



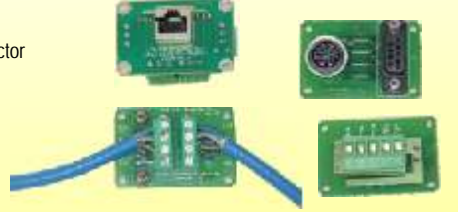
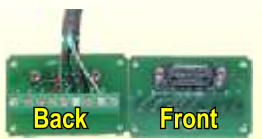
**Bulkhd:** Standard bulkhead connectors

**B-H/cable:** Standard bulkhead connector with cable.



**Extn:** Male-Female pin-pin extension cables.

**Term:** Printed circuit board pin-pin to terminal block OR Network Tap



Network Taps are designed for specific networks. Examples above: Modbus+, Data Highway+, DeviceNet, and more.

# Need Other Connector Codes?...CALL!

## GENERIC CONNECTOR CODES

### Universal Serial Bus

<b>P11</b>	USB Type A-A Cable	Extn	USB-AF	USB-AM
<b>P22</b>	USB Type A-A F/F	Bulkhd	USB-AF	USB-AF
<b>Q50</b>	USB Type A/B F/F	Bulkhd	USB-AF	USB-BF
<b>Q51</b>	USB Type B/A F/F	Bulkhd	USB-BF	USB-AF
<b>P27</b>	USB Type B/B F/F	Bulkhd	USB-BF	USB-BF
<b>P31</b>	USB Type B/B M/M	Bulkhd	USB-BM	USB-BM

### Ethernet & Network Interfaces

<b>R2</b>	Category 5e Ethernet	Bulkhd	RJ45F	RJ45F
<b>R33</b>	Category 5e Shielded	Bulkhd	RJ45F	RJ45F
<b>R62</b>	Category 6 Ethernet	Bulkhd	RJ45F	RJ45F

### BNC Connectors

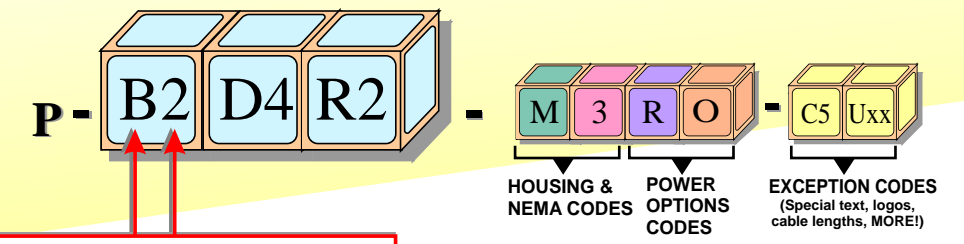
<b>Q79</b>	75 Ohm BNC F/F-Auto-Terminating	Bulkhd	F	F
<b>Q93</b>	75 Ohm BNC F/F (RJ58)	Bulkhd	F	F
<b>Q42</b>	50 Ohm BNC F/F (RJ58)	Bulkhd	F	F

