

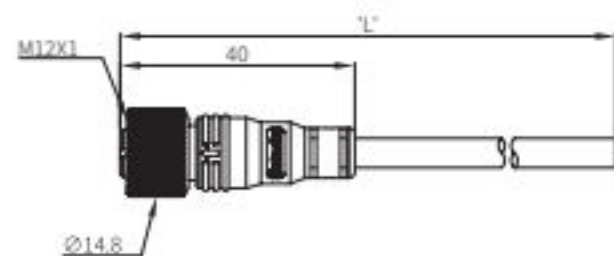
M8/M12 Connector Cable

M12 Connector 4-Pin																		
Power	Connector 1		Connector 2	Wire spec.	Connection	Length	Feature	Application	Model									
AC	M12 (Socket-Female)		2-wire	AWG 22 (0.08 mm, 60-core), Insulator diameter: Ø1.3 mm	<table><tr><th>Pin no.</th><th>Wiring</th></tr><tr><td>1</td><td rowspan="2">→ Brown</td></tr><tr><td>4</td></tr><tr><td>2</td><td rowspan="2">→ Blue</td></tr><tr><td>3</td></tr></table>	Pin no.	Wiring	1	→ Brown	4	2	→ Blue	3	2 m	PVC	Photoelectric sensors/ Proximity sensors / Safety door switches	CIA2-2	
	Pin no.					Wiring												
	1					→ Brown												
	4																	
	2					→ Blue												
	3																	
	M12 (Socket-Female), L type	5 m	CIA2-5															
		2 m	Oil resistant PVC	CIAH2-2														
		5 m		CIAH2-5														
		2 m	PVC	CLA2-2														
		3 m		CLA2-3														
		5 m		CLA2-5														
		2 m	Oil resistant PVC	CLAH2-2														
		5 m		CLAH2-5														
		M12 (Plug-Male)		2-wire	AWG 22 (0.08 mm, 60-core), Insulator diameter: Ø1.3 mm	<table><tr><th>Pin no.</th><th>Wiring</th></tr><tr><td>1</td><td rowspan="2">→ Brown</td></tr><tr><td>4</td></tr><tr><td>2</td><td rowspan="2">→ Blue</td></tr><tr><td>3</td></tr></table>	Pin no.	Wiring	1	→ Brown	4	2	→ Blue	3	2 m		PVC	CIA2-2P
							Pin no.	Wiring										
1	→ Brown																	
4																		
2	→ Blue																	
3																		
5 m	CIA2-5P																	
M12 (Plug-Male), L type	2 m						Oil resistant PVC	CIAH2-2P										
	5 m	CIAH2-5P																
	2 m	PVC	CLA2-2P															
	5 m		CLA2-5P															
	2 m	Oil resistant PVC	CLAH2-2P															
	5 m		CLAH2-5P															

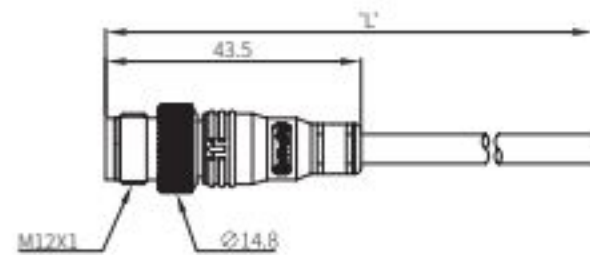
■ Dimensions

- Unit: mm, For the detailed drawings, follow the Autonics website.
- Cable thickness is different by cable material. (PVC: Ø 5 mm / Oil resistant PVC: Ø 6 mm)

