



MAC00-FP4

Profibus, M12 conn., IP67



General information

Description	Profibus, M12 conn., IP67, Profibus, M12 IP67, 4 I/Os: DI, NL, PL, AIN/HM, DO, RS232, Dual Supply Please see Manual for I/O combinations Expansion Module for MAC motor®		
Manufacture	JVL	For motor type	MAC
Color	Black	Protection house	IP67
Software	MacTalk	Interface	RS232
Connectivity: Without module	Profibus		
Control voltage (CVI/O+) [VDC]	12-28	Main supply [V]	12-48
Expansion connector	Generation 1		
Integrated PLC	No	PLC no. of DI	0-3 See module
PLC no. of AIN	0-1 See module	PLC no. of DO	0-2 See module
Multifunction IOs		PLC no. of DIO	n/a
Datasheet - pdf	ld0094gb.pdf		
Country Of Origin	DK	Tariff no	85371098
Tariff no US			



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Mechanical information

Customer Sealing



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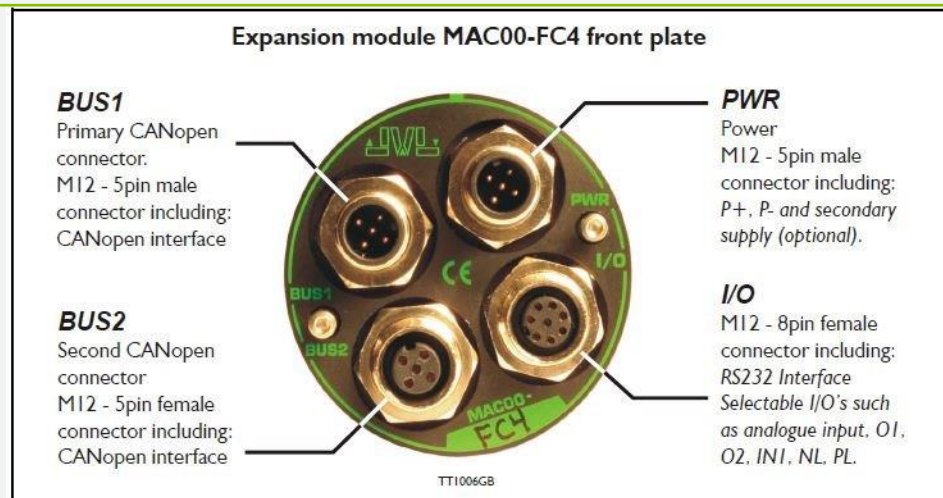
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Connector information

Expansion connector

Generation 1

Motor connectors



Connector 1 label	PWR	Connector 1	M12 5-pin male A-coded
Connector 2 label	IO	Connector 2	M12 8-pin female A-coded
Connector 3 label	BUS2	Connector 3	M12 5-pin female B-coded Profibus
Connector 4 label	BUS1	Connector 4	M12 5-pin male B-coded Profibus
Connector 2 RS232	Yes	Connector 2 RS485	No
Connector 3 RS232	No	Connector 3 RS485	No
Connector 4 RS232	No	Connector 4 RS485	No

Picture CN1

"PWR" - Power input. M12 - 5-pin male connector

Signal name	Description	Pin no.	JVL Cable W11000M12 F5T05N	Isolation group
P+	Main supply +12-48VDC. Connect with pin 2 *	1	Brown	1
P+	Main supply +12-48VDC. Connect with pin 1 *	2	White	1
P-	Main supply ground. Connect with pin 5 *	3	Blue	1
CV	Control voltage +12-48VDC.	4	Black	1
P-	Main supply ground. Connect with pin 3 *	5	Grey	1

* Note: P+ and P- are each available at 2 terminals. Make sure that both terminals are connected in order to split the supply current in 2 terminals and thereby avoid an overload of the connector.

