



SMC66B1-EPAABX1

StepmCon Box 6A 12-72VDC Profinet IP65

SMC66 is the Step Motor Controller series behind the state-of-the-art ServoStep[®] MIS17/23 series of integrated stepper motors with servo control (closed-loop) in the NEMA 17A23 sizes. SMC66 is used in applications where you need a separate controller and stepper motor. Motor currents are from 0 up to 6 Amp. Supply range: 12-72 VDC.

All controllers are programmable and have 8 I/O points (each can be DI or DO or AI). They are also equipped with a RS485 MODBUS RTU and MACTALK up to 1Mbit serial interface and an Encoder input for external encoders. Resolution is 409600 step/rev and 0,01RPM for smooth and low noise operation.

Options include:

- Ethernet interface w/built-in switch for easy daisy-chaining and all protocols (Profinet, EtherNet/IP, EtherCAT, SERCOS, ModbusTCP/UDP and Powerlink).
- SSI or incremental encoder input M12 connector
- CANopen
- STO M8 connector
- PCB or IP65 box with M12
- PCB version with or without M12/cables

Unique Ethernet functionality: use PC software MacTalk[®] to change freely between all the different Ethernet protocols, you dont need several different types on stock – ONE is enough.



General information

Description	StepmCon Box 6A 12-72VDC Profinet IP65, 6xM12. 2x4pF:Profinet 17pF:8xDIO/AI +RS422+RS485 5p:Motor 8p: SSI or AB, 12-72 VDC (Default 6 Amp.), Up to 6 Amp, Hardware version 1. (default), No magnetic chip. , IP65 housing. Motor: M12 Type A female max RMS motor current 3.4 Amp/phase. Peak 5 Amp. Encoder: M12 Type A 8 pin male.		
--------------------	--	--	--

Duty Cycle		Max Duty Cycle [%]	
Manufacture	JVL	Motor type	Stepper Controller
Color	Black	Motor resolution	400 ustep/fullstep
Integrated PLC	Yes	PLC no. of DI/DO/AI	8
Software	MacTalk	Connectivity: Without module	Profinet
Protection house	IP65	Closed loop	
Main supply [V]	12-72	Voltage type - Main	DC
Motor current RMS/Peak [A]	6.0	Control voltage (CVI/O+) [VDC]	12-28
Weight net [kg]	0.35	Weight gross [kg]	0.40
MTBF 100% [Year]		MTBF 30% [Year]	



JVL A/S | Bregnerødvej 127 | DK-3460 Birkerød | Denmark | Tel. (+45) 4582 4440 | www.jvl.dk | sales@jvl.dk

