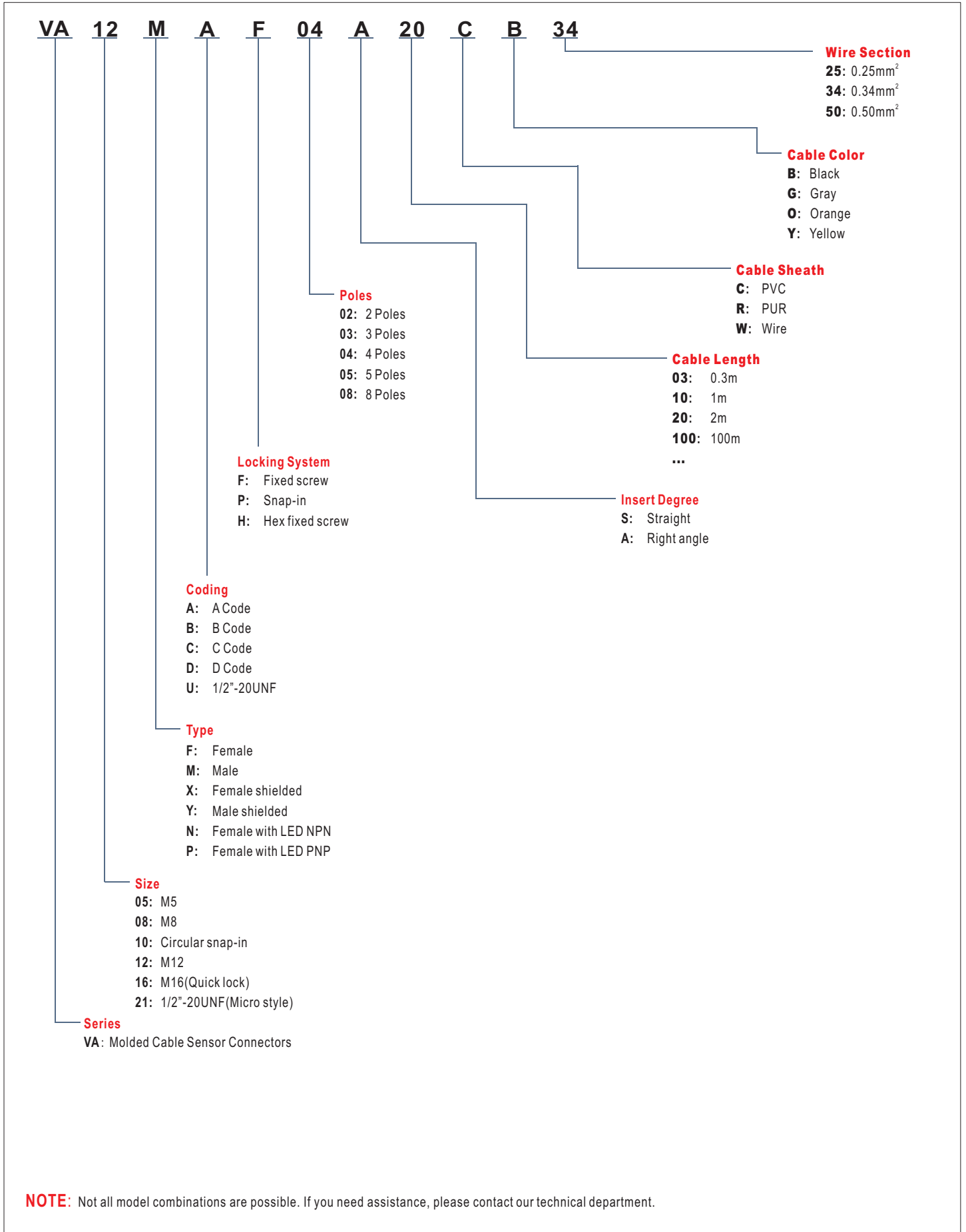




**SELECTION GUIDE FOR MOLDED CABLE SENSOR CONNECTORS**

**VA Series Molded Cable Sensor Connectors**



**NOTE:** Not all model combinations are possible. If you need assistance, please contact our technical department.



**Features**

- M8 Molded Cable
- Fix Screw Locking
- Male, Female
- Straight, Right Angle
- Shielded, Non-Shielded
- IP67 Protection, IP68 Protection
- A-Coded

(Unit: mm)



