

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

**Bulkhd:** Standard bulkhead connectors

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

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

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**

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

**Ethernet & Network Interfaces**

R2	Category 5e Ethernet	Bulkhd	RJ45F	RJ45F
R33	Category 5e Shielded	Bulkhd	RJ45F	RJ45F
R62	Category 6 Ethernet	Bulkhd	RJ45F	RJ45F

**BNC Connectors**

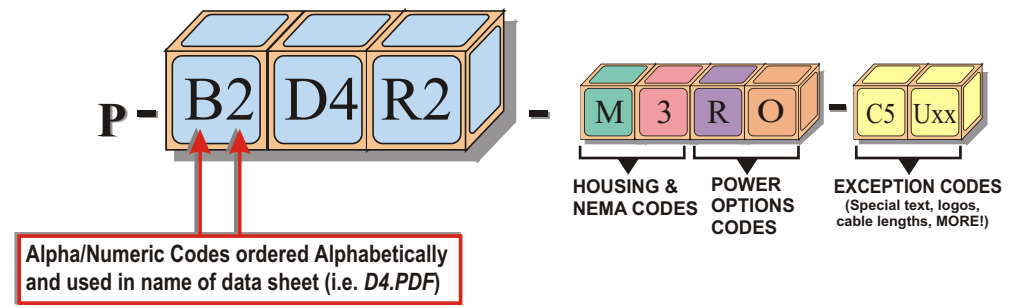
Q79	75 Ohm BNC F/F-Auto-Terminating	Bulkhd	F	F
Q93	75 Ohm BNC F/F (RJ58)	Bulkhd	F	F
Q42	50 Ohm BNC F/F (RJ58)	Bulkhd	F	F

**Generic Bulkhead Interfaces**

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

**Connector to Terminal Block PCB**

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



## PLC CONNECTOR CODES

**Allen-Bradley (Rockwell Automation)**

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

**Data Highway**

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

**ControlNet**

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

## PLC NETWORK TAPS

**Network Taps**

B2	A-B DH+ (DB9F PCB)	Term	DB9F	Terminal Block
B3	A-B DH+ (8MDIN PCB)	Term	8MDINF	Terminal Block
B6	A-B DH+ / Remote I/O	Term	3RTBM	Terminal Block
B9	A-B DH+ Combo (DB9/8MDIN)	Term	8 MDIN/DB9F	Terminal Block
D3	Profi-Bus	Term	DB9F	Terminal Block
D4	DeviceNet (8A Max)	Term	5RTBM	Terminal Block
M4	Modicon ModBus Plus Tap	Term	RJ-45	Terminal Block
M9	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
XX	Null Connector code			

## Computer Interfaces

**Serial, Parallel**

P1	DB9 Serial	Extn	DB9M	DB9F
P9	DB25 Serial	Extn	DB25M	DB25F
P2	DB25 Parallel	Extn	DB25F	DB25M

## Keyboard, Mouse, & Monitor

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

## Other Parallel Pin-to-Pin Extension Cables

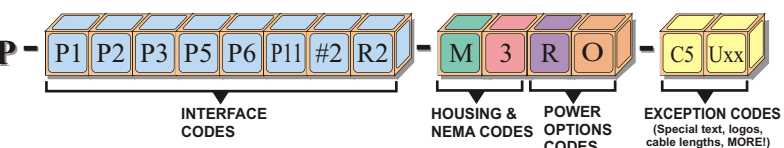
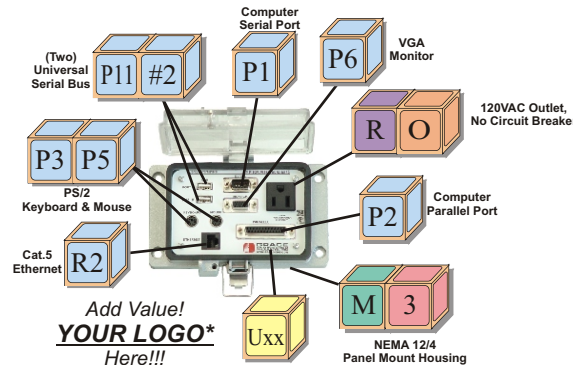
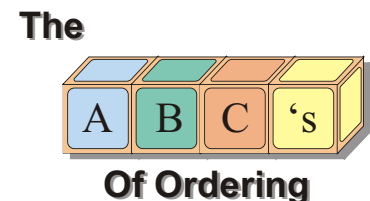
R3	DB9 F/M	Extn	DB9F	DB9M
P1	DB9 M/F	Extn	DB9M	DB9F
P2	DB25 F/M	Extn	DB25F	DB25M
R9	DB25 M/F	Extn	DB25M	DB25F
R6	DB37 M/F	Extn	DB37M	DB37F
R7	DB37 F/M	Extn	DB37F	DB37M
R10	DB15 M/F	Extn	DB15M	DB15F
R11	DB15 F/M	Extn	DB15F	DB15M
R44	DB15HDM M/F	Extn	M	F
R45	DB15HDM F/M (Not for VGA)	Extn	F	M
R8	8 Pin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

