### Product Data





JVL...integration in motion

# **M12 Connection Cables** for MAC motor Expansion Modules and the QuickStep motors



In order to ease installation of the MAC and QuickStep motors with M12 connectors, JVL has developed a series of readymade cables and adaptors etc.

In the table on the following center spread we have listed all items available and indicated which cables that should be used with which expansion module.

In the last columns cables for the QuickStep motors ar given. All the cables and other items for easy installation can normally be delivered from stock.

Special length's of cables can be made to order.

It is recommended to use the protection caps for expansion module sockets not in use.

All the M12 connectors fulfil IP67 requirements.

If desired you can make most

of your own flexible or robot cables by means of the 5- and 8-pin male and female connectors.

LD0067-06GB Date: 7-10-08

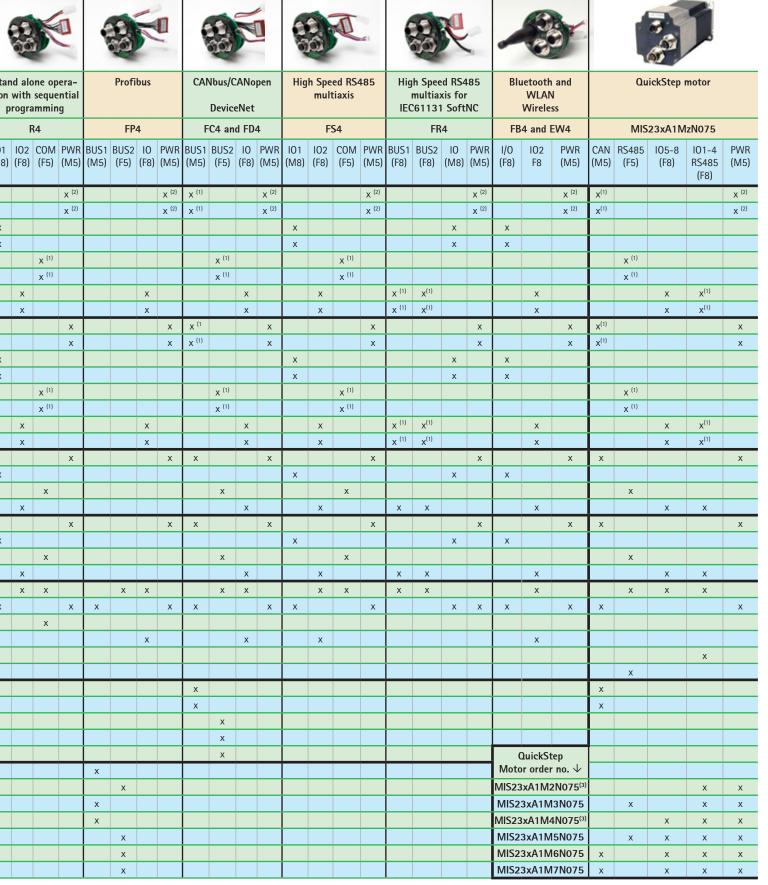
		exp	nector overview for MAC moto ansion modules MACOO-X4 and QuickStep motors.	r		connector housing		96	) i		
						connected to con		e/direct 5485, U			S ti
			Expansion module type no.			nec		В	4		Γ
		Cable order no.	Connectors			ទ	10	COM1	COM2	PWR	10
		cause order no.	Cable Description			Shield	(M8)		(F5)	(M5)	
		WI1000-M12F5V05N	M12, 5 pin female Cable 5m, Power			х				X <sup>(2)</sup>	Г
		WI1000-M12F5V20N	M12, 5 pin female Cable 20m, Power	4	0	Х				X (2)	Γ
		WI1000-M12F8V05N	M12, 8 pin female Cable 5m, Basic I/O	ote	s (P	X	х				Ĺ
	- //	WI1000-M12F8V20N	M12, 8 pin female Cable 20m, Basic I/O	٥	able	х	х				Ĺ
//	3//	WI1000-M12M5V05N	M12, 5 pin male Cable 5m, Communication	8	ပ္ပိ	х			x <sup>(1)</sup>		İ
		WI1000-M12M5V20N	M12, 5 pin male Cable 20m, Communication	Angled 90 ° (note 4)	lde	х			x <sup>(1)</sup>		T
-14/		WI1000-M12M8V05N	M12, 8 pin male Cable 5m, Extended I/O	And	Shie	x x x x x		X <sup>(1)</sup>			T
		WI1000-M12M8V20N	M12, 8 pin male Cable 20m, Extended I/O			х		X <sup>(1)</sup>			T
		WI1000-M12F5T05N	M12, 5 pin female Cable 5m, Power	İ		Х				Х	T
	11	WI1000-M12F5T20N	M12, 5 pin female Cable 20m, Power		Ç	$\vdash$				Х	
	-	WI1000-M12F8T05N	M12, 8 pin female Cable 5m, Basic I/O		Shielded Cables (PVC)	X	Х				
=		WI1000-M12F8T20N	M12, 8 pin female Cable 20m, Basic I/O	180	ples	X	Х				T
		WI1000-M12M5T05N	M12, 5 pin male Cable 5m, Communication	Straight 180	Cal	x			X <sup>(1)</sup>		
	H	WI1000-M12M5T20N	M12, 5 pin male Cable 20m, Communication	raic	ded	x			X (1)		
	-	WI1000-M12M8T05N	M12, 8 pin male Cable 5m, Extended I/O	S	hie	X		X <sup>(1)</sup>	^		H
		WI1000-M12M8T20N	M12, 8 pin male Cable 20m, Extended I/O		S	X		X (1)			
,		WI1000-M12M8120N	M12 5 pin female 0', solder terminal	_	-			Χ.,		V	-
	-		M12 8 pin female 0', solder terminal		tors		v			Х	H
		WI1008-M12F8531	M12 5 pin male 0', solder terminal		Connectors		Х		v		F
_		WI1008-M12M8SS1	M12 8 pin male 0', solder terminal		ပ်	H		V	Х		F
L			M12 female 5 pin springcon for Ø4–8 cable		-	V		Х		V	+
Γ	A second		M12 female 8 pin screw, for Ø4–8 cable		e	X	v			Х	F
	9	WI1008-M12F8TC1			ield	x x	Х		v		-
			M12 male 9 pin springcon for Ø4-8 cable		-S	X		20	Х		H
		WI1008-M12M8TC1	M12 male 8 pin, screw, for Ø4-8 cable			Х		X	.,		-
		WI1000-M12FCAP1	IP67 protection cap for M12 female		-SY	H		Х	Х		H
		WI1000-M12MCAP1	IP67 protection cap for M12 male		Various		Х			Х	1
		RS232-M12-1-5-5	RS232 M12 5 pin male for MAC00-R4.		"				Х		H
Γ	1	RS232-M12-1-5-8	RS232 M12 8 pin male 5m for FC4,FD4,FP4,B4					X			H
L		RS485-M12-1-5-8	RS485 M12 8 pin male 5m		H			Х			
_		RS485-M12-1-5-5	RS485 M12 5 pin male 5m		-				Х		-
		WI1006-M12F5S05R	M12 cable, 5m, 5 pin female CANopen/DeviceNet		.Net	Х					F
	1	WI1006-M12F5S15R	M12 cable, 15m, 5 pin female CANopen/DeviceNet		evice	Х					-
		- WI1006-M12M5S05R	M12 cable, 5m, 5 pin male CANopen/DeviceNet		Jen/D	X X X					F
	4	WI1006-M12M5S15R	M12 cable, 15m, 5 pin male CANopen/DeviceNet		ANo	Х					-
	59	WI1008-M12M5STR4	M12 5 pin male terminating resistor CANopen/DeviceNe	t	10	┝					F
		WI1028-M12F5VG1	M12 connector profi 5 pin female, screw, B-coded			Х					
	Carles .	WI1028-M12M5VG1	M12 connector profi 5 pin male, screw, B-coded			х					L
		WI1026-M12F5S05R	M12 cable 5m, 5 p. female B coded profibus		Snc	х					
F		WI1026-M12F5S15R	M12 cable 15m. 5 p. female B coded profibus		Profibus	х					
		WI1026-M12M5S05R	M12 cable 5m. 5 pin male B coded profibus		Ţ	х					
	0	WI1026-M12M5S15R	M12 cable 15m. 5 pin male B coded profibus			х					
		WI1028-M12M4STR3	M12 4 pin male B code terminating Resistor Profi								
9		M5 = 5-pole male conno Note 1: Standard cable	ector, F5 = 5-pole female connector. M8 = 8-pole male connector of the control of	in lo	w n	oise	envir	onment	s for po	oint-to	