Connector Series		M8				
Locking Type		Fix Screw				
Gender		Male				
Poles		3	4	5	6	8
Face View						
Straight	Non-Shielded	MA08MAF03S20CB25	MA08MAF04S20CB25	MA08MAF05S20CB25	MA08MAF06S20CB14	MA08MAF08S20CB14
	Shielded	MA08YAF03S20CB25	MA08YAF04S20CB25	MA08YAF05S20CB25	MA08YAF06S20CB14	MA08YAF08S20CB14
Right Angle	Non-Shielded	MA08MAF03A20CB25	MA08MAF04A20CB25	MA08MAF05A20CB25	MA08MAF06A20CB14	MA08MAF08A20CB14
	Shielded	MA08YAF03A20CB25	MA08YAF04A20CB25	MA08YAF05A20CB25	MA08YAF06A20CB14	MA08YAF08A20CB14
Gender		Female				
Poles		3	4	5	6	8
Face View						
Straight	Non-Shielded	MA08FAF03S20CB25	MA08FAF04S20CB25	MA08FAF05S20CB25	MA08FAF06S20CB14	MA08FAF08S20CB14
	Shielded	MA08XAF03S20CB25	MA08XAF04S20CB25	MA08XAF05S20CB25	MA08XAF06S20CB14	MA08XAF08S20CB14
Right Angle	Non-Shielded	MA08FAF03A20CB25	MA08FAF04A20CB25	MA08FAF05A20CB25	MA08FAF06A20CB14	MA08FAF08A20CB14
	Shielded	MA08XAF03A20CB25	MA08XAF04A20CB25	MA08XAF05A20CB25	MA08XAF06A20CB14	MA08XAF08A20CB14
Shielded	Shielded, Non-Shielded					
Coding	A-Coded					
Assembly Style	Molded Cable					
Connector Insert	PA+GF					
Mold Material	PVC					
Connector Contacts	Brass with gold plated					
Coupling Nut/Screw	Brass with nickel plated					
Sealing	Viton					
Waterproof Rating	IP67 / IP68					
Protection Degree	1m water 30 minutes					
Standard	IEC 61076-2-104					
Rated Voltage	60VAC / 70VDC					
Insulation Resistance	>500MΩ, 500VDC					
Rated Current	4A					
Contact Resistance	<5mΩ					
Ambient Temperature	-45°C~+105°C					
Cable Jacket	PVC/PUR					
Cable Length	2m Standard, other cable length are optical					
Wire Gage	24AWG					
Wire Size	0.25mm <sup>2</sup> , 0.14mm <sup>2</sup>					
Test Voltage	>1KV eff./60s					
Breakdown Voltage	Normal temperature, >2.5KV; Water, 1KV					
Durability	3K plug/unplug cycles					
Remarks	Contact us if special specifications.					



**Features**

- M8 Molded Cable
- With LED
- Fix Screw Locking
- Female
- Right Angle
- Non-Shielded
- IP67 Protection, IP68 Protection
- A-Coded

**PNP-NO**

**NPN-NO**

(Unit: mm)



Connector Series		M8				
Locking Type		Fix Screw				
Gender		Male				
Poles		3	4	5	6	8
Face View						
Straight	PNP-NO					
	NPN-NO					
Right Angle	PNP-NO					
	NPN-NO					
Gender		Female				
Poles		3	4	5	6	8
Face View						
Straight	PNP-NO					
	NPN-NO					
Right Angle	PNP-NO	MA08PAF03A20CB25				
	NPN-NO	MA08NAF03A20CB25				
Shielded		Non-Shielded				
Coding		A-Coded				
Assembly Style		Molded Cable				
Connector Insert		PA+GF				
Mold Material		PVC				
Connector Contacts		Brass with gold plated				
Coupling Nut/Screw		Brass with nickel plated				
Sealing		Viton				
Waterproof Rating		IP67 / IP68				
Protection Degree		1m water 30 minutes				
Standard		IEC 61076-2-104				
Rated Voltage		60VAC / 70VDC				
Insulation Resistance		>500MΩ, 500VDC				
Rated Current		4A				
Contact Resistance		<5mΩ				
Ambient Temperature		-45°C~+105°C				
Cable Jacket		PVC/PUR				
Cable Length		2m Standard, other cable length are optical				
Wire Gage		24AWG				
Wire Size		0.25mm <sup>2</sup> , 0.14mm <sup>2</sup>				
Test Voltage		>1KV eff./60s				
Breakdown Voltage		Normal temperature, >2.5KV; Water, 1KV				
Durability		3K plug/unplug cycles				
Remarks		Contact us if special specifications.				



