

## ShopCable/ShopModule Specifications

### Table of Contents

ShopCable/ShopModule Specifications .....	1
1 FANUC Style Cable for most CNC's with DB25F Ports .....	1
2 FANUC Style Cable for use with Machine Monitoring (XON/XOFF only) for most CNC's with DB25F Ports.....	2
3 Okuma Style Cable for CNC's with DB25M Ports .....	2
4 Standard PC Style Cable for CNCs with standard DB9M PC type ports.....	3
5 9 pin PC to DB9M Style Cable for CNC's with DB9F type ports .....	3
6 YASNAC 2000 (w/o CRT) Cable.....	4
7 ShopBTR Cable .....	4
8 MOXA RJ45_ FANUC Style Cable .....	5
9 MOXA RJ45_ Standard PC Type Port Cable (Hurco and Omniturn have such a port) .....	5

### 1 FANUC Style Cable

for most CNC's with DB25F Ports

(FANUC, YASNAC, Haas, Mazak, Mitsubishi, Siemens, Cincinatti 850 and some 950's, Bostomatic, NUM, Seikos, newer Okuma ... )

RJ-45 TO DB9F ShopModule SM-PC (L-COM & PI MFG colors)	Signals per EIA/TIA 562		(RJ45 – RJ45) ShopCable EIA/TIA 586B		RJ-45 to DB25M ShopModule SM-FAN-5 WIRE (L-COM & PI MFG colors)
6 BLU	DSR	1	WHT/ORG	1	X BLU
1 ORG	DCD	2	ORG	2	X ORG
4 BLK	DTR	3	WHT/GRN	3	X BLK
5 RED	GND	4	BLU	4	7 RED
2 GRN	RxD	5	WHT/BLU	5	2 GRN
3 YEL	TxD	6	GRN	6	3 YEL
8 BRN	CTS	7	WHT/BRN	7	4 BRN
7 WHT	RTS	8	BRN	8	5 WHT
					Jumper 6 – 8 – 20

## 2 FANUC Style Cable for use with Machine Monitoring

(XON/XOFF only)

for most CNC's with DB25F Ports

(FANUC, YASNAC, Haas, Mazak, Mitsubishi, Siemens, Cincinatti 850 and some 950's, Bostomatic, NUM, Seikos, newer Okuma ... .)

RJ-45 TO DB9F ShopModule SM-PC (L-COM & PI MFG colors)	Signals per EIA/TIA 562	(RJ45 – RJ45) ShopCable EIA/TIA 586B		RJ-45 to DB25M ShopModule SM-FAN-3 WIRE (L-COM & PI MFG colors)	
6 BLU	DSR	1	WHT/ORG	1	X BLU
1 ORG	DCD	2	ORG	2	X ORG
4 BLK	DTR	3	WHT/GRN	3	X BLK
5 RED	GND	4	BLU	4	7 RED
2 GRN	RxD	5	WHT/BLU	5	2 GRN
3 YEL	TxD	6	GRN	6	3 YEL
8 BRN	CTS	7	WHT/BRN	7	X BRN
7 WHT	RTS	8	BRN	8	X WHT
					Jumper 6 – 8 – 20
					Jumper 4 - 5

## 3 Okuma Style Cable

for CNC's with DB25M Ports

(Older Okuma's and FADAL's)

RJ-45 TO DB9F ShopModule SM-PC (L-COM & PI MFG colors)	Signals per EIA/TIA 562	(RJ45 – RJ45) ShopCable EIA/TIA 586B		RJ-45 to DB25F ShopModule SM-Okuma (L-COM & PI MFG colors)	
6 BLU	DSR	1	WHT/ORG	1	X BLU
1 ORG	DCD	2	ORG	2	X ORG
4 BLK	DTR	3	WHT/GRN	3	X BLK
5 RED	GND	4	BLU	4	7 RED
2 GRN	RxD	5	WHT/BLU	5	2 GRN
3 YEL	TxD	6	GRN	6	3 YEL
8 BRN	CTS	7	WHT/BRN	7	4 BRN
7 WHT	RTS	8	BRN	8	5 WHT
					Jumper 6 – 8 – 20

#### 4 Standard PC Style Cable

for CNCs with standard DB9M PC type ports

(Hurco, Omniturn and Mazak with USB – RS-232 converter)