Picture CN2

"IO" - I/Os and RS232 interface. M12 - 8-pin female connector.					
Signal name	Description	Function	Pin no.	JVL Cable W11000-M12 M8T05N	Isolation group
IOC	I/O terminal C.	DIP 5 = OFF : PL input DIP 5 = ON (default) O1 (output PNP 25mA)	1	White	3
Tx	RS232 interface - transmit output	Important !: DIP1 must be turned ON. If addressing is used it must be turned ON at all minimum one of the connected motors.	2	Brown	1
Rx	RS232 interface - receive input		3	Green	1
GND	RS232 Ground - also used with analogue input.		4	Yellow	1
IOA	I/O terminal A.	DIP 2 = ON (default) and DIP 3 = OFF (default): AIN (Analogue In or Zero search Input) DIP2 = OFF and DIP 3 = ON : O2 (output 2 I PNP 25mA)	5	Grey	3 (1 when used as AIN)
IOB	I/O terminal B.	DIP 4 = OFF (default): IN1 (input 1) DIP 4 = ON : O1 (PNP 25mA) (output 1)	6	Pink	3
IO-	I/O ground to be used with IN1, NL, PL, O1, O2		7	Blue	3
IOD	I/O terminal D.	DIP 6 = OFF: NL (negative limit input) DIP 6 = ON (default): O+ (outp. sup.)	8	Red	3



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Connector information

Picture CN3

"BUS2" - Profibus-DP Interface. M12 - 5-pin female connector

Signal name	Description	Pin no.	Cable: user supplied	Isolation group
5VDC	5V output. Can be used for ext. termination (Max 40mA)	1	-	2
A-	Terminal A (Siemens syntax) for the Profibus interface	2	-	2
DGND	Profibus-DP interface ground	3	-	2
B+	Terminal B (Siemens syntax) for the Profibus interface.	4	-	2
SHIELD	Cable shield. Internally connected to the motor housing.	5	-	2

Picture CN4

"BUS1" - Profibus-DP interface. M12 - 5-pin male connector

Signal name	Description	Pin no.	Cable: user supplied	Isolation group
-	Reserved for future purpose - do not connect	1	-	2
A-	Terminal A (Siemens syntax) for the Profibus-DP interface	2	-	2
DGND	Profibus-DP interface ground	3	-	2
B+	Terminal A (Siemens syntax) for the Profibus-DP interface	4	-	2
SHIELD	Cable shield. Internally conn. to the motor housing.	5	-	2

Module Cabel 1

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Module Cabel 2

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Module Cabel 3

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Module Cabel 4

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Electrical information

Control voltage (CVI/O+) [VDC]	12-28	Control Voltage (CVI) Min-Max [VDC]	
Max current CVI [A]			
Main supply [V]	12-48	Main supply Min-Max [V]	10-50
Rated Winding current [A]		P- isolated from Earth (Low Voltage ground (P-) isolated from housing)	
PLC no. of DI	0-3 See module	Dig. Input impedans	10kohm
PLC no. of DO	0-2 See module	PLC DO max current [mA/DO]	25mA - PNP
PLC no. of DIO	n/a		
PLC no. of AIN	0-1 See module	PLC AIN voltage [VDC]	-10 to +10
PLC AIN Min-Max [VDC]	-10 to +32	PLC AIN Max Tol. [%]	5.0
Multifunction IOs		PLC MF low level [VDC]	
PLC MF high level [VDC]		PLC MF Max level [VDC]	
MTBF 30% [Year]		MTBF 100% [Year]	



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Communication information

e-PLC Files

Ethernet, PLC demo files



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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
WI1000-M12M8T02N	Connector 2	M12 8-pin male A-coded - 180° Straight	Power/Motor/com	8	2