**Features**

- M8 Molded Cable
- Snap-In Locking
- Male, Female
- Straight, Right Angle
- Non-Shielded
- IP67 Protection, IP68 Protection
- A-Coded

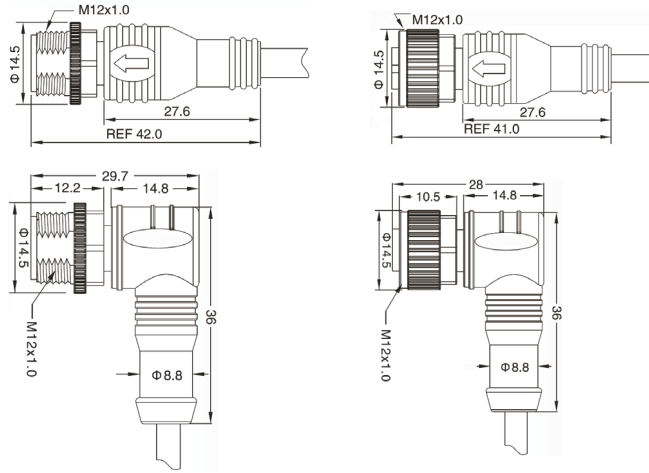
(Unit: mm)

Connector Series		M8				
Locking Type		Snap In				
Gender		Male				
Poles		3	4	5	6	8
Face View						
Straight	Non-Shielded	MA08MAP03S20CB25	MA08MAP04S20CB25			
	Shielded					
Right Angle	Non-Shielded	MA08MAP03A20CB25	MA08MAP04A20CB25			
	Shielded					
Gender		Female				
Poles		3	4	5	6	8
Face View						
Straight	Non-Shielded	MA08FAP03S20CB25	MA08FAP04S20CB25			
	Shielded					
Right Angle	Non-Shielded	MA08FAP03A20CB25	MA08FAP04A20CB25			
	Shielded					
Shielded	Non-Shielded					
Coding	A-Coded					
Assembly Style	Molded Cable					
Connector Insert	PA+GF					
Mold Material	PVC					
Connector Contacts	Brass with gold plated					
Connector Overmold	TPU					
Sealing	Viton					
Waterproof Rating	IP65					
Protection Degree	1m water 30 minutes					
Standard	IEC 61076-2-104					
Rated Voltage	60VAC / 70VDC					
Insulation Resistance	>500MΩ, 500VDC					
Rated Current	4A					
Contact Resistance	<5mΩ					
Ambient Temperature	-45°C~+105°C					
Cable Jacket	PVC/PUR					
Cable Length	2m Standard, other cable length are optical					
Wire Gage	24AWG					
Wire Size	0.25mm <sup>2</sup> , 0.14mm <sup>2</sup>					
Test Voltage	>1KV eff./60s					
Breakdown Voltage	Normal temperature, >2.5KV; Water, 1KV					
Durability	3K plug/unplug cycles					
Remarks	Contact us if special specifications.					



**Features**

- M12 Molded Cable
- Fix Screw Locking
- Male, Female
- Straight, Right Angle
- Shielded, Non-Shielded
- IP67 Protection, IP68 Protection
- A-Coded



(Unit: mm)