RJ-45 TO DB9F ShopModule SM-PC (L-COM & PI MFG colors)	Signals per EIA/TIA 562		(RJ45 – RJ45) ShopCable EIA/TIA 586B		RJ-45 to DB9F ShopModule SM-PCR (L-COM & PI MFG colors)
6 BLU	DSR	1	WHT/ORG	1	X BLU
1 ORG	DCD	2	ORG	2	X ORG
4 BLK	DTR	3	WHT/GRN	3	X BLK
5 RED	GND	4	BLU	4	5 RED
2 GRN	RxD	5	WHT/BLU	5	3 GRN
3 YEL	TxD	6	GRN	6	2 YEL
8 BRN	CTS	7	WHT/BRN	7	7 BRN
7 WHT	RTS	8	BRN	8	8 WHT
					Jumper 1 – 4 – 6

#### 5 9 pin PC to DB9M Style Cable

for CNC's with DB9F type ports

(Cincinnati 2100)

RJ-45 TO DB9F ShopModule SM-PC (L-COM & PI MFG colors)	Signals per EIA/TIA 562		(RJ45 – RJ45) ShopCable EIA/TIA 586B		RJ-45 to DB9M ShopModule SM-9MR (L-COM & PI MFG colors)
6 BLU	DSR	1	WHT/ORG	1	X BLU
1 ORG	DCD	2	ORG	2	X ORG
4 BLK	DTR	3	WHT/GRN	3	X BLK
5 RED	GND	4	BLU	4	5 RED
2 GRN	RxD	5	WHT/BLU	5	3 GRN
3 YEL	TxD	6	GRN	6	2 YEL
8 BRN	CTS	7	WHT/BRN	7	7 BRN
7 WHT	RTS	8	BRN	8	8 WHT
					Jumper 1 – 4 – 6

## 6 YASNAC 2000 (w/o CRT) Cable

RJ-45 TO DB9F ShopModule SM-PC (L-COM & PI MFG colors)	Signals per EIA/TIA 562		(RJ45 – RJ45) ShopCable EIA/TIA 586B		RJ-45 to DB25M ShopModule SM-YAS2000 (L-COM & PI MFG colors)
6 BLU	DSR	1	WHT/ORG	1	X BLU
1 ORG	DCD	2	ORG	2	X ORG
4 BLK	DTR	3	WHT/GRN	3	X BLK
5 RED	GND	4	BLU	4	19 RED
2 GRN	RxD	5	WHT/BLU	5	15 GRN
3 YEL	TxD	6	GRN	6	16 YEL
8 BRN	CTS	7	WHT/BRN	7	17 BRN
7 WHT	RTS	8	BRN	8	18 WHT

## 7 ShopBTR Cable

RJ-45 TO DB9F ShopModule SM-PC (L-COM & PI MFG colors)	Signals per EIA/TIA 562		(RJ45 – RJ45) ShopCable EIA/TIA 586B		RJ-45 to DB25M ShopModule SM-BTR (L-COM & PI MFG colors)
6 BLU	DSR	1	WHT/ORG	1	X BLU
1 ORG	DCD	2	ORG	2	X ORG
4 BLK	DTR	3	WHT/GRN	3	X BLK
5 RED	GND	4	BLU	4	16 RED
2 GRN	RxD	5	WHT/BLU	5	17 GRN
3 YEL	TxD	6	GRN	6	15 YEL
8 BRN	CTS	7	WHT/BRN	7	14 BRN
7 WHT	RTS	8	BRN	8	X WHT

## 8 MOXA RJ45\_ FANUC Style Cable

(Use with Moxa versions of W2150A and W2250A)

Moxa RJ45 Signals	(RJ45 – RJ45) ShopCable EIA/TIA 586B		Moxa RJ-45 to DB25M ShopModule SM-MoxaFANUC (L-COM & PI MFG colors)
DSR	1	WHT/ORG	1 X BLU
RTS	2	ORG	2 5 ORG
GND	3	WHT/GRN	3 7 BLK
TxD	4	BLU	4 3 RED
RxD	5	WHT/BLU	5 2 GRN
DCD	6	GRN	6 X YEL
CTS	7	WHT/BRN	7 4 BRN
DTR	8	BRN	8 X WHT
			Jumper 6 – 8 – 20

## 9 MOXA RJ45\_ Standard PC Type Port Cable

(Hurco and Omniturn have such a port)

(Use with Moxa versions of W2150A and W2250A)

Moxa RJ45 Signals	(RJ45 – RJ45) ShopCable EIA/TIA 586B		RJ-45 to DB9F ShopModule SM-STDPC (L-COM & PI MFG colors)
DSR	1	WHT/ORG	1 X BLU
RTS	2	ORG	2 8 ORG
GND	3	WHT/GRN	3 5 BLK
TxD	4	BLU	4 2 RED
RxD	5	WHT/BLU	5 3 GRN
DCD	6	GRN	6 X YEL
CTS	7	WHT/BRN	7 7 BRN
DTR	8	BRN	8 X WHT
			Jumper 1 – 4 – 6