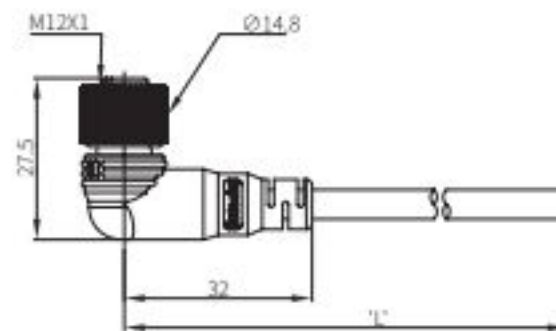
• Socket-Female



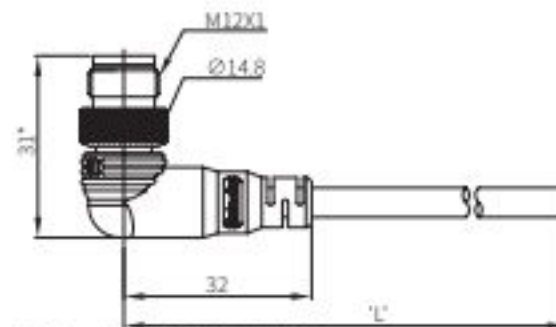
• Plug-Male



• Socket-Female, L type



• Plug-Male, L type



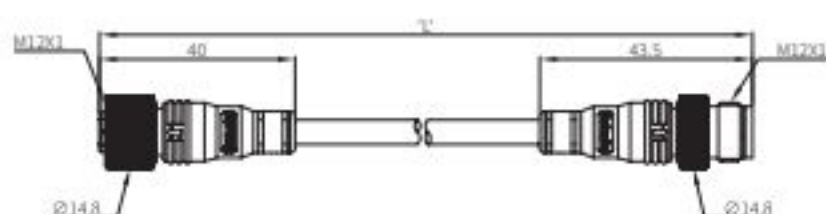
* Oil resistant PVC Model: 31.3

Power	Connector 1		Connector 2		Connection		Length	Feature	Application	Model		
AC	M12 (Socket-Female)	4-pin 	M12 (Plug-Male)	4-pin 	Connector 1 Pin no. 2 3	Connector 2 Pin no. 2 3	2 m	PVC	Photoelectric sensors/ Proximity sensors / Safety door switches	C1A4-2		
	M12 (Socket-Female), L type		M12 (Plug-Male), L type		1 4	1 4	5 m			C1A4-5		
	M12 (Socket-Female)		M12 (Plug-Male), L type		1 4	1 4	2 m			C2A4-2		
	M12 (Socket-Female), L type		M12 (Plug-Male)		Pin 2 / 3, 1 / 4 are connected inside.	2 m	C2A4-5					
					5 m	C3A4-2						
				5 m	C3A4-5							
				2 m	C4A4-2							
				5 m	C4A4-5							

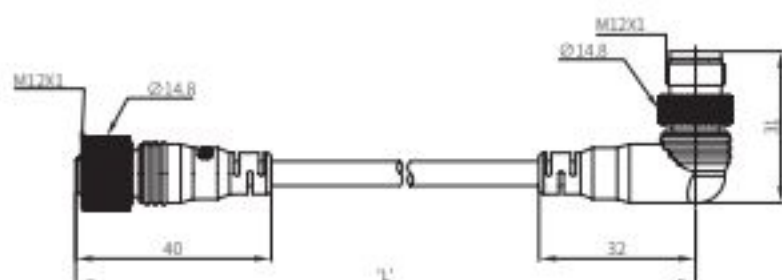
■ Dimensions

- Unit: mm, For the detailed drawings, follow the Autonics website.
- Cable thickness is different by cable material. (PVC: Ø 5 mm / Oil resistant PVC: Ø 6 mm)