Connector Series		M12				
Locking Type		Fix Screw				
Gender		Male				
Poles		3	4	5	8	12
Face View						
Straight	Non-Shielded	MA12MAF03S20CB34	MA12MAF04S20CB34	MA12MAF05S20CB34	MA12MAF08S20CB25	MA12MAF12S20CB14
	Shielded	MA12YAF03S20CB34	MA12YAF04S20CB34	MA12YAF05S20CB34	MA12YAF08S20CB25	MA12YAF12S20CB14
Right Angle	Non-Shielded	MA12MAF03A20CB34	MA12MAF04A20CB34	MA12MAF05A20CB34	MA12MAF08A20CB25	MA12MAF12A20CB14
	Shielded	MA12YAF03A20CB34	MA12YAF04A20CB34	MA12YAF05A20CB34	MA12YAF08A20CB25	MA12YAF12A20CB14
Gender		Female				
Poles		3	4	5	8	12
Face View						
Straight	Non-Shielded	MA12FAF03S20CB34	MA12FAF04S20CB34	MA12FAF05S20CB34	MA12FAF08S20CB25	MA12FAF12S20CB14
	Shielded	MA12XAF03S20CB34	MA12XAF04S20CB34	MA12XAF05S20CB34	MA12XAF08S20CB25	MA12XAF12S20CB14
Right Angle	Non-Shielded	MA12FAF03A20CB34	MA12FAF04A20CB34	MA12FAF05A20CB34	MA12FAF08A20CB25	MA12FAF12A20CB14
	Shielded	MA12XAF03A20CB34	MA12XAF04A20CB34	MA12XAF05A20CB34	MA12XAF08A20CB25	MA12XAF12A20CB14
Shielded	Shielded, Non-Shielded					
Coding	A-Coded					
Assembly Style	Molded Cable					
Connector Insert	PA+GF					
Mold Material	PVC					
Connector Contacts	Brass with gold plated					
Coupling Nut/Screw	Brass with nickel plated					
Sealing	Viton					
Waterproof Rating	IP67 / IP68					
Protection Degree	1m water 30 minutes					
Standard	IEC 61076-2-104					
Rated Voltage	60VAC / 70VDC					
Insulation Resistance	>500MΩ, 500VDC					
Rated Current	4A					
Contact Resistance	<5mΩ					
Ambient Temperature	-45°C~+105°C					
Cable Jacket	PVC/PUR					
Cable Length	2m Standard, other cable length are optical					
Wire Gage	24AWG					
Wire Size	0.25mm <sup>2</sup> , 0.14mm <sup>2</sup>					
Test Voltage	>1KV eff./60s					
Breakdown Voltage	Normal temperature, >2.5KV; Water, 1KV					
Durability	3K plug/unplug cycles					
Remarks	Contact us if special specifications.					



**Features**

- M12 Molded Cable
- Fix Screw Locking
- Male, Female
- Straight, Right Angle
- Shielded, Non-Shielded
- IP67 Protection, IP68 Protection
- B-Coded

(Unit: mm)

Connector Series		M12				
Locking Type		Fix Screw				
Gender		Male				
Poles		3	4	5		
Face View						
Straight	Non-Shielded	MA12MBF03S20CB34	MA12MBF04S20CB34	MA12MBF05S20CB34		
	Shielded	MA12YBF03S20CB34	MA12YBF04S20CB34	MA12YBF05S20CB34		
Right Angle	Non-Shielded	MA12MBF03A20CB34	MA12MBF04A20CB34	MA12MBF05A20CB34		
	Shielded	MA12YBF03A20CB34	MA12YBF04A20CB34	MA12YBF05A20CB34		
Gender		Female				
Poles		3	4	5		
Face View						
Straight	Non-Shielded	MA12FBF03S20CB34	MA12FBF04S20CB34	MA12FBF05S20CB34		
	Shielded	MA12XBF03S20CB34	MA12XBF04S20CB34	MA12XBF05S20CB34		
Right Angle	Non-Shielded	MA12FBF03A20CB34	MA12FBF04A20CB34	MA12FBF05A20CB34		
	Shielded	MA12XBF03A20CB34	MA12XBF04A20CB34	MA12XBF05A20CB34		
Shielded		Shielded, Non-Shielded				
Coding		B-Coded				
Assembly Style		Molded Cable				
Connector Insert		PA+GF				
Mold Material		PVC				
Connector Contacts		Brass with gold plated				
Coupling Nut/Screw		Brass with nickel plated				
Sealing		Viton				
Waterproof Rating		IP67 / IP68				
Protection Degree		1m water 30 minutes				
Standard		IEC 61076-2-104				
Rated Voltage		60VAC / 70VDC				
Insulation Resistance		>500MΩ, 500VDC				
Rated Current		4A				
Contact Resistance		<5mΩ				
Ambient Temperature		-45°C~+105°C				
Cable Jacket		PVC/PUR				
Cable Length		2m Standard, other cable length are optical				
Wire Gage		24AWG				
Wire Size		0.25mm <sup>2</sup> , 0.14mm <sup>2</sup>				
Test Voltage		>1KV eff./60s				
Breakdown Voltage		Normal temperature, >2.5KV; Water, 1KV				
Durability		3K plug/unplug cycles				
Remarks		Contact us if special specifications.				