Note 3: Only for orders > 50 pcs.

Note 4: Can also be delivered without shield connected to connector housing. Order A-type. eg. WI1000-M12F8A20N

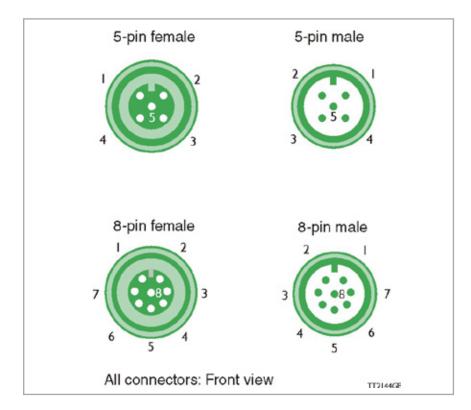
See also user manual for each module type for detailed cable information.

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Il standard cables use foil shield and are not twisted pair. It is not recommended for bending applications int or small networks. We strongly recommend twisted pair and double shielded cable. Shield should be connected to connector housing.

#### M12 connectors



### Color code for standard cables

#### 5-pole connector

Pin no.	Color
1	Brown
2	White
3	Blue
4	Black
5	Grey

#### 8-pole connector

Pin no.	Color
1	White
2	Brown
3	Green
4	Yellow
5	Grey
6	Pink
7	Blue
8	Red

### Color code for DeviceNet cables

Pin no.	Description	Color
1	Drain	Colorless
2	V+	Red
3	V-/CAN_GND	Black
4	CAN_H	White
5	CAN_L	Blue

## Color code for CANopen cables

Pin no.	Description	Color
3	CAN_GND	Black
4	CAN_H	White
5	CAN_L	Blue

#### Color code for ProfiBus cables

Pin no.	Description	Color
1		
2	Α	Green
3		
4	В	Red
5	Shield	Shield

#### Recommended cable for making your own cables:

4-lead RS485 cable with double shield. Order no.: WH0039-N2x2x0.3+2xSC	
2-lead CANopen cable. Order no.: WH0038-N2x0.75-CAN	
2-lead Profibus cable Order no.: WH0040-2Nx0.34-PROFI	



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