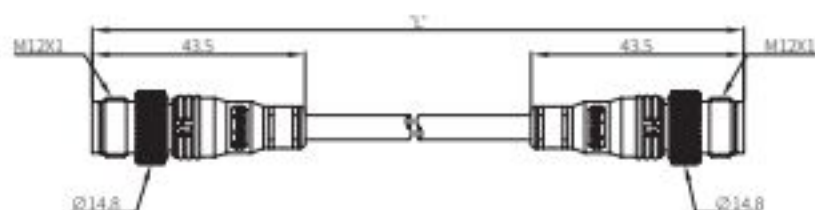
• Socket-Female : Plug-Male



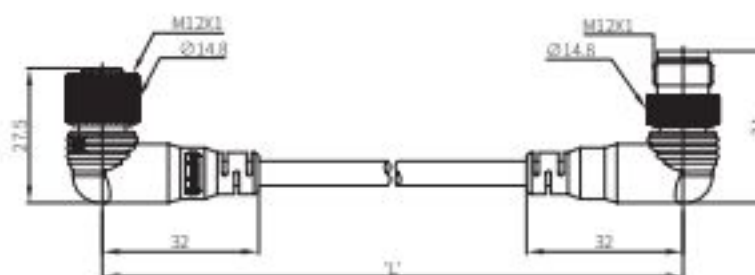
• Socket-Female : Plug-Male, L type



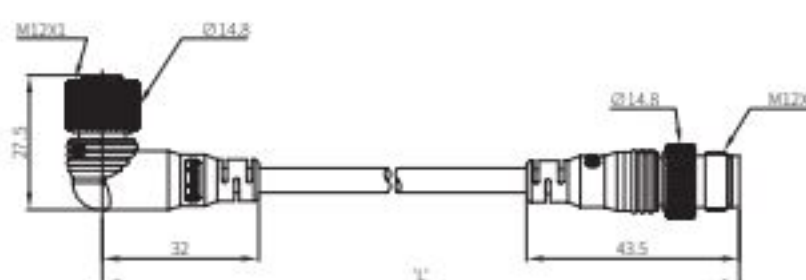
• Plug-Male: Plug-Male



• Socket-Female, L type : Plug-Male, L type



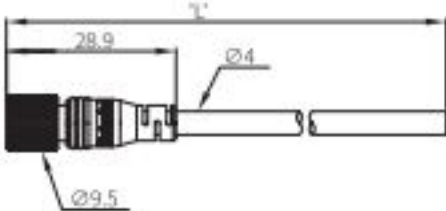
• Socket-Female, L type : Plug-Male

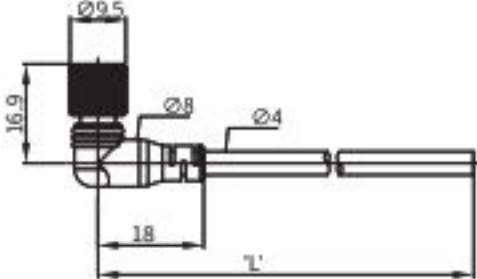


M8 Connector 4-Pin																			
Power	Connector 1		Connector 2	Wire spec.	Connection	Length	Feature	Application	Model										
DC	M8 (Socket-Female)	4-pin 	4-wire	AWG 22 (0.08 mm, 60-core), Insulator diameter: Ø1.65 mm	<table><thead><tr><th>Pin no.</th><th>Wiring</th></tr></thead><tbody><tr><td>1</td><td>→ Brown</td></tr><tr><td>2</td><td>→ White</td></tr><tr><td>3</td><td>→ Blue</td></tr><tr><td>4</td><td>→ Black</td></tr></tbody></table>	Pin no.	Wiring	1	→ Brown	2	→ White	3	→ Blue	4	→ Black	2 m	PVC	Photoelectric sensors/ Proximity sensors	CID408-2
	Pin no.					Wiring													
	1					→ Brown													
	2					→ White													
	3					→ Blue													
	4					→ Black													
	5 m					CID408-5													
	2 m					Oil resistant PVC	CIDH408-2												
	5 m						CIDH408-5												
	M8 (Socket-Female), L type									2 m	PVC	CLD408-2							
5 m		CLD408-5																	
2 m		Oil resistant PVC	CLDH408-2																
5 m			CLDH408-5																

- Dimensions

 - Unit: mm, For the detailed drawings, follow the Autonics website.
 - Cable thickness is different by cable material. (PVC: Ø 4 mm / Oil resistant PVC: Ø 6 mm)
- Socket-Female


- Socket-Female, L type



M12 Connector 4-Pin

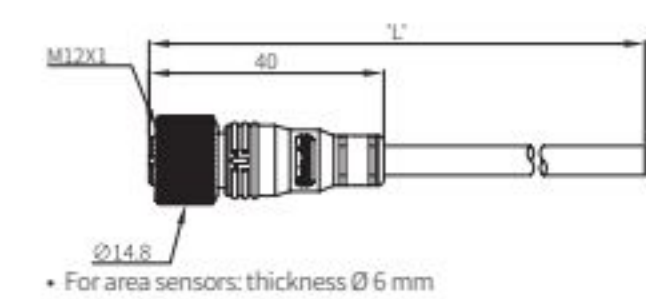
Power	Connector 1		Connector 2	Wire spec.	Connection	Length	Feature	Application	Model										
DC	M12 (Socket-Female)		2-wire	AWG 22 (0.08 mm, 60-core), Insulator diameter: Ø1.3 mm	<table><tr><th>Pin no.</th><th>Wiring</th></tr><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td>→ Blue</td></tr><tr><td>4</td><td>→ Brown</td></tr></table>	Pin no.	Wiring	1		2		3	→ Blue	4	→ Brown	2 m	PVC	Photoelectric sensors/ Proximity sensors / Safety door switches	CID2-2
	Pin no.					Wiring													
	1																		
	2																		
	3	→ Blue																	
	4	→ Brown																	
	M12 (Socket-Female), L type	5 m		CID2-5															
		2 m	Oil resistant PVC	CIDH2-2															
		5 m	Oil resistant PVC	CIDH2-5															
		2 m	PVC	CLD2-2															
	M12 (Socket-Female), L type	5 m	PVC	CLD2-5															
		2 m	Oil resistant PVC	CLDH2-2															
		5 m	Oil resistant PVC	CLDH2-5															
		M12 (Socket-Female)		2-wire	AWG 22 (0.08 mm, 60-core), Insulator diameter: Ø1.3 mm	<table><tr><th>Pin no.</th><th>Wiring</th></tr><tr><td>1</td><td>Brown</td></tr><tr><td>2</td><td>→ Blue</td></tr><tr><td>4</td><td></td></tr><tr><td>3</td><td></td></tr></table>	Pin no.	Wiring	1	Brown	2	→ Blue	4		3		2 m		PVC
	Pin no.						Wiring												
	1						Brown												
	2						→ Blue												
	4																		
	3																		
	M12 (Socket-Female), L type	5 m		CID2-5-I															
		2 m	Oil resistant PVC	CIDH2-2-I															
		5 m	Oil resistant PVC	CIDH2-5-I															
		2 m	PVC	CLD2-2-I															
	M12 (Socket-Female), L type	5 m	PVC	CLD2-5-I															
		2 m	Oil resistant PVC	CLDH2-2-I															
		5 m	Oil resistant PVC	CLDH2-5-I															
		M12 (Plug-Male)		2-wire	AWG 22 (0.08 mm, 60-core), Insulator diameter: Ø1.3 mm	<table><tr><th>Pin no.</th><th>Wiring</th></tr><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td>→ Blue</td></tr><tr><td>4</td><td>→ Brown</td></tr></table>	Pin no.	Wiring	1		2		3	→ Blue	4	→ Brown	2 m		PVC
	Pin no.						Wiring												
	1																		
	2																		
	3	→ Blue																	
	4	→ Brown																	
	M12 (Plug-Male), L type	5 m		CID2-5P															
		2 m	Oil resistant PVC	CIDH2-2P															
		5 m	Oil resistant PVC	CIDH2-5P															
		2 m	PVC	CLD2-2P															
	M12 (Plug-Male), L type	5 m	PVC	CLD2-5P															
		2 m	Oil resistant PVC	CLDH2-2P															
		5 m	Oil resistant PVC	CLDH2-5P															
		M12 (Socket-Female)		3-wire	AWG 22 (0.08 mm, 60-core), Insulator diameter: Ø1.3 mm	<table><tr><th>Pin no.</th><th>Wiring</th></tr><tr><td>1</td><td>→ Brown</td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td>→ Blue</td></tr><tr><td>4</td><td>→ Black</td></tr></table>	Pin no.	Wiring	1	→ Brown	2		3	→ Blue	4	→ Black	2 m		PVC
Pin no.	Wiring																		
1	→ Brown																		
2																			
3	→ Blue																		
4	→ Black																		
M12 (Socket-Female), L type	5 m		CID3-5																
	2 m	Oil resistant PVC	CIDH3-2																
	5 m	Oil resistant PVC	CIDH3-5																
	2 m	PVC	CLD3-2																
M12 (Socket-Female), L type	5 m	PVC	CLD3-5																
	2 m	Oil resistant PVC	CLDH3-2																
	5 m	Oil resistant PVC	CLDH3-5																
	M12 (Plug-Male)		3-wire	AWG 22 (0.08 mm, 60-core), Insulator diameter: Ø1.3 mm	<table><tr><th>Pin no.</th><th>Wiring</th></tr><tr><td>1</td><td>→ Brown</td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td>→ Blue</td></tr><tr><td>4</td><td>→ Black</td></tr></table>	Pin no.	Wiring	1	→ Brown	2		3	→ Blue	4	→ Black	2 m	PVC	CID3-2P	
Pin no.						Wiring													
1						→ Brown													
2																			
3	→ Blue																		
4	→ Black																		
M12 (Plug-Male), L type	5 m		CID3-5P																
	2 m	Oil resistant PVC	CIDH3-2P																
	5 m	Oil resistant PVC	CIDH3-5P																
	2 m	PVC	CLD3-2P																
M12 (Plug-Male), L type	5 m	PVC	CLD3-5P																
	2 m	Oil resistant PVC	CLDH3-2P																
	5 m	Oil resistant PVC	CLDH3-5P																
	M12 (Socket-Female)		4-wire	AWG 22 (0.08 mm, 60-core), Insulator diameter: Ø1.65 mm	<table><tr><th>Pin no.</th><th>Wiring</th></tr><tr><td>1</td><td>→ Brown</td></tr><tr><td>2</td><td>→ White</td></tr><tr><td>3</td><td>→ Blue</td></tr><tr><td>4</td><td>→ Black</td></tr></table> 	Pin no.	Wiring	1	→ Brown	2	→ White	3	→ Blue	4	→ Black				
Pin no.						Wiring													
1						→ Brown													
2						→ White													
3						→ Blue													
4						→ Black													