**Features**

- M12 Molded Cable
- Fix Screw Locking
- Male, Female
- Straight, Right Angle
- Shielded, Non-Shielded
- IP67 Protection, IP68 Protection
- A-Coded

(Unit: mm)

Connector Series		M12			
Locking Type		Fix Screw			
Gender		Male			
Poles		3	4	5	6
Face View					
Straight	Non-Shielded	MA12MCF03S20CB34	MA12MCF04S20CB34	MA12MCF05S20CB34	MA12MCF06S20CB25
	Shielded	MA12YCF03S20CB34	MA12YCF04S20CB34	MA12YCF05S20CB34	MA12YCF06S20CB25
Right Angle	Non-Shielded	MA12MCF03A20CB34	MA12MCF04A20CB34	MA12MCF05A20CB34	MA12MCF06A20CB25
	Shielded	MA12YCF03A20CB34	MA12YCF04A20CB34	MA12YCF05A20CB34	MA12YCF06A20CB25
Gender		Female			
Poles		3	4	5	6
Face View					
Straight	Non-Shielded	MA12FCF03S20CB34	MA12FCF04S20CB34	MA12FCF05S20CB34	MA12FCF06S20CB25
	Shielded	MA12XCF03S20CB34	MA12XCF04S20CB34	MA12XCF05S20CB34	MA12XCF06S20CB25
Right Angle	Non-Shielded	MA12FCF03A20CB34	MA12FCF04A20CB34	MA12FCF05A20CB34	MA12FCF06A20CB25
	Shielded	MA12XCF03A20CB34	MA12XCF04A20CB34	MA12XCF05A20CB34	MA12XCF06A20CB25
Shielded	Shielded, Non-Shielded				
Coding	C-Coded				
Assembly Style	Molded Cable				
Connector Insert	PA+GF				
Mold Material	PVC				
Connector Contacts	Brass with gold plated				
Coupling Nut/Screw	Brass with nickel plated				
Sealing	Viton				
Waterproof Rating	IP67 / IP68				
Protection Degree	1m water 30 minutes				
Standard	IEC 61076-2-104				
Rated Voltage	60VAC / 70VDC				
Insulation Resistance	>500MΩ, 500VDC				
Rated Current	4A				
Contact Resistance	<5mΩ				
Ambient Temperature	-45°C~+105°C				
Cable Jacket	PVC/PUR				
Cable Length	2m Standard, other cable length are optical				
Wire Gage	24AWG				
Wire Size	0.34mm <sup>2</sup> , 0.25mm <sup>2</sup> , 0.14mm <sup>2</sup>				
Test Voltage	>1KV eff./60s				
Breakdown Voltage	Normal temperature, >2.5KV; Water, 1KV				
Durability	3K plug/unplug cycles				
Remarks	Contact us if special specifications.				



**Features**

- 1/2"-20UNF Cable Molded
- Fix Screw Locking
- Male, Female
- Straight, Right Angle
- Shielded, Non-Shielded
- IP67 Protection, IP68 Protection

(Unit: mm)