SMC66B1-EPAABX1

StepmCon Box 6A 12-72VDC Profinet IP65

General information

CE Marked

Approval - ROHS-3 Yes

Approval TÜV - STO No

Country Of Origin

Tariff no

85371098

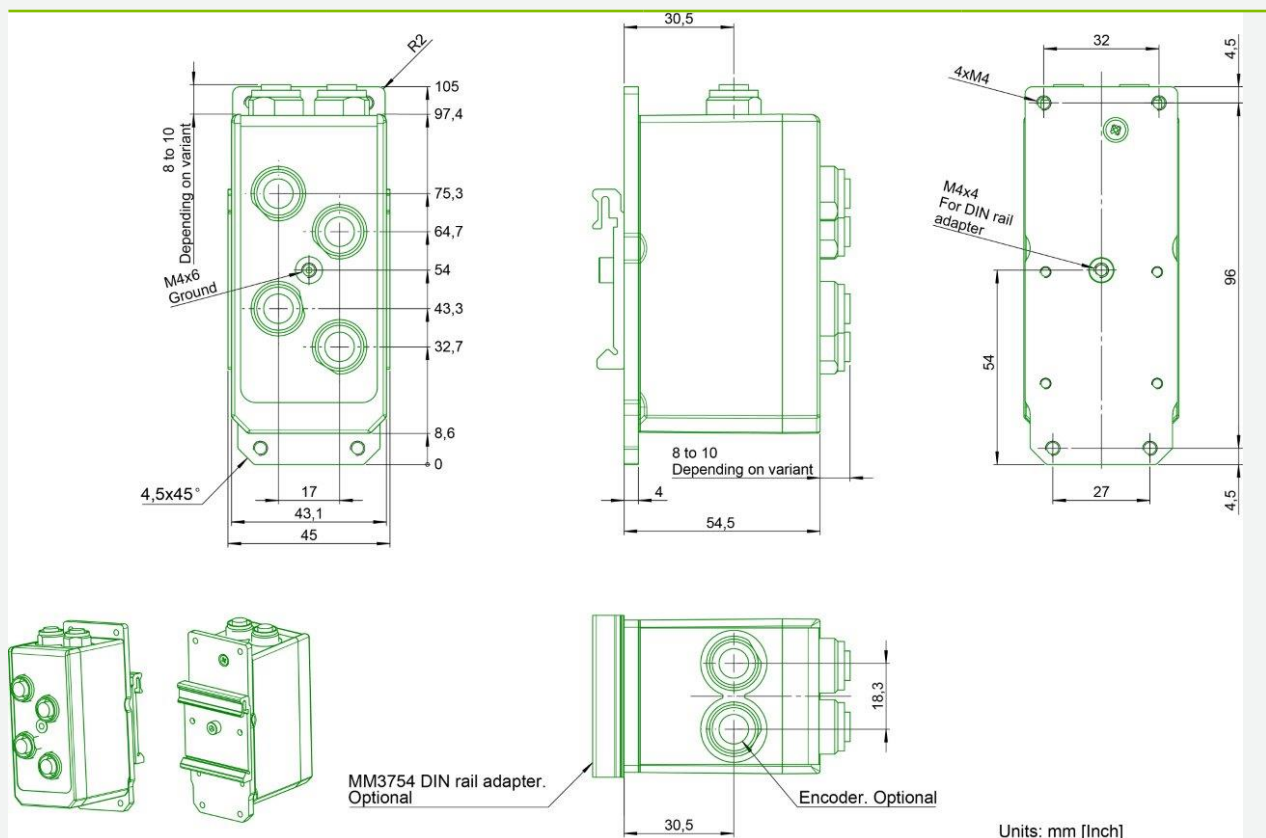
Tariff no US

SMC66B1-EPAABX1

StepmCon Box 6A 12-72VDC Profinet IP65

Mechanical information

Motor type	Stepper Controller	Length [mm]	105.0
Height [mm]	54.5	Width [mm]	43.1
CAD 2D [PDF]		CAD 3D [STEP]	
Datasheet - pdf	Download	User Manual	Download
WEB page	Link	Low voltage Directive	



Control voltage (CVI/O+) [VDC]	12-28	Main supply [V]	12-72
Main supply Min-Max [V]	7-90	Motor current RMS/Peak [A]	6.0



SMC66B1-EPAABX1

StepmCon Box 6A 12-72VDC Profinet IP65

Connector information

Connector 1 label	PWR	Connector 1	M12 5-pin male A-coded
Connector 2 label	CN2	Connector 2	M12 4-pin female D-coded Ethernet
Connector 3 label	CN3	Connector 3	M12 4-pin female D-coded Ethernet
Connector 4 label	CN4	Connector 4	M12 17-pin female A-coded

Connector Motor	M12 5-pin male A-coded	Connector Encoder	M12 8-pin female A-coded shl
Connector STO	No		

Connector 1 RS485	-	Connector 2 RS485	No
Connector 3 RS485	No	Connector 4 RS485	Yes



SMC66B1-EPAABX1

StepmCon Box 6A 12-72VDC Profinet IP65

Electrical information

Control voltage (CVI/O+) [VDC]	12-28	Control Voltage (CVI) Min-Max [VDC]	7-30
Main supply [V]	12-72	Main supply Min-Max [V]	7-90
Voltage type - Main	DC	Motor current RMS/Peak [A]	6.0
Recommended fuse			
Analogue Output [V]		Analogue Output [mA]	
Analogue Isolated Output Voltage [V]			



JVL A/S | Bregnerødvej 127 | DK-3460 Birkerød | Denmark | Tel. (+45) 4582 4440 | www.jvl.dk | sales@jvl.dk