Power	Connector 1		Connector 2	Wire spec.	Connection	Length	Feature	Application	Model															
DC	M12 (Socket-Female)	4-pin 	4-wire	AWG 22 (0.08 mm, 60-core), insulator diameter: Ø1.25 mm	<table><thead><tr><th>Pin no.</th><th>→</th><th>Wiring</th></tr></thead><tbody><tr><td>1</td><td>→</td><td>Brown</td></tr><tr><td>2</td><td>→</td><td>White</td></tr><tr><td>3</td><td>→</td><td>Blue</td></tr><tr><td>4</td><td>→</td><td>Black</td></tr></tbody></table>	Pin no.	→	Wiring	1	→	Brown	2	→	White	3	→	Blue	4	→	Black	3 m	Black (transmitter)	Area sensors BW Series / BWC Series	CID4-3T
						Pin no.	→	Wiring																
						1	→	Brown																
						2	→	White																
						3	→	Blue																
						4	→	Black																
							Gray (receiver)	CID4-3R																
						5 m	Black (transmitter)	CID4-5T																
							Gray (receiver)	CID4-5R																
						7 m	Black (transmitter)	CID4-7T																
							Gray (receiver)	CID4-7R																
						10 m	Black (transmitter)	CID4-10T																
	Gray (receiver)	CID4-10R																						
15 m	Black (transmitter)	CID4-15T																						
	Gray (receiver)	CID4-15R																						

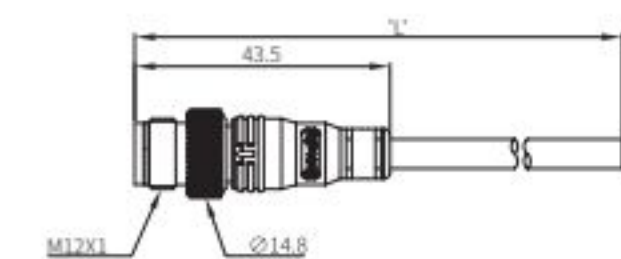
- Dimensions

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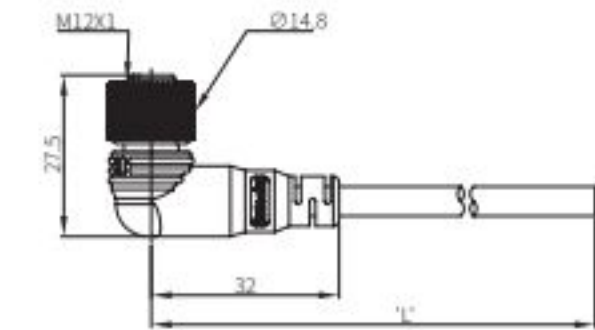
• Socket-Female