### Generic Bulkhead Interfaces

<b>Q3</b>	DB-9 F/F	Bulkhd	F	F
<b>Q7</b>	DB-9 F/M	Bulkhd	F	M
<b>Q9</b>	DB-9 M/F	Bulkhd	M	F
<b>Q15</b>	DB-9 M/M	Bulkhd	M	M
<b>Q4</b>	DB-25 F/F	Bulkhd	F	F
<b>Q8</b>	DB-25 F/M	Bulkhd	F	M
<b>Q10</b>	DB-25 M/F	Bulkhd	M	F
<b>Q16</b>	DB-25 M/M	Bulkhd	M	M
<b>Q35</b>	DB-15 F/F	Bulkhd	F	F
<b>Q36</b>	DB-15 M/M	Bulkhd	M	M
<b>Q37</b>	DB-15 F/M	Bulkhd	F	M
<b>Q38</b>	DB-15 M/F	Bulkhd	M	F
<b>Q11</b>	DB-15HD F/M	Bulkhd	F	M
<b>Q12</b>	DB-15HD M/F	Bulkhd	M	F
<b>Q18</b>	DB-15HD F/F	Bulkhd	F	F
<b>Q19</b>	DB-15HD M/M	Bulkhd	M	M
<b>Q22</b>	DB-15HDVGA F/F	Bulkhd	F	F
<b>Q23</b>	DB-15HDVGA M/F	Bulkhd	M	F
<b>Q24</b>	DB-15HDVGA F/M	Bulkhd	F	M
<b>Q25</b>	DB-15HDVGA M/M	Bulkhd	M	M
<b>Q6</b>	RJ-11/12 F/F	Bulkhd	F	F
<b>Q17</b>	RJ-45 F/F	Bulkhd	F	F
<b>Q26</b>	4 MDIN F/F	Bulkhd	F	F
<b>Q28</b>	6MDIN F/F	Bulkhd	F	F
<b>Q29</b>	8MDIN F/F	Bulkhd	F	F
<b>Q26</b>	S-Video F/F	Bulkhd	F	F
<b>P24</b>	S-Video F/M	Bulkhd	F	M
<b>P25</b>	S-Video M/F	Bulkhd	M	F
<b>P26</b>	S-Video M/M	Bulkhd	M	M

### Connector to Terminal Block PCB

<b>R1</b>	DB9F (PCB Pins 1-9 to TB)	Term	DB9F	TB
<b>R12</b>	DB9M (PCB Pins 1-9 to TB)	Term	DB9M	TB
<b>R15</b>	RJ-45 (PCB Pins 1-8 to TB)	Term	RJ45F	TB



Alpha/Numeric Codes ordered Alphabetically and used in name of data sheet (i.e. D4.PDF)

## PLC CONNECTOR CODES

### Allen-Bradley (Rockwell Automation)

<b>A5</b>	PanelView (Serial)	Extn	DB9M	DB9F
<b>A8</b>	ControlLogix	Extn	DB9M	DB9F
<b>A10</b>	SCANport	Extn	8MDINF	8MDINM-lock
<b>A11</b>	PLC-5 Channel 0 (DB-25)	Extn	DB25F	DB25M
<b>A12</b>	SLC-500 Channel 0	Extn	DB9M	DB9F
<b>A13</b>	AIC+ Port 2	Extn	8 MDIN-F	8 MDIN-M
<b>A14</b>	MicroLogix (Series C)	Extn	8 MDIN-F	8 MDIN-M
<b>A16</b>	CompactLogix	Extn	DB9M	DB9F
<b>A17</b>	A-B FlexLogix	Extn	DB9M	DB9F
<b>A18</b>	MicroLogix 1500-LRP (DB-9)	Extn	DB9M	DB9F
<b>A19</b>	PowerFlex	Extn	8MDINF	8MDINM-lock
<b>A20</b>	PowerFlex 40,400	B/H-cable	RJ45F	RJ45M
<b>B1</b>	SLC 500 DH-485 (20' Cable)	Term	RJ45F	RJ45M
<b>B14</b>	A-B SLC 500 DH-485	Bulkhd	RJ45F	RJ45F

### Data Highway

<b>B2</b>	DH+ (DB9F PCB)	Term	DB9F	Terminal Block
<b>B3</b>	DH+ (8MDIN PCB)	Term	8MDINF	Terminal Block
<b>B6</b>	DH+ / Remote I/O	Term	3RTBM	Terminal Block
<b>B9</b>	DH+ Combo(DB9/8MDIN)	Term	8 MDIN/DB9F	Terminal Block

### ControlNet

<b>B4</b>	ControlNet RJ-45 (20' Cable)	Term	RJ45F	RJ45M
<b>B7</b>	ControlNet (75 Ohm BNC tap)	Term	BNCF	BNCF
<b>B10</b>	A-B ControlNet (20' cable)	B/H-Cable	RJ45F	RJ45M