SMC66B1-EPAABX1

StepmCon Box 6A 12-72VDC Profinet IP65

Communication information

e-PLC Files

Ethernet, PLC demo files



SMC66B1-EPAABX1

StepmCon Box 6A 12-72VDC Profinet IP65

Cable information

Item number	Mount on	Cable con 1 +Con 1 angle	Cable application	Wires no totally	Cable length [m]
Item description		Cable con 2 +Con 2 angle	Cable flexibility	Wire [mm2]	Connector 1 LED
WI1000-M12F5T02N	Connector 1	M12 5-pin female A-coded - 180° Straight	Power/Motor/com	5	2
M12 Shl Cable 2m 5 pin Fem 0°, Power		Open Ended - n/a	Standard	0.32	No
WI1000-M12F5T05N	Connector 1	M12 5-pin female A-coded - 180° Straight	Power/Motor/com	5	5
M12 Shl Cable 5m 5 pin Fem 0°, Power		Open Ended - n/a	Standard	0.32	No
WI1000-M12F5T1.2N	Connector 1	M12 5-pin female A-coded - 180° Straight	Power/Motor/com	5	1.2
M12 Shl Cable 1.2m 5 pin Fem 0°, Power		Open Ended - n/a	Standard	0.32	No
WI1000-M12F5T10N	Connector 1	M12 5-pin female A-coded - 180° Straight	Power/Motor/com	5	10
M12 Shl Cable 10m 5 pin Fem 0°, Power		Open Ended - n/a	Standard	0.32	No
WI1000-M12F5T10R	Connector 1	M12 5-pin female A-coded - 180° Straight	Power/Motor/com	5	10
M12 Shl Cable 10m 5 pin Fem 0°, Power, High-flex		Open Ended - n/a	Cable Chains - 2D	0.34	No
WI1000-M12F5T20N	Connector 1	M12 5-pin female A-coded - 180° Straight	Power/Motor/com	5	20
M12 Shl Cable 20m 5 pin Fem 0°, Power		Open Ended - n/a	Standard	0.32	No
WI1000-M12F5TLT0185	Connector 1	M12 5-pin female A-coded - 180° Straight	Power/Motor/com	5	3
M12 shl Cable 3m 5 pin female 0°,PW SPEC		- n/a	Standard	0.32	No
WI1000-M12F5TM5T1.5N	Connector 1	M12 5-pin female A-coded - 180° Straight	Power/Motor/com		1.5
M12 A Code Shl Cable 1.5m 5 pin Female/Male 0° Pow		- n/a			No
WI1000-M12F5V05N	Connector 1	M12 5-pin female A-coded - 90° Angled	Power/Motor/com	5	5
M12 Shl Cable 5m 5 pin Fem 90°, Power		Open Ended - n/a	Standard	0.32	No
WI1000-M12F5V05R	Connector 1	M12 5-pin female A-coded - 90° Angled	Power/Motor/com		5
M12 Shl Cable 5m 5 pin Fem 90°, Power, 3D		- n/a			No
WI1000-M12F5V10N	Connector 1	M12 5-pin female A-coded - 90° Angled	Power/Motor/com	5	10
M12 Shl Cable 10 m 5 pin Fem 90°, Power		Open Ended - n/a	Standard	0.32	No
WI1000-M12F5V20N	Connector 1	M12 5-pin female A-coded - 90° Angled	Power/Motor/com	5	20
M12 Shl Cable 20m 5 pin Fem 90°, Power		Open Ended - n/a	Standard	0.32	No
WI1000-M12F5W05N	Connector 1	M12 5-pin female A-coded - 90° Angled	Power/Motor/com	5	5
M12 Shl Cable 5m LED 5p Fem 90°, Power <50V		Open Ended - n/a	Standard	0.32	LED
WI1000-M12F5W10N	Connector 1	M12 5-pin female A-coded - 90° Angled	Power/Motor/com	5	10
M12 Shl Cable 10m LED 5 p Fem 90°, Power <50V		Open Ended - n/a	Standard	0.32	LED
WI1000-M12F5W15N	Connector 1	M12 5-pin female A-coded - 90° Angled	Power/Motor/com	5	15
M12 Shl Cable 15m LED 5 p Fem 90°, Power <50V		Open Ended - n/a	Standard	0.32	LED
WI1000-M12F5W20N	Connector 1	M12 5-pin female A-coded - 90° Angled	Power/Motor/com	5	20
M12 Shl Cable 20m LED 5 p Fem 90°, Power <50V		Open Ended - n/a	Standard	0.32	LED
WI1000-M12F5WF5W20N	Connector 1	M12 5-pin female A-coded - 90° Angled	Power/Motor/com	5	20
M12 shl cab 20m LED 5 pin female 90',Pow <50V		M12 5-pin female A-coded - n/a	Standard	0.32	LED
WI1005-M12F5TF5T03P	Connector 1	M12 5-pin female A-coded - 180° Straight	Communication		3
M12 Cab 3m, 5p Fem - 5p Fem twistedPair		M12 5-pin female A-coded - n/a		0.32	No
WI1005-M12F5TM5T2.0N	Connector 1	M12 5-pin female A-coded - 180° Straight	Communication		2
M12 cable 2m, 5 pin female - 5pin male		M12 5-pin male A-coded - n/a	Standard	0.32	No
WI1008-M12F5AG1	Connector 1	M12 5-pin female A-coded - 90° Angled	CANopen/DeviceNet		20
M12 Con 5p Fem 90° Spring Ø4-8mm cable		Open Ended - n/a			No
WI1008-M12F5SS1	Connector 1	M12 5-pin female A-coded - 180° Straight	CANopen/DeviceNet	n/a	Connector
M12 Con 5p Fem 0° Solder assembly		- n/a	n/a	n/a	No
WI1008-M12F5TG1	Connector 1	M12 5-pin female A-coded - 180° Straight	CANopen/DeviceNet	n/a	Connector
M12 Con 5p Fem 0° Spring Shield+B222		- n/a	n/a	n/a	No
WI1008-M12F5VG1	Connector 1	M12 5-pin female A-coded - 90° Angled	CANopen/DeviceNet	n/a	Connector
M12 Con 5p Fem 90° Spring Shield		- n/a	n/a	n/a	No
WI1025-M12F5AF5AM5A	Connector 1	M12 5-pin female A-coded - 90° Angled		5	
M12 T-Con 2x Fem 5 p + 1x Male 5 p		M12 5-pin female A-coded - n/a	Standard	0.32	No
WI1025-M12F5AM5A	Connector 1	M12 5-pin female A-coded - 90° Angled		5	
M12 Cabinet Feed-through F5p-M5p		M12 5-pin male A-coded - n/a	Standard	0.32	No
WI1025-M12F5AM5AF5A	Connector 1	M12 5-pin female A-coded - 90° Angled		5	
M12 T-Con Fem 5p+ Male 5p + Fem 5p NoSh		M12 5-pin male A-coded - n/a	Standard	0.32	No
WI1025-M12F5VM5VF5V	Connector 1	M12 5-pin female A-coded - 90° Angled		5	
M12 Shl Y-Con 1xMale 5p + 2x Fem 5p CAN		M12 5-pin male A-coded CAN - n/a	Standard	0.32	No
WI1046-M12M4S.3NRJ45	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	0.3