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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 Shl Cable 2m 8 p Male 0° COM1/Ext IO		Open Ended - n/a	Standard	0.32	No
WI1000-M12M8T05N	Connector 2	M12 8-pin male A-coded - 180° Straight	Power/Motor/com	8	5
M12 Shl Cable 5m 8 p Male 0° COM1/Ext IO		Open Ended - n/a	Standard	0.32	No
WI1000-M12M8T20N	Connector 2	M12 8-pin male A-coded - 180° Straight	Power/Motor/com	8	20
M12 Shl Cable 20m 8 p Male 0° COM1/ExtIO		Open Ended - n/a	Standard	0.32	No
WI1000-M12M8T20R	Connector 2	M12 8-pin male A-coded - 180° Straight	Power/Motor/com		20
M12 Shl Cable 20m 8 p Male 0° 2D cable chain		- n/a			No
WI1000-M12M8TF4LT186	Connector 2	M12 8-pin male A-coded - 180° Straight	Power/Motor/com	8	5
M12 shl cable5m, M12 M8, M8 F4 0° IO		M12 4-pin female A-coded - n/a		0.32	No
WI1000-M12M8TLT0184	Connector 2	M12 8-pin male A-coded - 180° Straight	Power/Motor/com	8	5
M12 shl cable5m, 8 pin male 0° IO SPEC		M12 4-pin female A-coded - n/a		0.32	No
WI1000-M12M8V05N	Connector 2	M12 8-pin male A-coded - 90° Angled	Power/Motor/com	8	5
M12 Shl Cable 5m 8 p Mal 90° COM1/ExtIO		Open Ended - n/a	Standard	0.2	No
WI1000-M12M8V20N	Connector 2	M12 8-pin male A-coded - 90° Angled	Power/Motor/com	8	20
M12 Shl Cable 20m 8 p Mal 90° COM1/ExtIO		Open Ended - n/a	Standard	0.2	No
WI1005-M12M8QM5V.3N	Connector 2	M12 8-pin male A-coded - 90° Angled	Communication		0.3
M12 Shl Cab 0.3m 8p Mal 5p Mal 90° RS485 twisted		M12 5-pin male A-coded - n/a	Standard	0.32	No
WI1005-M12M8S10N	Connector 2	M12 8-pin male A-coded - 180° Straight	Communication	8	10
M12 Shl Cable 10m, 8 p Male MAC00-B41 twisted		Open Ended - n/a	Standard	0.32	No
WI1005-M12M8STR5	Connector 2	M12 8-pin male A-coded - 180° Straight	Communication	n/a	Connector
M12 8-pin male A Code Resistor RS485		n/a - n/a	n/a	0.32	No
WI1005-M12M8TF8T01N	Connector 2	M12 8-pin male A-coded - 180° Straight	Communication	8	1
M12 Shl Cab 1m 8p Male 0° to 8p Female 0° 2x4pair		M12 8-pin female A-coded - n/a	Standard	0.32	No
WI1005-M12M8TF8T20N	Connector 2	M12 8-pin male A-coded - 180° Straight	Communication	8	20
M12 Shl Cab 20m 8p Male 8p Female 0° 2x4p twisted		M12 8-pin female A-coded - n/a		0.32	No
WI1005-M12M8TM5T.3N	Connector 2	M12 8-pin male A-coded - 180° Straight	Communication	5	0.3
M12 Shl Cab 0,3 m 8p Male 5p Male 0° RS485 twisted		M12 5-pin male A-coded - n/a	Standard	0.32	No
WI1005-M12M8TM5T.5N	Connector 2	M12 8-pin male A-coded - 180° Straight	Communication	5	0.5
M12 Shl Cab 0,5 m 8p Male 5p Male 0° RS485 twisted		M12 5-pin male A-coded - n/a	Standard	0.32	No
WI1005-M12M8TM5T05N	Connector 2	M12 8-pin male A-coded - 180° Straight	Communication	5	5
M12 Shl Cab 5m 8p Male 5p Male 0° RS485 twisted		M12 5-pin male A-coded - n/a	Standard	0.32	No
WI1005-M12M8VM5V.5N	Connector 2	M12 8-pin male A-coded - 90° Angled	Communication	5	0,5
M12 Shl Cab 0.5m 8pMale 5pMale 90° RS485 twisted		M12 5-pin male A-coded - n/a	Standard	0.32	No
WI1005-M12M8VM5V03N	Connector 2	M12 8-pin male A-coded - 90° Angled	Communication	5	3
M12 Shl Cab3m 8p Male 5p Male 90° RS485 twisted		M12 5-pin male A-coded - n/a	Standard	0.32	No
WI1005-M12M8VM5V10N	Connector 2	M12 8-pin male A-coded - 90° Angled	Communication	5	10
M12 Shl Cab10m 8p Male 5p Male 90° RS485 twisted		M12 5-pin male A-coded - n/a	Standard	0.32	No
WI1005-M12M8VM5V20N	Connector 2	M12 8-pin male A-coded - 90° Angled	Communication	5	20
M12 Shl Cab20m 8p Male 5p Male 90° RS485 twisted		M12 5-pin male A-coded - n/a	Standard	0.32	No
WI1008-M12M8SC1	Connector 2	M12 8-pin male A-coded - 180° Straight	CANopen/DeviceNet	n/a	Connector
M12 Con 8p Male 0° Screw Ø4-8mm cable		- n/a	n/a	n/a	No
WI1008-M12M8SS1	Connector 2	M12 8-pin male A-coded - 180° Straight	CANopen/DeviceNet	n/a	Connector
M12 Con 8p Male 0° Solder assembly		- n/a	n/a	n/a	No
WI1008-M12M8TC1	Connector 2	M12 8-pin male A-coded - 180° Straight	CANopen/DeviceNet	n/a	Connector
M12 Con 8p Male 0° Screw Shield		- n/a	n/a	n/a	No
WI1008-M12M8TS1	Connector 2	M12 8-pin male A-coded - 180° Straight	CANopen/DeviceNet	n/a	Connector
M12 Con 8p Male 0° Solder Shield		- n/a	n/a	n/a	No
WI1009-M12M8Q1.2N	Connector 2	M12 8-pin male A-coded - 90° Angled	Basic I/O, Com	8	1.2
M12 Shl Cable 1.2m 8p Male 90° 4P twisted		Open Ended - n/a	Standard	0.32	No
WI1009-M12M8V05N	Connector 2	M12 8-pin male A-coded - 90° Angled	Basic I/O, Com	8	5
M12 Shl Cable 5m 8 p Male 90° 4P twisted		Open Ended - n/a	Standard	0.32	No
WI1009-M12M8V20N	Connector 2	M12 8-pin male A-coded - 90° Angled	Basic I/O, Com	8	20
M12 Shl Cable 20m 8 p Male 90° 4P twisted		Open Ended - n/a	Standard	0.32	No
RS232-M12-1-10-8	Connector 2 RS232	-			
RS232 M12 8pin M 10m f/FC4,FD4,FP4,B4		-			