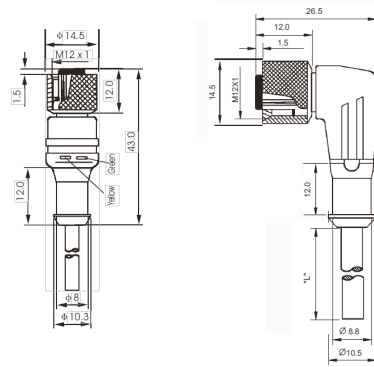
Connector Series		1/2"-20UNF Micro Style				
Locking Type		Fix Screw				
Gender		Male				
Poles		2	3	4	5	6
Face View						
Straight	Non-Shielded	MA21MCF02S20CB34	MA21MCF03S20CB34	MA21MCF04S20CB34	MA21MCF05S20CB25	MA21MCF06S20CB25
	Shielded	MA21YCF02S20CB34	MA21YCF03S20CB34	MA21YCF04S20CB34	MA21YCF05S20CB25	MA21YCF06S20CB25
Right Angle	Non-Shielded	MA21MCF02A20CB34	MA21MCF03A20CB34	MA21MCF04A20CB34	MA21MCF05A20CB25	MA21MCF06A20CB25
	Shielded	MA21YCF02A20CB34	MA21YCF03A20CB34	MA21YCF04A20CB34	MA21YCF05A20CB25	MA21YCF06A20CB25
Gender		Female				
Poles		2	3	4	5	6
Face View						
Straight	Non-Shielded	MA21FCF02S20CB34	MA21FCF03S20CB34	MA21FCF04S20CB34	MA21FCF05S20CB25	MA21FCF06S20CB25
	Shielded	MA21XCF02S20CB34	MA21XCF03S20CB34	MA21XCF04S20CB34	MA21XCF05S20CB25	MA21XCF06S20CB25
Right Angle	Non-Shielded	MA21FCF02A20CB34	MA21FCF03A20CB34	MA21FCF04A20CB34	MA21FCF05A20CB25	MA21FCF06A20CB25
	Shielded	MA21XCF02A20CB34	MA21XCF03A20CB34	MA21XCF04A20CB34	MA21XCF05A20CB25	MA21XCF06A20CB25
Shielded		Shielded, Non-Shielded				
Coding		1/2"-20UNF Micro Style				
Assembly Style		Molded Cable				
Connector Insert		PA+GF				
Mold Material		PVC				
Connector Contacts		Brass with gold plated				
Coupling Nut/Screw		Brass with nickel plated				
Sealing		Viton				
Waterproof Rating		IP67 / IP68				
Protection Degree		1m water 30 minutes				
Standard		IEC 61076-2-104				
Rated Voltage		60VAC / 70VDC				
Insulation Resistance		>500MΩ, 500VDC				
Rated Current		4A				
Contact Resistance		<5mΩ				
Ambient Temperature		-45°C~+105°C				
Cable Jacket		PVC/PUR				
Cable Length		2m Standard, other cable length are optical				
Wire Gage		24AWG				
Wire Size		0.34mm <sup>2</sup> , 0.25mm <sup>2</sup> , 0.14mm <sup>2</sup>				
Test Voltage		>1KV eff./60s				
Breakdown Voltage		Normal temperature, >2.5KV; Water, 1KV				
Durability		3K plug/unplug cycles				
Remarks		Contact us if special specifications.				





**Features**

- M12 Molded Cable
- With Built-in LED
- Fix Screw Locking
- Female
- Straight, Right Angle
- Non-Shielded
- IP67 Protection, IP68 Protection
- A-Coded



(Unit: mm)

Connector Series	M12				
Locking Type	Fix Screw				
Gender	Male				
Poles	3		4		
Face View	<p>Blank 1= brown 2= / 3= blue 4= black</p>		<p>Blank 1= brown 2= black 3= blue 4= /</p>		
Wiring	<p><b>A-type</b> PNP-normal open =yellow-green</p>	<p><b>C-type</b> NPN-normal open =yellow-green</p>	<p><b>H-type</b> PNP-normal closed =yellow-green</p>	<p><b>F-type</b> PNP-normal closed/open =yellow-green</p>	<p><b>G-type</b> NPN-normal closed/open =yellow-green</p>
Straight	PNP	MA12PAF03S20CB34-A	MA12PAF03S20CB34-H	MA12PAF04S20CB25-F	MA12PAF04S20CB25-P
	NPN	MA12NAF03S20CB34-C		MA12NAF04S20CB25-G	
Right Angle	PNP	MA12PAF03A20CB34-A	MA12PAF03A20CB34-H	MA12PAF04A20CB25-F	MA12PAF04A20CB25-P
	NPN	MA12NAF03A20CB34-C		MA12NAF04A20CB25-G	
Shielded	Non-Shielded				
Coding	A-Coded				
Assembly Style	Molded Cable				
Connector Insert	PA+GF				
Mold Material	PVC				
Connector Contacts	Brass with gold plated				
Coupling Nut/Screw	Brass with nickel plated				
Sealing	Viton				
Waterproof Rating	IP67 / IP68				
Protection Degree	1m water 30 minutes				
Standard	IEC 61076-2-104				
Rated Voltage	60VAC / 70VDC				
Insulation Resistance	>500MΩ,500VDC				
Rated Current	4A				
Contact Resistance	<5mΩ				
Ambient Temperature	-45°C~+105°C				
Cable Jacket	PVC/PUR				
Cable Length	2m Standard,other cable length are optical				
Wire Gage	24AWG				
Wire Size	0.25mm <sup>2</sup> , 0.14mm <sup>2</sup>				
Test Voltage	>1KV eff./60s				
Breakdown Voltage	Normal temperature, >2.5KV; Water, 1KV				
Durability	3K plug/unplug cycles				
Remarks	Contact us if special specifications.				