Material and tools required

Quantity	Item	Order number (Siemens)
1	Mounting rail	e.g. 6ES7390-1AE80-0AA0
1	Power supply (PS) module	e.g. 6ES7307-1EA01-0AA0
1	CPU 314C-2 PN/DP or	e.g. 6ES7314-6EH04-0AB0
	CPU 315-2 PN/DP or	e.g. 6ES7315-2EH14-0AB0
	CPU 317-2 PN/DP or	e.g. 6ES7317-2EK14-0AB0
	CPU 319-3 PN/DP	e.g. 6ES7318-3EL01-0AB0
1	SIMATIC Micro Memory Card	e.g. 6ES7953-8LL20-0AA0
1	• Programming device (PG) or PC with Ethernet network card, 100 Mbps, full duplex • Installed software STEP 7, as of V5.5	depending on the configuration
1	Switch, e.g. SCALANCE X208	e.g. 6GK5208-0BA00-2AA3
1	Industrial Ethernet twisted pair cable (Cat5) with RJ45 connectors (patch cable TP Cord RJ45/RJ45, length = 6 m)	e.g. 6XV1850-2GH60
various	M6 screws and nuts (lengths depend on place of installation) and matching wrench / screwdriver	commonly available
1	Screwdriver with 3.5 mm blade	commonly available
1	Screwdriver with 4.5 mm blade	commonly available
1	Side cutter and cable stripper	commonly available
1	Crimp tool for wire ferrules	commonly available
0.5 m	1-wire flexible cable, conductor cross-section 1 mm^2 with wire-end ferrules, for connecting the power supply and CPU	commonly available
X m	Cable for grounding the mounting rail with 10 mm^2 cross-section and cable lug to fit M6, length appropriate for local requirements.	commonly available
X m	3-wire flexible power cable (230/120 V AC) with "Schuko" plug; length to suit local requirements with suitable wire-end ferrules with shrouded contacts.	commonly available