## PLC NETWORK TAPS

### Network Taps

<b>B2</b>	A-B DH+ (DB9F PCB)	Term	DB9F	Terminal Block
<b>B3</b>	A-B DH+ (8MDIN PCB)	Term	8MDINF	Terminal Block
<b>B6</b>	A-B DH+ / Remote I/O	Term	3RTBM	Terminal Block
<b>B9</b>	A-B DH+ Combo (DB9/8MDIN)	Term	8 MDIN/DB9F	Terminal Block
<b>D3</b>	Profi-Bus (12MB max)	Term	DB9F	Terminal Block
<b>D4</b>	DeviceNet (8A Max)	Term	5RTBM	Terminal Block
<b>M4</b>	Modicon ModBus Plus Tap	Term	RJ-45	Terminal Block
<b>M9</b>	Schneider Automation -FIPWay	Term	DB9F	Terminal Block

**CALL 800-280-9517 for**

- Connector Codes (not shown)
- Configuration Assistance

Connector Codes	Description	Type	Gender Outside	Gender Inside
<b>XX</b>	Null Connector code			

## Computer Interfaces

### Serial, Parallel

<b>P1</b>	DB9 Serial	Extn	DB9M	DB9F
<b>P9</b>	DB25 Serial	Extn	DB25M	DB25F
<b>P2</b>	DB25 Parallel	Extn	DB25F	DB25M

### Keyboard, Mouse, & Monitor

<b>P3</b>	Keyboard (PS/2)	Extn	6MDINF	6MDINM
<b>P28</b>	Keyboard (USB)	Extn	USBAF	USBAM
<b>P5</b>	Mouse (PS/2)	Extn	6MDINF	6MDINM
<b>P29</b>	USB Mouse	Extn	USBAF	USBAM
<b>P6</b>	VGA Monitor	Extn	HDDB15F	HDDB15M
<b>Q102</b>	DVI F/F (DVI-I, D, A)	Bulkhd	F	F
<b>P7</b>	Modem	Bulkhd	RJ12F	RJ12F

### Other Parallel Pin-to-Pin Extension Cables

<b>R3</b>	DB9 F/M	Extn	DB9F	DB9M
<b>P1</b>	DB9 M/F	Extn	DB9M	DB9F
<b>P2</b>	DB25 F/M	Extn	DB25F	DB25M
<b>R9</b>	DB25 M/F	Extn	DB25M	DB25F
<b>R6</b>	DB37 M/F	Extn	DB37M	DB37F
<b>R7</b>	DB37 F/M	Extn	DB37F	DB37M
<b>R10</b>	DB15 M/F	Extn	DB15M	DB15F
<b>R11</b>	DB15 F/M	Extn	DB15F	DB15M
<b>R44</b>	DB15HDM M/F (Not for VGA)	Extn	M	F
<b>R45</b>	DB15HDM F/M (Not for VGA)	Extn	F	M
<b>R8</b>	8 Pin MiniDIN	Extn	8MDINF	8MDINM
<b>R28</b>	8 Pin MiniDin Locking	Extn	8MDINF	8MDINM

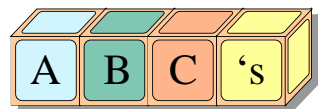
### Data Switch Interfaces

<b>R38</b>	DB9F 2:1	Custom	F	F
<b>R39</b>	DB9F 4:1	Custom	F	F
<b>R36</b>	8MDin 2:1	Custom	F	F
<b>R37</b>	8MDin 4:1	Custom	F	F
<b>R47</b>	DB15 2:1	Custom	F	F
<b>R48</b>	DB15 4:1	Custom	F	F
<b>R101</b>	50 OHM BNC 2:1	Custom	F	F
<b>R102</b>	VGA 2:1	Custom	F	F
<b>R103</b>	RJ11/12 2:1	Custom	F	F
<b>R104</b>	RJ11/12 4:1	Custom	F	F