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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
RS232-M12-1-3-8-QS	Connector 2 RS232	-			
RS232 M12 8pin M 3m Quickstep/SMC75A1Mx		-			
WI1026-M12M5S02R	Connector 3	M12 5-pin male B-coded Profibus - 180° Straight	Profibus	2	2
M12 Shl Cab 2m 5p Mal 0° B-cod Profibus		Open Ended - n/a	Robotic - 3D	0.2	No
WI1026-M12M5S05R	Connector 3	M12 5-pin male B-coded Profibus - 180° Straight	Profibus	2	5
M12 Shl Cab 5m 5p Mal 0° B-cod Profibus		Open Ended - n/a	Robotic - 3D	0.2	No
WI1026-M12M5S10R	Connector 3	M12 5-pin male B-coded Profibus - 180° Straight	Profibus	2	10
M12 Shl Cab 10m 5p Mal 0° B-cod Profibus		Open Ended - n/a	Robotic - 3D	0.2	No
WI1026-M12M5S15R	Connector 3	M12 5-pin male B-coded Profibus - 180° Straight	Profibus	2	15
M12 Shl Cab 15m 5p Mal 0° B-cod Profibus		Open Ended - n/a	Robotic - 3D	0.2	No
WI1026-M12F5S02R	Connector 4	M12 5-pin female B-coded Profibus - 180° Straight	Profibus	2	2
M12 Shl Cab 2m 5p Fem 0° B-cod Profibus		Open Ended - n/a	Robotic - 3D	0.2	No
WI1026-M12F5S05R	Connector 4	M12 5-pin female B-coded Profibus - 180° Straight	Profibus	2	5
M12 Shl Cab 5m 5p Fem 0° B-cod Profibus		Open Ended - n/a	Robotic - 3D	0.2	No
WI1026-M12F5S10R	Connector 4	M12 5-pin female B-coded Profibus - 180° Straight	Profibus	2	10
M12 Shl Cab 10m 5p Fem 0° B-cod Profibus		Open Ended - n/a	Robotic - 3D	0.2	No
WI1026-M12F5S15R	Connector 4	M12 5-pin female B-coded Profibus - 180° Straight	Profibus	2	15
M12 Shl Cab 15m 5p Fem 0° B-cod Profibus		Open Ended - n/a	Robotic - 3D	0.2	No
RS232-USB-M12M5M8M17	RS232 converter M5M8M17	-			
USB to RS232 isolated adaptor, M12 Male		-			