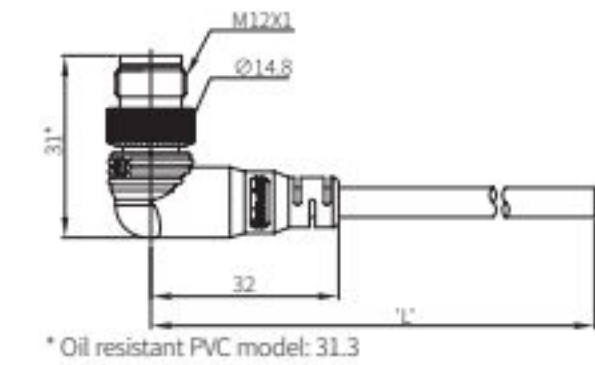
• Plug-Male



• Socket-Female, L type



• Plug-Male, L type

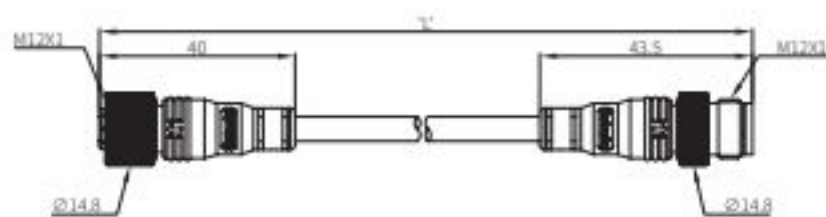


Power	Connector 1		Connector 2		Connection		Length	Feature	Application	Model
DC	M12 (Socket-Female)	4-pin 	M12 (Plug-Male)	4-pin 	Connector 1 Pin no.	Connector 2 Pin no.	2 m	PVC	Photoelectric sensors/ Proximity sensors / Safety door switches	C1D4-2
	M12 (Socket-Female), L type		M12 (Plug-Male), L type		1 → 1	5 m	C1D4-5			
	M12 (Socket-Female)		M12 (Plug-Male), L type		2 →	2 m	C2D4-2			
	M12 (Socket-Female), L type		M12 (Plug-Male)		3 → 3	5 m	C2D4-5			
					4 → 4	2 m	C3D4-2			
						5 m	C3D4-5			
							2 m	C4D4-2		
							5 m	C4D4-5		
	M12 (Socket-Female)	4-pin 	M12 (Plug-Male)	4-pin 			1 m	Oil resistant PVC		C1DH4-1
							3 m			C1DH4-3
							5 m			C1DH4-5
							7 m			C1DH4-7
	M12 (Socket-Female), L type		M12 (Plug-Male), L type		Connector 1 Pin no.	Connector 2 Pin no.	1 m			C2DH4-1
					3 m	C2DH4-3				
					5 m	C2DH4-5				
					7 m	C2DH4-7				
	M12 (Socket-Female)		M12 (Plug-Male), L type		1 → 1	1 m	C3DH4-1			
					2 → 2	3 m	C3DH4-3			
					3 → 3	5 m	C3DH4-5			
					4 → 4	7 m	C3DH4-7			
	M12 (Socket-Female), L type	M12 (Plug-Male)			1 m	C4DH4-1				
					3 m	C4DH4-3				
					5 m	C4DH4-5				
					7 m	C4DH4-7				
	M12 (Plug-Male)	4-pin 	M12 (Plug-Male)	4-pin 	Connector 1 Pin no.	Connector 2 Pin no.	2 m	PVC		C1D4-2P
					1 → 1	5 m	C1D4-5P			
				2 → 2						
				3 → 3						
				4 → 4						

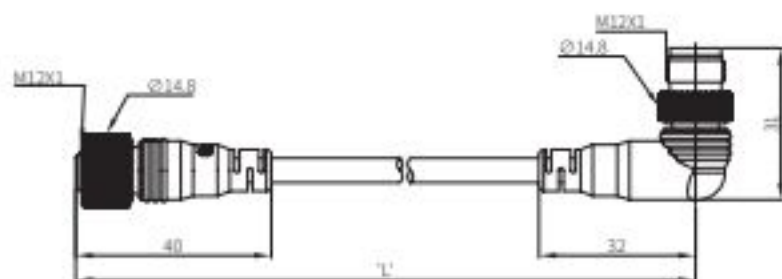
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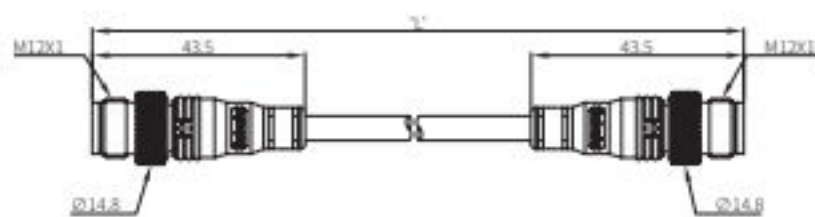
• Socket-Female : Plug-Male