SMC66B1-EPAABX1

StepmCon Box 6A 12-72VDC Profinet IP65

Cable information

Item number	Mount on	Cable con 1 +Con 1 angle	Cable application	Wires no totally	Cable length [m]
Item description		Cable con 2 +Con 2 angle	Cable flexibility	Wire [mm2]	Connector 1 LED
M12 Cab D-code Ethernet M0°-RJ45, 0,3m, Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4S01NRJ45	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	1
M12 Cab D-code Ethernet M0°-RJ45, 1,0m, Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4S05NRJ45	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	5
M12 Cab D-code Ethernet M0°-RJ45, SFTP, 5m, Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4S05R	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	5
M12 Cab D-code Ethernet M0°, SFTP, 5m Ø7		Open Ended - n/a	Cable chains - 2D	0.13	No
WI1046-M12M4S10NRJ45	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	10
M12 Cab D-code Ethernet M0°-RJ45, 10m, Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4S15NRJ45	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	15
M12 Cab D-code Ethernet M0°-RJ45, 15m, RJ45 Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4S15R	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	15
M12 Cab D-code Ethernet M0°, 15m Ø7		Open Ended - n/a	Cable chains - 2D	0.13	No
WI1046-M12M4T.3TRJ45	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	0.3
M12 Cab D-code Ethernet M0°-RJ45, 0,3m, RJ45 Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4T01TRJ45	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	1
M12 Cab D-code Ethernet M0°-RJ45, 1m, RJ45 Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4T02NRJ45	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	2
M12 Cab D-code Ethernet M0°-RJ45, 2m, Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4T05TRJ45	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	5
M12 Cab D-code Ethernet M0°-RJ45, 5m, Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4T10TRJ45	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	10
M12 Cab D-code Ethernet M0°-RJ45, 10m, Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4T15TRJ45	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	15
M12 Cab D-code Ethernet M0°-RJ45, SFTP, 15m, Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4T20TRJ45	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	20
M12 Cab D-code Ethernet M0°-RJ45, 20m, Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4TM4T.3R	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	0.3
M12 Cab D-code Ethernet M0°-M0°, 0,3m, Ø6		M12 4-pin male D-coded Ethernet - n/a	Robotic - 3D	0.14	No
WI1046-M12M4TM4T.3T	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	0.3
M12 Cab D-code Ethernet M0°-M0°, 0,3m, Ø6		M12 4-pin male D-coded Ethernet - n/a	Standard	0.13	No
WI1046-M12M4TM4T01R	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	1
M12 Cab D-code Ethernet M0°-M0°, 1m, Ø7		M12 4-pin male D-coded Ethernet - n/a	Robotic - 3D	0.14	No
WI1046-M12M4TM4T01T	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	1
M12 Cab D-code Ethernet M0°-M0°, 1m, Ø6		M12 4-pin male D-coded Ethernet - n/a	Standard	0.13	No
WI1046-M12M4TM4T02R	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	2
M12 Cab D-code Ethernet M0°-M0°, 2,0m, Ø7		M12 4-pin male D-coded Ethernet - n/a	Robotic - 3D	0.14	No
WI1046-M12M4TM4T02T	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	2
M12 Cab D-code Ethernet M0°-M0°, 2,0m, Ø6		M12 4-pin male D-coded Ethernet - n/a	Standard	0.13	No
WI1046-M12M4TM4T05R	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	5
M12 Cab D-code Ethernet M0°-M0°, 5m, Ø7		M12 4-pin male D-coded Ethernet - n/a	Robotic - 3D	0.14	No
WI1046-M12M4TM4T05T	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	5
M12 Cab D-code Ethernet M0°-M0°, 5m, Ø6		M12 4-pin male D-coded Ethernet - n/a	Standard	0.13	No
WI1046-M12M4TM4T10R	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	10
M12 Cab D-code Ethernet M0°-M0°, 10m, Ø7		M12 4-pin male D-coded Ethernet - n/a	Robotic - 3D	0.14	No
WI1046-M12M4TM4T10T	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	10
M12 Cab D-code Ethernet M0°-M0°, 10m, Ø6		M12 4-pin male D-coded Ethernet - n/a	Standard	0.13	No
WI1046-M12M4TM4T15R	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	15
M12 Cab D-code Ethernet M0°-M0°, 15m, Ø7		M12 4-pin male D-coded Ethernet - n/a	Robotic - 3D	0.14	No