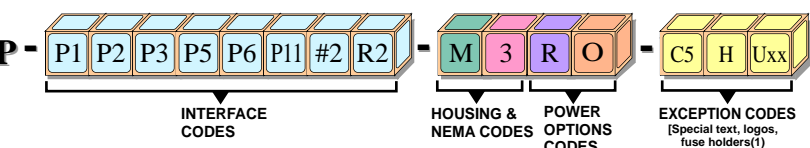
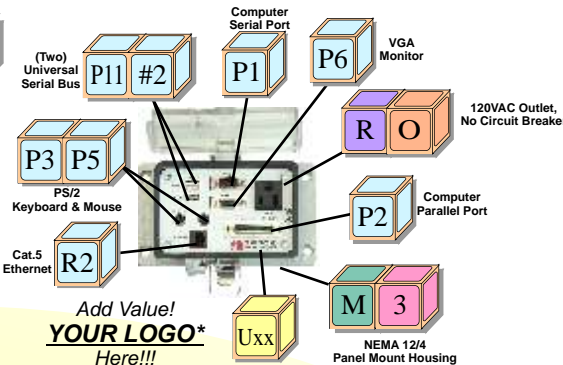


# GracePort® Interface Products Part Number Guide

## The Of Ordering



Of Ordering



NEMA RATING CODES		NOTES
1	NEMA 1 (Panel mount no housing)	ADD "G" TO THE END OF THE PART NUMBER FOR GASKETING @
2	NEMA 4X	Type 4X @ (1)
3	NEMA 12/4 & IP-65	Type 4 @
5	NEMA 4X TYPE 304 STAINLESS STEEL	Type 4X @
6	NEMA 4X TYPE 316 STAINLESS STEEL	Type 4X @
7	NEMA 7&9 EXPLOSION PROOF	NO POWER OPTIONS @

### ThruView™ Housings



PANEL MOUNT HOUSING CODES	HOUSING SIZE	SURFACE MOUNT HOUSING CODES
B	6	A
F	16	E
H	24	G
K	32	N/A
M	48	L
M5 Type 304 Stainless	48	L5 Type 304 Stainless
M6 Type 316 Stainless	48	L6
N/A		M7 Hazardous Location

### NEW The Inside- Outlet®



Standard on all GFCI GracePorts®

POWER OPTION CODES	DESCRIPTION	VAC	AMPS
R	US, Canada, Mexico (also used in Japan & Taiwan)	120	15
RD	Duplex Outlet	120	20
RF	GFCI Inside-Outlet	120	20
RG	Isolated Ground (Duplex)	120	15
RM	IEC 320 Male Power Entry Module	250	10
RP	IEC 320 Female Power Entry Module	250	10

FOREIGN OUTLETS			
RA	Australia, New Zealand, & Peoples Republic of China	CE	250 10
RB	United Kingdom, Hong Kong, Ireland, Singapore, & Malaysia	CE	250 13
RE	Continental Europe "Schuko" (Germany, Finland, Netherlands, Norway, Sweden, Portugal, Spain, Greece, Soviet Republic, & Eastern Bloc)	CE	250 16
RH	France & Belgian	CE	250 16
RI	Italy	CE	250 10
RU	India	CE	250 15

Note: CALL for other power options not shown (other outlets, DC jacks, & customs)  
CE: EN61010/EN60950 (Foreign Power Outlets)

CIRCUIT BREAKER(1) CODES	
0	No Breaker
3	3 Amp 250V
5	5 Amp 250V
Call for other sizes	

(1) For higher interrupting short-circuit rating, Class CC fuse holders are available. Use code "H" in the exception codes field. Fuse not included. Call for more information.