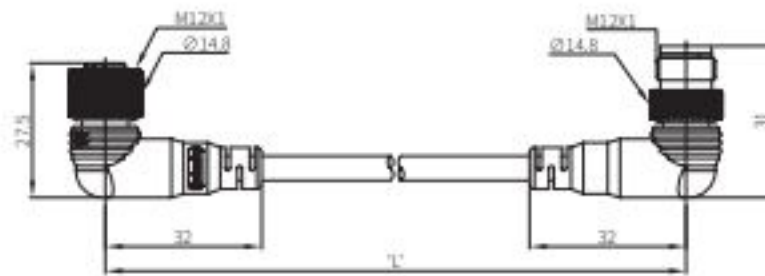
• Socket-Female : Plug-Male, L type



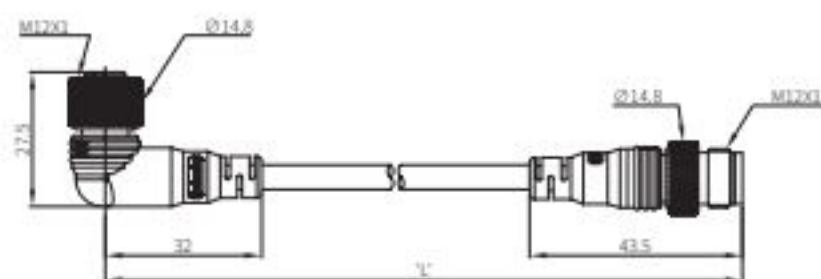
• Plug-Male: Plug-Male



• Socket-Female, L type : Plug-Male, L type



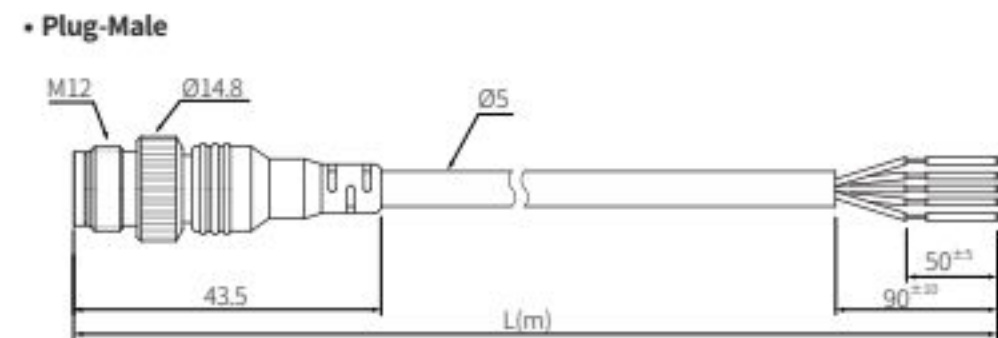
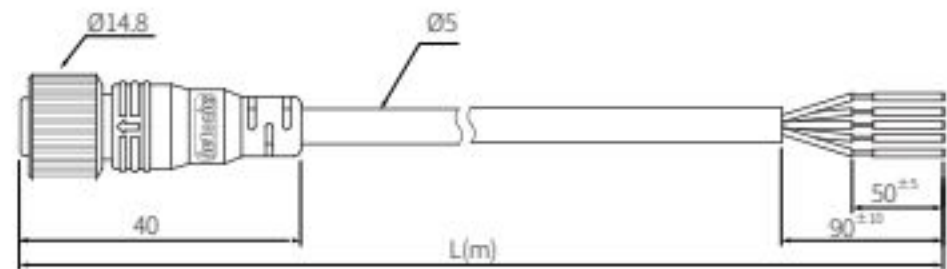
• Socket-Female, L type : Plug-Male



M12 Connector 5-Pin																					
Power	Connector 1		Connector 2	Wire spec.	Connection	Length	Feature	Application	Model												
DC	M12 (Socket-Female)	5-pin	5-wire	AWG 26 (0.08 mm, 28-core), insulator diameter: Ø0.74 mm	<table><thead><tr><th>Pin no.</th><th>Wiring</th></tr></thead><tbody><tr><td>1</td><td>→ Brown</td></tr><tr><td>2</td><td>→ White</td></tr><tr><td>3</td><td>→ Blue</td></tr><tr><td>4</td><td>→ Black</td></tr><tr><td>5</td><td>→ Yellow</td></tr></tbody></table>	Pin no.	Wiring	1	→ Brown	2	→ White	3	→ Blue	4	→ Black	5	→ Yellow	1 m	PVC	Safety non-contact door switches	CID5-1
		Pin no.				Wiring															
		1				→ Brown															
		2				→ White															
		3				→ Blue															
	4	→ Black																			
	5	→ Yellow																			
	2 m	CID5-2																			
	3 m	CID5-3																			
	5 m	CID5-5																			
	7 m	CID5-7																			
	M12 (Plug-Male)	5-pin				1 m	CID5-1P														
		2 m				CID5-2P															
		3 m				CID5-3P															
5 m		CID5-5P																			
7 m		CID5-7P																			