SMC66B1-EPAABX1

StepmCon Box 6A 12-72VDC Profinet IP65

Cable information

Item number	Mount on	Cable con 1 +Con 1 angle	Cable application	Wires no totally	Cable length [m]
Item description		Cable con 2 +Con 2 angle	Cable flexibility	Wire [mm2]	Connector 1 LED
WI1046-M12M4TM4T20R	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	20
M12 Cab D-code Ethernet M0°-M0°, 20m, Ø7		M12 4-pin male D-coded Ethernet - n/a	Robotic - 3D	0.14	No
WI1046-M12M4TM4T20T	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	20
M12 Cab D-code Ethernet M0°-M0°, 20m, Ø6		M12 4-pin male D-coded Ethernet - n/a	Standard	0.13	No
WI1046-M12M4V02TRJ45	Connector 2	M12 4-pin male D-coded Ethernet - 90° Angled Ethernet		4	2
M12 Cab D-code Ethernet M90°-RJ45, 2m, Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4V05TRJ45	Connector 2	M12 4-pin male D-coded Ethernet - 90° Angled Ethernet		4	5
M12 Cab D-code Ethernet M90°-RJ45, 5m, Ø6		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4VM4T.6N	Connector 2	M12 4-pin male D-coded Ethernet - 90° Angled Ethernet		4	0.6
M12 Cab D-code Ethernet M90°-M0°, 0,6m, Ø6		M12 4-pin male D-coded Ethernet - n/a	Standard	0.13	No
WI1046-M12M4VM4V.6N	Connector 2	M12 4-pin male D-coded Ethernet - 90° Angled Ethernet		4	0.6
M12 Cab D-code Ethernet M90°-M90°, 0,6m, Ø6		M12 4-pin male D-coded Ethernet - n/a	Standard	0.13	No
WI1048-M12M4TTR1	Connector 2	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet		Connector
M12 Con 4 p Male D Code Ethernet PressLock		- n/a	n/a		No
WI1046-M12M4S.3NRJ45	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	0.3
M12 Cab D-code Ethernet M0°-RJ45, 0,3m, Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4S01NRJ45	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	1
M12 Cab D-code Ethernet M0°-RJ45, 1,0m, Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4S05NRJ45	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	5
M12 Cab D-code Ethernet M0°-RJ45, SFTP, 5m, Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4S05R	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	5
M12 Cab D-code Ethernet M0°, SFTP, 5m Ø7		Open Ended - n/a	Cable chains - 2D	0.13	No
WI1046-M12M4S10NRJ45	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	10
M12 Cab D-code Ethernet M0°-RJ45, 10m, Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4S15NRJ45	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	15
M12 Cab D-code Ethernet M0°-RJ45, 15m, RJ45 Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4S15R	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	15
M12 Cab D-code Ethernet M0°, 15m Ø7		Open Ended - n/a	Cable chains - 2D	0.13	No
WI1046-M12M4T.3TRJ45	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	0.3
M12 Cab D-code Ethernet M0°-RJ45, 0,3m, RJ45 Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4T01TRJ45	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	1
M12 Cab D-code Ethernet M0°-RJ45, 1m, RJ45 Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4T02NRJ45	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	2
M12 Cab D-code Ethernet M0°-RJ45, 2m, Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4T05TRJ45	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	5
M12 Cab D-code Ethernet M0°-RJ45, 5m, Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4T10TRJ45	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	10
M12 Cab D-code Ethernet M0°-RJ45, 10m, Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4T15TRJ45	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	15
M12 Cab D-code Ethernet M0°-RJ45, SFTP, 15m, Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4T20TRJ45	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	20
M12 Cab D-code Ethernet M0°-RJ45, 20m, Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4TM4T.3R	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	0.3
M12 Cab D-code Ethernet M0°-M0°, 0,3m, Ø6		M12 4-pin male D-coded Ethernet - n/a	Robotic - 3D	0.14	No
WI1046-M12M4TM4T.3T	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	0.3
M12 Cab D-code Ethernet M0°-M0°, 0,3m, Ø6		M12 4-pin male D-coded Ethernet - n/a	Standard	0.13	No
WI1046-M12M4TM4T01R	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	1
M12 Cab D-code Ethernet M0°-M0°, 1m, Ø7		M12 4-pin male D-coded Ethernet - n/a	Robotic - 3D	0.14	No
WI1046-M12M4TM4T01T	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	1
M12 Cab D-code Ethernet M0°-M0°, 1m, Ø6		M12 4-pin male D-coded Ethernet - n/a	Standard	0.13	No



