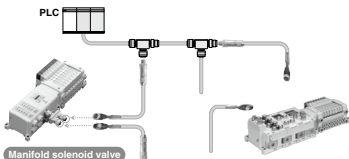


It provides the Fieldbus communication unit and input device applicable to

● Communication Cable/Connector ▶ P. 2158 to P. 2161

● It has a product lineup applicable to any communication standards.

The SMC Fieldbus (SI) Unit can be connected to the PLC (controller) and communication units of other manufacturers with cables with connectors and fieldwireable connectors (with shield) applicable to the standards of CC-Link, DeviceNet™, and PROFIBUS DP.



CC-Link

▶ P.2158

DeviceNet™

▶ P.2159

PROFIBUS®

▶ P.2160

Communication cable

SPEEDCON

Socket (Female)
① For CC-Link
⑤ For DeviceNet™
⑩ For PROFIBUS DP

SPEEDCON

Plug (Male)
② For CC-Link
⑥ For DeviceNet™
⑪ For PROFIBUS DP

Fieldwireable communication connector

Plug (Male)
③ For CC-Link
⑦ For DeviceNet™
⑫ For PROFIBUS DP

Socket (Female)
④ For CC-Link
⑧ For DeviceNet™
⑬ For PROFIBUS DP

Terminal plug (Terminating resistor)

It is connected to the communication port of the communication unit connected at the end.

⑨

For DeviceNet™ (Plug)

⑭

For PROFIBUS DP (Plug/B-coded)

● Product Table

Description	Application	No.	SMC part no.	Name
Cable with connector	For Fieldbus communication	①	PCA-1567720	Communication cable for CC-Link (Socket)
		②	PCA-1567717	Communication cable for CC-Link (Plug)
		⑤	PCA-1557633	Communication cable for DeviceNet™ (Socket)
		⑥	PCA-1557646	Communication cable for DeviceNet™ (Plug)
		⑩	PCA-1557688	Communication cable for PROFIBUS DP (Socket/B-coded)
		⑪	PCA-1557691	Communication cable for PROFIBUS DP (Plug/B-coded)
Fieldwireable connector	For Fieldbus communication	③	PCA-1557617	Fieldwireable connector for CC-Link (Plug/Spring-caged)
		④	PCA-1557620	Fieldwireable connector for CC-Link (Socket/Spring-caged)
		⑦	PCA-1557659	Fieldwireable connector for DeviceNet™ (Plug/Spring-caged)
		⑧	PCA-1557662	Fieldwireable connector for DeviceNet™ (Socket/Spring-caged)
		⑫	PCA-1557701	Fieldwireable connector for PROFIBUS DP (Plug/B-coded/Spring-caged)
		⑬	PCA-1557714	Fieldwireable connector for PROFIBUS DP (Socket/B-coded/Spring-caged)
Terminal plug	For Fieldbus communication	⑨	PCA-1557675	Terminating resistor for DeviceNet™ (M12)
		⑭	PCA-1557727	Terminating resistor for PROFIBUS DP (M12/B-coded)

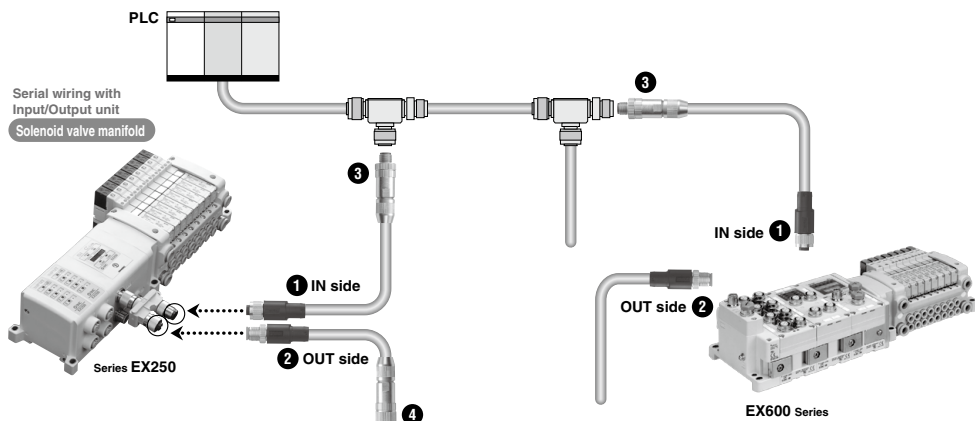
Communication Cable/Connector

M12









CC-Link

Example of Connection



Specifications

Description		Communication cable (With one side connector)		Fieldwireable connector		
Part no.		PCA-1567720	PCA-1567717	PCA-1557617	PCA-1557620	
Product image						
		Socket	Plug	Plug	Socket	
Number of functional poles		M12: 4 poles				
Key type		A-coded (Normal key)				
Pin assignment		<div><div><p>Plug, A-coded (Viewed from the plug/socket side)</p></div><div><p>Socket, A-coded (Viewed from the plug/socket side)</p></div><div><p>1: SLD (Shield wire) 2: DB (White) 3: DG (Yellow) 4: DA (Blue)</p></div></div>				
Wiring Note	Fixed cable length	5 m		Applicable cable	—	
	Cable O.D.	7.7 ±0.3 mm			4.0 to 8.0 mm	
	Wire gauge (Stranded wire cross section)	0.5 mm ² /AWG20		0.14 to 0.5 mm ² /AWG26 to 20		
	Wire outer diameter (including insulating material)	2.55 ±0.07 mm		—		
Connection type		—		Spring-cage connection		
Rating/Performance	Rated current		4 A			
	Rated voltage		250 V			
	Contact resistance		≤5 mΩ			
	Insulation resistance		≥100 MΩ			
	Withstand voltage		1.4 kV			
	Ambient temperature	Connector	-25 to 90°C			
		Cable	Operating	-20 to 60°C		
			Fixed	-20 to 60°C		
	Protection class		IP67 (Only with screw tightened)			
	Allowable repeated insertion/withdrawal		200			
Cable retaining force		150 N/15 sec.				
Material	Material of knurl	Zinc die-cast				
	Contact (Surface treatment)	CuSn (Au plating (Ni plating))				
	Insulating material	Thermoplastic polyurethane (TPU)				
	Material of sheath	Polyvinyl chloride (PVC)				
Weight		Approx. 306 g	Approx. 308 g	Approx. 48 g	Approx. 53 g	

(Note) The shaded parts show the specifications for the applicable cable. Adaptation for the connector may vary on account of the conductor construction of the electric wire.