- Dimensions

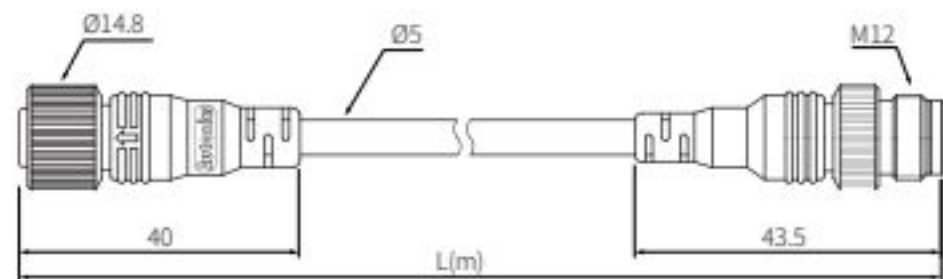
 - Unit: mm, For the detailed drawings, follow the Autonics website.
 - Socket-Female



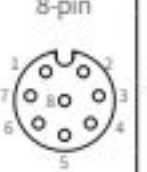
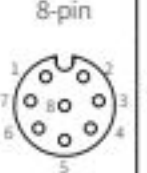
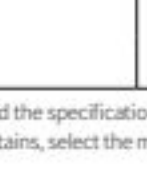
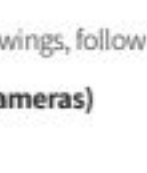
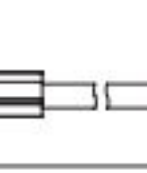
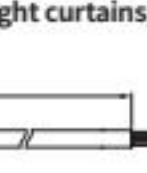
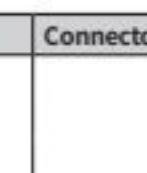
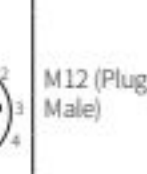
Power	Connector 1		Connector 2		Connection		Length	Feature	Application	Model
DC	M12 (Socket-Female)	5-pin 	M12 (Plug-Male)	5-pin 	Connector 1 Pin no.	Connector 2 Pin no.	1 m	PVC	Safety non-contact door switches	C1D5-1
					1	→ 1	2 m			C1D5-2
					2	→ 2	3 m			C1D5-3
					3	→ 3	5 m			C1D5-5
					4	→ 4	7 m			C1D5-7
					5	→ 5				

- Dimensions

 - Unit: mm, For the detailed drawings, follow the Autonics website.
 - Socket-Female : Plug-Male



M12 Connector 8-Pin

Power	Connector 1		Connector 2	Wire spec.	Connection		Length	Feature	Application	Model	Specification
DC	M12 (Socket-Female)		8-pin	AWG 24 (0.1 mm, 32-core), Insulator diameter: Ø1.17 mm	Pin no.	Color	2 m	Drag chain type 	Smart cameras ⁰¹⁾	CIDM8-2-A	1522901/PUR/2.0-Phoenixcontact
					1	White	5 m			CIDM8-5-A	1522888-Phoenixcontact
	M12 (Socket-Female), L type		8-wire	AWG 24 (0.1 mm, 32-core), Insulator diameter: Ø1.17 mm	2	Brown	10 m			CIDM8-10-A	1522891-Phoenixcontact
					3	Green	2 m			CLDM8-2-A	1522956/PUR/2.0-Phoenixcontact
			8-wire	AWG 24 (0.1 mm, 32-core), Insulator diameter: Ø1.17 mm	4	Yellow	5 m			CLDM8-5-A	1522930-Phoenixcontact
					5	Gray	10 m			CLDM8-10-A	1522943-Phoenixcontact
			8-wire	AWG 24 (0.1 mm, 32-core), Insulator diameter: Ø1.17 mm	6	Pink	3 m	Transmitter	Safety light curtains ⁰²⁾	CID8-3T	Material PUR / PVC
					7	Blue	5 m			CID8-3R	
			8-wire	AWG 24 (0.1 mm, 32-core), Insulator diameter: Ø1.17 mm	8	Red	7 m	Receiver		CID8-5T	
					1	Blue	10 m	Receiver		CID8-5R	
			8-wire	AWG 24 (0.1 mm, 32-core), Insulator diameter: Ø1.17 mm	2	Orange	3 m	Transmitter		CID8-7T	
					3	Yellow	5 m	Receiver		CID8-7R	
			8-wire	AWG 24 (0.1 mm, 32-core), Insulator diameter: Ø1.17 mm	4	Red	7 m	Transmitter		CID8-10T	
					5	Pink	10 m	Receiver		CID8-10R	
			8-wire	AWG 24 (0.1 mm, 32-core), Insulator diameter: Ø1.17 mm	6	Black	3 m	Transmitter			
					7	White	5 m	Receiver			
			8-wire	AWG 24 (0.1 mm, 32-core), Insulator diameter: Ø1.17 mm	8	Brown	7 m	Transmitter			
							10 m	Receiver			

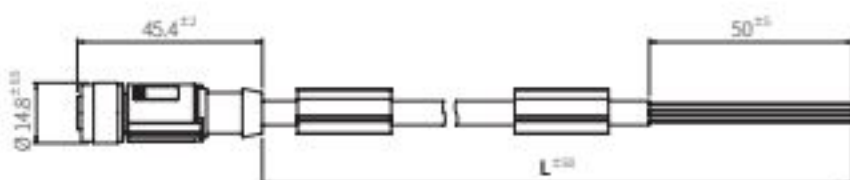
01) The cable for smart cameras are marked the specification.