SMC66B1-EPAABX1

StepmCon Box 6A 12-72VDC Profinet IP65

Cable information

Item number	Mount on	Cable con 1 +Con 1 angle	Cable application	Wires no totally	Cable length [m]
Item description		Cable con 2 +Con 2 angle	Cable flexibility	Wire [mm2]	Connector 1 LED
WI1046-M12M4TM4T02R	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	2
M12 Cab D-code Ethernet M0°-M0°, 2,0m, Ø7		M12 4-pin male D-coded Ethernet - n/a	Robotic - 3D	0.14	No
WI1046-M12M4TM4T02T	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	2
M12 Cab D-code Ethernet M0°-M0°, 2,0m, Ø6		M12 4-pin male D-coded Ethernet - n/a	Standard	0.13	No
WI1046-M12M4TM4T05R	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	5
M12 Cab D-code Ethernet M0°-M0°, 5m, Ø7		M12 4-pin male D-coded Ethernet - n/a	Robotic - 3D	0.14	No
WI1046-M12M4TM4T05T	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	5
M12 Cab D-code Ethernet M0°-M0°, 5m, Ø6		M12 4-pin male D-coded Ethernet - n/a	Standard	0.13	No
WI1046-M12M4TM4T10R	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	10
M12 Cab D-code Ethernet M0°-M0°, 10m, Ø7		M12 4-pin male D-coded Ethernet - n/a	Robotic - 3D	0.14	No
WI1046-M12M4TM4T10T	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	10
M12 Cab D-code Ethernet M0°-M0°, 10m, Ø6		M12 4-pin male D-coded Ethernet - n/a	Standard	0.13	No
WI1046-M12M4TM4T15R	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	15
M12 Cab D-code Ethernet M0°-M0°, 15m, Ø7		M12 4-pin male D-coded Ethernet - n/a	Robotic - 3D	0.14	No
WI1046-M12M4TM4T20R	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	20
M12 Cab D-code Ethernet M0°-M0°, 20m, Ø7		M12 4-pin male D-coded Ethernet - n/a	Robotic - 3D	0.14	No
WI1046-M12M4TM4T20T	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet	4	20
M12 Cab D-code Ethernet M0°-M0°, 20m, Ø6		M12 4-pin male D-coded Ethernet - n/a	Standard	0.13	No
WI1046-M12M4V02TRJ45	Connector 3	M12 4-pin male D-coded Ethernet - 90° Angled Ethernet		4	2
M12 Cab D-code Ethernet M90°-RJ45, 2m, Ø5		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4V05TRJ45	Connector 3	M12 4-pin male D-coded Ethernet - 90° Angled Ethernet		4	5
M12 Cab D-code Ethernet M90°-RJ45, 5m, Ø6		RJ45 male - n/a	Standard	0.13	No
WI1046-M12M4VM4T.6N	Connector 3	M12 4-pin male D-coded Ethernet - 90° Angled Ethernet		4	0.6
M12 Cab D-code Ethernet M90°-M0°, 0,6m, Ø6		M12 4-pin male D-coded Ethernet - n/a	Standard	0.13	No
WI1046-M12M4VM4V.6N	Connector 3	M12 4-pin male D-coded Ethernet - 90° Angled Ethernet		4	0.6
M12 Cab D-code Ethernet M90°-M90°, 0,6m, Ø6		M12 4-pin male D-coded Ethernet - n/a	Standard	0.13	No
WI1048-M12M4TTR1	Connector 3	M12 4-pin male D-coded Ethernet - 180° Straight	Ethernet		Connector
M12 Con 4 p Male D Code Ethernet PressLock		- n/a	n/a		No
WI1005-M12M17SAA01	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 17-pin male Axis 1 Without wire		n/a - n/a	n/a	n/a	No
WI1005-M12M17SAA01W	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 17-pin male Axis 1, with wire 1,2m		n/a - n/a		n/a	No
WI1005-M12M17SAA02	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 17-pin male Axis 2 Without wire		n/a - n/a	n/a	n/a	No
WI1005-M12M17SAA03	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 17-pin male Axis 3 Without wire		n/a - n/a	n/a	n/a	No
WI1005-M12M17SAA04	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 17-pin male Axis 4 Without wire		n/a - n/a	n/a	n/a	No
WI1005-M12M17SAA05	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 17-pin male Axis 5 Without wire		n/a - n/a	n/a	n/a	No
WI1005-M12M17SAA06	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 17-pin male Axis 6 Without wire		n/a - n/a	n/a	n/a	No
WI1005-M12M17SAA06W	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 17-pin male Axis 6 with wire 1,2m		n/a - n/a		n/a	No
WI1005-M12M17SAA07	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 17-pin male Axis 7 Without wire		n/a - n/a	n/a	n/a	No
WI1005-M12M17SAA08	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 17-pin male Axis 8 Without wire		n/a - n/a	n/a	n/a	No
WI1005-M12M17SAA09	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 17-pin male Axis 9 Without wire		n/a - n/a	n/a	n/a	No
WI1005-M12M17SAA10	Connector 4	M12 17-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 17-pin male Axis 10 Without wire		n/a - n/a	n/a	n/a	No
WI1008-M12M17SR1	Connector 4	M12 17-pin male A-coded - 180° Straight	CANopen/DeviceNet	n/a	Connector