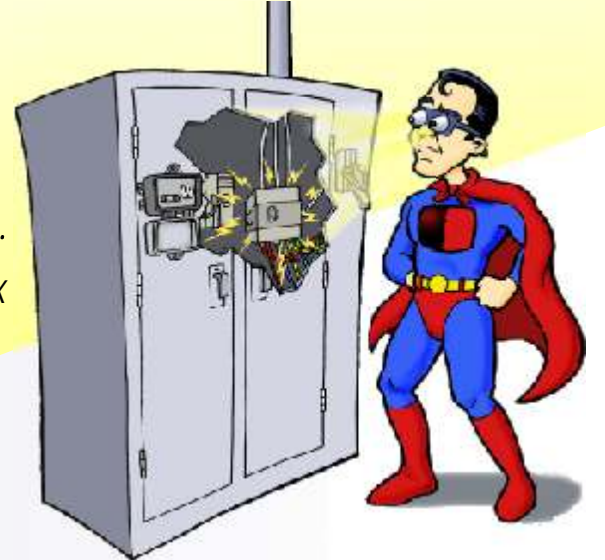
GracePort® Part Guide

800-280-9517

www.grace-eng.com

## GracePort® Thru-Door Interfaces

- EVERY** Combination - 1000's & 1000's!!
- EVERY** Connector - USB, Serial, PS2, EtherNet, DeviceNet, DH/+...
- EVERY** Enclosure Type - Nema 12/4, 4X, 7/9, & Stainless Steel 4X
- VERY** Quick Delivery! - 2-3 Days Typical
- UL TYPE 4 & 4X** (1) Ratings - CSA & CE (Foreign Power Outlets)



### PLC CONNECTOR CODES (cont)

Connector Codes	Description	Type	Gender Outside	Gender Inside
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Other PLC's				
<b>G1</b>	GE Fanuc Genius	Extn	DB9M	DB9F
<b>G2</b>	GE Fanuc (340 SNP, 9/30)	Extn	DB15F	DB15M
<b>H5</b>	Siemens Simatic 545-(1103,1104,1105,1106), 555-(1103,1104,1105,1106), 575-2104,2105,2106)	Extn	DB9F	DB9M
<b>H6</b>	Siemens Micro-Master	Extn	DB15F	DB15M
<b>M5</b>	Telemecanique UniTelway 8MDIN locking cable	Extn	8MDINF	8MDINM
<b>M9</b>	Schneider Automation -FIPWay	Term	DB9F	
<b>M10</b>	Mitsubishi FX Series PLC	Extn	8MDIN-F	8MDIN-M
<b>M11</b>	Mitsubishi A Series PLC	Extn	DB25F	DB25M
<b>M13</b>	Mitsubishi Q-Series PLC	Extn	6MDINF	6MDINM
<b>M14</b>	Omron Serial (DB9)	Extn	DB9M	DB9F
<b>M15</b>	Omron CS/CJ/CQ Peripheral Port (Use Omron Programming Cable)	Bulkhd	DB9F	DB9M

Modicon				
<b>M4</b>	ModBus Plus Industrial Tap	Term	RJ-45	Terminal Block
<b>M6</b>	ModBus Plus	Extn	DB9F	BLUNT
<b>M7</b>	Micro, E284-258/265/275/285	P/O	DB9F	RJ-45
<b>M8</b>	ModBus (Serial -Extension Cable Version)	Extn	DB9F	DB9M
<b>M16</b>	Momentum (Peripheral Port)	Extn	RJ-45F/F	RJ-45M
<b>M17</b>	Momentum	Extn	DB9F	RJ-45M

PLC Direct				
<b>M20</b>	(DL340/CPU Ports)	B/H Cable	RJ-11F/F	M
<b>M21</b>	(DL05,06,105,205,D3-350,D4-450 CPU Ports)	B/H Cable	RJ-12F/F	M
<b>M22</b>	(DL06, D2-250 Bottom Port)	Extn	DB15HD-F	M
<b>M23</b>	(DL405 Port CPU, DL405 SLICE I/O)	Extn	DB15-F	M
<b>M24</b>	(DL405 CPU/Bottom/DCM, DL305 w/DCU RS232)	Extn	DB25-F	M

Crossover Switch (See Data Sheets)				
<b>R49</b>	Crossover -Generic DB9F	Custom	Qty (2) DB9	
<b>R53</b>	MicroLogix 1000, 1200, 150LSP to PanelView 300 Micro	Custom	Qty (2) DB9	
<b>R54</b>	MicroLogix 1500 LRP, SLC,PLC5, Control Logix, Compact Logix, Flex Logix to PanelView 300 Micro	Custom	Qty (2) DB9	
<b>R55</b>	MicroLogix 1500 LRP, SLC,PLC5, Control Logix, Compact Logix, Flex Logix to PanelView(+) 300-1500	Custom	Qty (2) DB9	



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