02) To ordering the cable for safety light curtains, select the material specification.

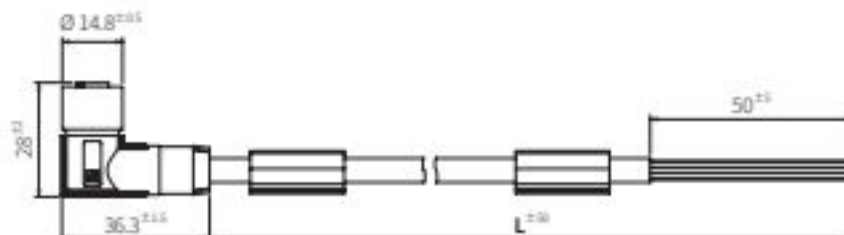
■ Dimensions

• Unit: mm, For the detailed drawings, follow the Autonics website.

• Socket-Female (for smart cameras)



• Socket-Female, L type (for smart cameras)

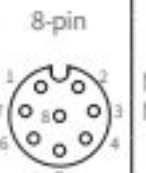
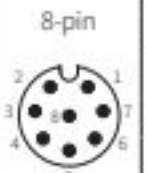


• Socket-Female (for safety light curtains, PUR)



• Socket-Female (for safety light curtains, PVC)



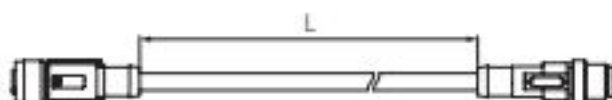
Power	Connector 1		Connector 2	Connection		Length	Feature	Application	Model	Specification	
DC	M12 (Socket-Female)		M12 (Plug-Male)		Connector 1 Pin no.	Connector 2 Pin no.	3 m	Transmitter	Safety light curtains ^(a)	C1D8-3T	Material PUR / PVC
								Receiver		C1D8-3R	
					1	→ 1	5 m	Transmitter		C1D8-5T	
					2	→ 2		Receiver		C1D8-5R	
					3	→ 3	7 m	Transmitter		C1D8-7T	
					4	→ 4		Receiver		C1D8-7R	
					5	→ 5	10 m	Transmitter		C1D8-10T	
					6	→ 6		Receiver		C1D8-10R	
					7	→ 7	15 m	Transmitter		C1D8-15T	
					8	→ 8		Receiver		C1D8-15R	
							20 m	Transmitter		C1D8-20T	
								Receiver		C1D8-20R	

01) To ordering the cable for safety light curtains, select the material specification.

■ Dimensions

• Unit: mm, For the detailed drawings, follow the Autonics website.

• Socket-Female : Plug-Male (for safety light curtains, PUR)



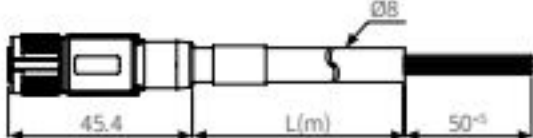
• Socket-Female : Plug-Male (for safety light curtains, PVC)



M12 Connector 12-Pin																																			
Power	Connector 1		Connector 2	Wire spec.	Connection	Length	Application	Model																											
DC	M12 (Socket-Female)		12-wire	AWG 26 (0.1 mm, 18-core), insulator diameter: Ø1 mm		2 m	Vision sensors	CID-2-VG																											
					5 m	CID-5-VG																													
					10 m	CID-10-VG																													
					2 m	CLD-2-VG																													
					5 m	CLD-5-VG																													
					10 m	CLD-10-VG																													
	M12 (Socket-Female), L type				<table><tr><th>Pin no.</th><th>Wiring</th><th>Pin no.</th><th>Wiring</th></tr><tr><td>1</td><td>Brown</td><td>7</td><td>Black</td></tr><tr><td>2</td><td>Blue</td><td>8</td><td>Gray</td></tr><tr><td>3</td><td>White</td><td>9</td><td>Red</td></tr><tr><td>4</td><td>Green</td><td>10</td><td>Purple</td></tr><tr><td>5</td><td>Pink</td><td>11</td><td>Gray/Pink</td></tr><tr><td>6</td><td>Yellow</td><td>12</td><td>Red/Blue</td></tr></table>	Pin no.	Wiring	Pin no.	Wiring	1	Brown	7	Black	2	Blue	8	Gray	3	White	9	Red	4	Green	10	Purple	5	Pink	11	Gray/Pink	6	Yellow	12	Red/Blue		
Pin no.	Wiring	Pin no.	Wiring																																
1	Brown	7	Black																																
2	Blue	8	Gray																																
3	White	9	Red																																
4	Green	10	Purple																																
5	Pink	11	Gray/Pink																																
6	Yellow	12	Red/Blue																																

- Dimensions

 - Unit: mm, For the detailed drawings, follow the Autonics website.
 - Cable thickness is different by cable material. (PVC: Ø 5 mm / Oil resistant PVC: Ø 6 mm)
- Socket-Female


- Socket-Female, L type