SMC66B1-EPAABX1

StepmCon Box 6A 12-72VDC Profinet IP65

Cable information

Item number	Mount on	Cable con 1 +Con 1 angle	Cable application	Wires no totally	Cable length [m]
Item description		Cable con 2 +Con 2 angle	Cable flexibility	Wire [mm2]	Connector 1 LED
M12 Con 17p Male 0° Metal housing 5.4-8.2mm cable		- n/a	n/a	n/a	No
WI1009-M12M17T01N	Connector 4	M12 17-pin male A-coded - 180° Straight	Basic I/O, Com	17	1
M12 Shl Cable 1m 17p Mal 0° MISxx,Ex41 twisted		Open Ended - n/a	Standard	0.061	No
WI1009-M12M17T05N	Connector 4	M12 17-pin male A-coded - 180° Straight	Basic I/O, Com	17	5
M12 Shl Cable 5m 17p Mal 0° MISxx,Ex41 twisted		Open Ended - n/a	Standard	0.061	No
WI1009-M12M17T10R	Connector 4	M12 17-pin male A-coded - 180° Straight	Basic I/O, Com	17	5
M12 Shl Cable 10m 17p Mal 0° MISxx,Ex41 twisted		Open Ended - n/a	Robotic - 3D	0.061	No
WI1009-M12M17T20N	Connector 4	M12 17-pin male A-coded - 180° Straight	Basic I/O, Com	17	20
M12 Shl Cable 20m 17p Mal 0° MISxx,Ex41 twisted		Open Ended - n/a	Standard	0.061	No
WI1009-M12M17TF17T.5	Connector 4	M12 17-pin male A-coded - 180° Straight	Basic I/O, Com	17	0.5
M12 Shl Cable.5m Male17p0°-Female 17p0° twist pair		M12 17-pin female A-coded - n/a	Standard	0.061	No
WI1009-M12M17TF17T01	Connector 4	M12 17-pin male A-coded - 180° Straight	Basic I/O, Com	17	1
M12 Shl Cable 1m Male17p0°-Female 17p0° twist pair		M12 17-pin female A-coded - n/a	Standard	0.061	No
WI1009-M12M17TF17T02	Connector 4	M12 17-pin male A-coded - 180° Straight	Basic I/O, Com	17	2
M12 Shl Cable 2m Male17p0°-Female 17p0° twist pair		M12 17-pin female A-coded - n/a	Standard	0.061	No
WI1009-M12M17TF17T04	Connector 4	M12 17-pin male A-coded - 180° Straight	Basic I/O, Com	17	4
M12 Shl Cable 4m Male17p0°-Female 17p0° twist pair		M12 17-pin female A-coded - n/a	Standard	0.061	No
WI1009-M12M17V05N	Connector 4	M12 17-pin male A-coded - 90° Angled	Basic I/O, Com	17	5
M12 Shl Cable 5m 17p Mal 90° MISxx,Ex41 twisted		Open Ended - n/a	Standard	0.061	No
WI1009-M12M17V05R	Connector 4	M12 17-pin male A-coded - 90° Angled	Basic I/O, Com	17	5
M12 Shl Cable 5m 17p Mal 90° MISxx,Ex41 twisted		- n/a	Robotic - 3D		No
WI1009-M12M17V10N	Connector 4	M12 17-pin male A-coded - 90° Angled	Basic I/O, Com	17	10
M12 Shl Cable 10m 17p Mal 90° MISxx,Ex41 twisted		Open Ended - n/a	Standard	0.061	No
WI1013-M12M17TF4T.4N	Connector 4	M12 17-pin male A-coded - 180° Straight		4	0.45
M12 17pM, 0.45m M8-4pF Shl for MAB MIS		M08 4-pin female - n/a	Standard	0.13	No
RS485-M12-1-5-17	Connector 4 RS485	-			
RS485 M12-17pin DSub, 5m v1.1		-			
WI1000-M12F8T05N	Connector Encoder	M12 8-pin female A-coded - 180° Straight	Power/Motor/com	8	5
M12 Shl Cable 5m 8 p Fem 0°, Basic IO		Open Ended - n/a	Standard	0.32	No
WI1000-M12F8T20N	Connector Encoder	M12 8-pin female A-coded - 180° Straight	Power/Motor/com	8	20
M12 Shl Cable 20m 8 p Fem 0°, Basic IO		Open Ended - n/a	Standard	0.32	No
WI1000-M12F8V05N	Connector Encoder	M12 8-pin female A-coded - 90° Angled	Power/Motor/com	8	5
M12 Shl Cable 5m 8 p Fem 90°, Basic IO		Open Ended - n/a	Standard	0.32	No
WI1000-M12F8V20N	Connector Encoder	M12 8-pin female A-coded - 90° Angled	Power/Motor/com	8	20
M12 Shl Cable 20m 8 p Fem 90°, Basic IO		Open Ended - n/a	Standard	0.32	No
WI1008-M12F8TC1	Connector Encoder	M12 8-pin female A-coded - 180° Straight	CANopen/DeviceNet n/a		Connector
M12 Con 8p Fem 0° Screw Shield		- n/a	n/a	n/a	No
WI1008-M12F8TS1	Connector Encoder	M12 8-pin female A-coded - 180° Straight	CANopen/DeviceNet n/a		Connector
M12 Con 8p Fem 0° Solder Shield		- n/a	n/a	n/a	No
WI1012-M12F8TF8T01T	Connector Encoder	M12 8-pin female A-coded - 180° Straight		8	1
M12 Shl Cable 1m 8pF0°-8pF0° SMC-Enc twisted/shie		M12 8-pin female A-coded - n/a		0.32	No
WI1012-M12F8TF8T02T	Connector Encoder	M12 8-pin female A-coded - 180° Straight		8	2
M12 Shl Cable 2m 8pF0°-8pF0° SMC-Enc twisted/shie		M12 8-pin female A-coded - n/a		0.32	No
WI1012-M12F8TF8T05T	Connector Encoder	M12 8-pin female A-coded - 180° Straight		8	5
M12 Shl Cable 5m 8pF0°-8pF0° SMC-Enc twisted/shie		M12 8-pin female A-coded - n/a		0.32	No
WI1012-M12F8TF8T20T	Connector Encoder	M12 8-pin female A-coded - 180° Straight		8	20
M12 Shl Cable 20m 8pF0°-8pF0° SMC-Enc twisted/shie		M12 8-pin female A-coded - n/a		0.32	No
WI1012-M12F8TM17T01T	Connector Encoder	M12 8-pin female A-coded - 180° Straight		8	1
M12 Shl Cable 1m 8pF 0° to 17pM 0° SMCxx twisted/s		M12 17-pin male A-coded - n/a		0.32	No
WI1012-M12F8TM17T05T	Connector Encoder	M12 8-pin female A-coded - 180° Straight		8	5
M12 Shl Cable 5m 8pF 0° to 17pM 0° SMCxx twisted/s		M12 17-pin male A-coded - n/a		0.32	No
WI1012-M12F8TM17T20T	Connector Encoder	M12 8-pin female A-coded - 180° Straight		8	20
M12 Shl Cable 20m 8pF 0° to 17pM 0° SMCxx twisted/		M12 17-pin male A-coded - n/a		0.32	No
WI1000-M12M5A05N	Connector Motor	M12 5-pin male A-coded - 90° Angled	Power/Motor/com	5	5
M12 cable 5m, 5 pin male 90°, COM2/ B4		Open Ended - n/a	Standard	0.32	No