## Data Switch Interfaces

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



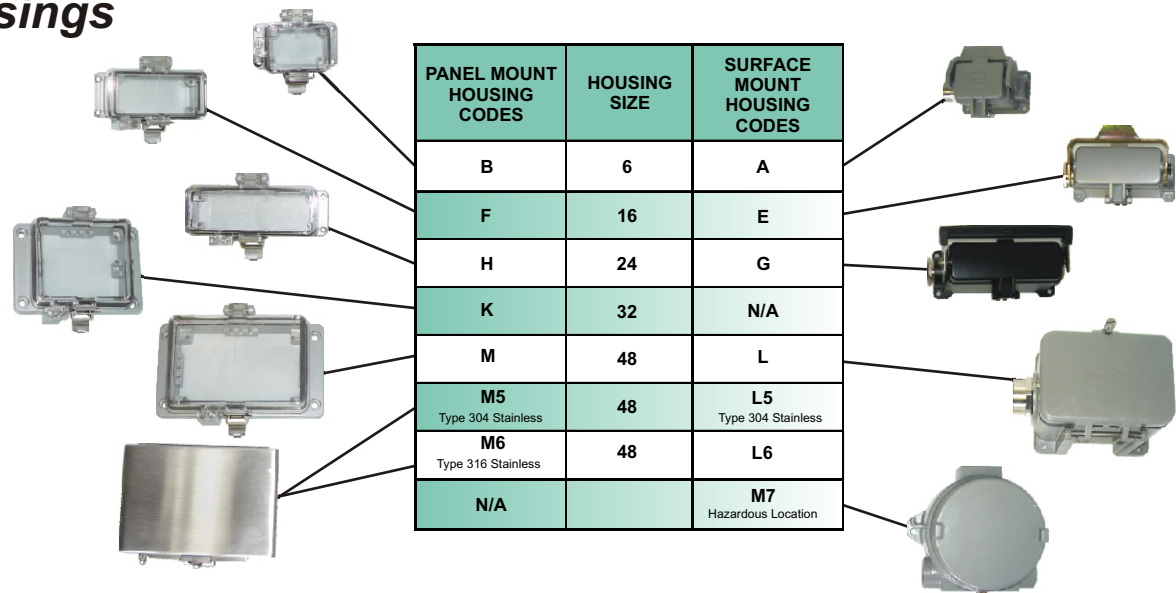
# GracePort® Interface Products Part Number Guide



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 ☑

Every Enclosure Type!

## ThruView™ Housings



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

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

Note: CALL for other power options not shown (other outlets, DC jacks, & customs)

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

Note (1) UL Type 4X Recognition Pending

CE: EN61010/EN60950 (Foreign Power Outlets)



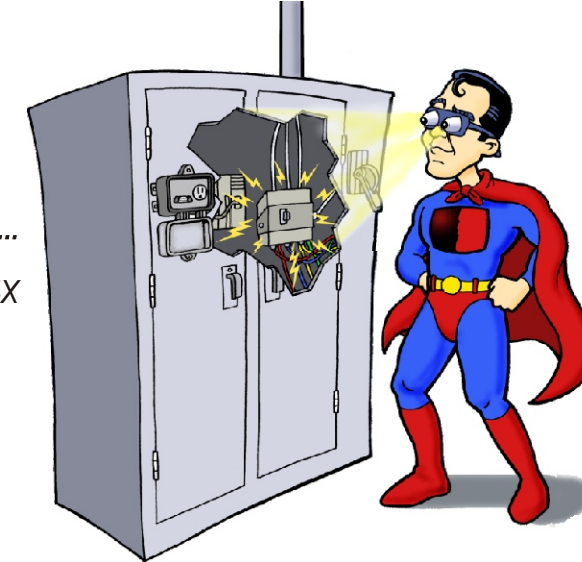
GracePort® Part Guide

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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