SMC66B1-EPAABX1

StepmCon Box 6A 12-72VDC Profinet IP65

Cable information

Item number	Mount on	Cable con 1 +Con 1 angle	Cable application	Wires no totally	Cable length [m]
Item description		Cable con 2 +Con 2 angle	Cable flexibility	Wire [mm2]	Connector 1 LED
WI1000-M12M5T05N	Connector Motor	M12 5-pin male A-coded - 180° Straight	Power/Motor/com	5	5
M12 Shl Cable 5m 5 p Male 0°, COM		Open Ended - n/a	Standard	0.32	No
WI1000-M12M5T20N	Connector Motor	M12 5-pin male A-coded - 180° Straight	Power/Motor/com	5	20
M12 Shl Cable 20m 5 p Male 0°, COM		Open Ended - n/a	Standard	0.32	No
WI1000-M12M5TF5T.5N	Connector Motor	M12 5-pin male A-coded - 180° Straight	Power/Motor/com	5	0.5
M12 Shl Cable .5m 5p Male 0° to 5p Fem 0		M12 5-pin female A-coded - n/a	Standard	0.32	No
WI1000-M12M5TF5T01N	Connector Motor	M12 5-pin male A-coded - 180° Straight	Power/Motor/com	5	1
M12 Shl Cable 1m 5p Male 0° to 5p Fem 0°		M12 5-pin female A-coded - n/a	Standard	0.32	No
WI1000-M12M5TF5T02N	Connector Motor	M12 5-pin male A-coded - 180° Straight	Power/Motor/com	5	2
M12 Shl Cable 2m 5p Male 0° to 5p Fem 0°		M12 5-pin female A-coded - n/a	Standard	0.32	No
WI1000-M12M5TF5T02T	Connector Motor	M12 5-pin male A-coded - 180° Straight	Power/Motor/com	5	2
M12 Cable 2m 5pM 180° to 5pF 180° twisted, power c		M12 5-pin female A-coded - n/a	Standard	0.32	No
WI1000-M12M5TF5T03N	Connector Motor	M12 5-pin male A-coded - 180° Straight	Power/Motor/com	5	3
M12 Shl Cable 3m 5p Male 0° to 5p Fem 0°		M12 5-pin female A-coded - n/a	Standard	0.32	No
WI1000-M12M5V05N	Connector Motor	M12 5-pin male A-coded - 90° Angled	Power/Motor/com	5	5
M12 Shl Cable 5m 5 p Male 90°, COM		Open Ended - n/a	Standard	0.32	No
WI1000-M12M5V20N	Connector Motor	M12 5-pin male A-coded - 90° Angled	Power/Motor/com	5	20
M12 Shl Cable 20m 5 p Male 90°, COM		Open Ended - n/a	Standard	0.32	No
WI1005-M12M5STR6	Connector Motor	M12 5-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 5-pin male A Code Resistor RS485		n/a - n/a	n/a	n/a	No
WI1005-M12M5TF5T.2N	Connector Motor	M12 5-pin male A-coded - 180° Straight	Communication		0.2
M12 Cab 0.2m, 5p Mal - 5p Fem, RS485 .Std cable		M12 5-pin male A-coded - n/a	Standard	0.32	No
WI1005-M12M5TM5T01N	Connector Motor	M12 5-pin male A-coded - 180° Straight	Communication		1
M12 Cab 1m, 5p Mal - 5p Mal, RS485. Std cable		M12 5-pin male A-coded - n/a	Standard	0.32	No
WI1008-M12M5AC1	Connector Motor	M12 5-pin male A-coded - 90° Angled	CANopen/DeviceNet n/a		Connector
M12 Con 5p Male 90° Screw PG7 for cable		- n/a	n/a	n/a	No
WI1008-M12M5AG1	Connector Motor	M12 5-pin male A-coded - 90° Angled	CANopen/DeviceNet n/a		Connector
M12 Con 5p Male 90° Spring Ø4-8mm cable		- n/a	n/a	n/a	No
WI1008-M12M5SC1	Connector Motor	M12 5-pin male A-coded - 180° Straight	CANopen/DeviceNet n/a		Connector
M12 Con 5p Male 0° Screw PG7 cable		- n/a	n/a	n/a	No
WI1008-M12M5SS1	Connector Motor	M12 5-pin male A-coded - 180° Straight	CANopen/DeviceNet n/a		Connector
M12 Con 5p Male 0° Solder assembly		- n/a	n/a	n/a	No
WI1008-M12M5STR4	Connector Motor	M12 5-pin male A-coded - 180° Straight	CANopen/DeviceNet n/a		Connector
M12 Con 5-pin male A Code Resistor CAN		- n/a	n/a	n/a	No
WI1008-M12M5TC1	Connector Motor	M12 5-pin male A-coded - 180° Straight	CANopen/DeviceNet n/a		Connector
M12 Con 5p Male A-coded Screw Shield		- n/a	n/a	n/a	No
WI1008-M12M5TG1	Connector Motor	M12 5-pin male A-coded - 180° Straight	CANopen/DeviceNet n/a		Connector
M12 Con 5p Male 0° Spring Shield		- n/a	n/a	n/a	No
WI1008-M12M5VG1	Connector Motor	M12 5-pin male A-coded - 90° Angled	CANopen/DeviceNet n/a		Connector
M12 Con 5p Male 90° Spring Shield		- n/a	n/a	n/a	No
WI1025-M12M5AF5AF8A	Connector Motor	M12 5-pin male A-coded - 90° Angled		5	
M12 T-Con Male 5 p + Fem 5 p + 1 Fem 8 p		M12 5-pin male A-coded - n/a	Standard	0.32	No
WI1025-M12M5VM5VF5V	Connector Motor	M12 5-pin male A-coded - 90° Angled		5	
M12 Shl Y-Con 2xMale 5p + 1xFem 5p RS485		M12 5-pin male A-coded - n/a	Standard	0.32	No