

MICRO-CHANGE® MULTI-PORT SPLITTER BOX SYSTEMS

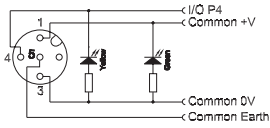
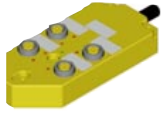


- **Frees up skilled workforce for more demanding tasks, whilst reducing the risk of wiring errors and increasing factory throughput**
- **Quick disconnect solution enables installation or maintenance by semiskilled operators, especially when unscheduled down time occurs through device or cable failure.**
- **Twin I/O versions increases the density of control devices per unit with LED indication of power and signals for fast fault finding**
- **Unique choice of either top or side mounted I/O connections for compact or low profile installations, all provided in a robust design sealed waterproof up to IP68**



Micro-Change® (M12) Multi-Port Splitter Boxes

5 pole 4 Wire – Single I/O Top-Mount Multi-Ports



Function	Cable Colour	M23 Connector Pin No	Mini-Change Pin No	Function	Cable Colour	M23 Connector Pin No	Mini-Change Pin No
+V	Brown	11	10	Earth	Green/Yellow	12	9
0V	Blue	9 & 10	11				
Port 1 P4	White	1	1	Port 5 P4	Pink	5	5
Port 2 P4	Green	2	2	Port 6 P4	Red	6	6
Port 3 P4	Yellow	3	3	Port 7 P4	Black	7	7
Port 4 P4	Grey	4	4	Port 8 P4	Violet	8	8

Cable

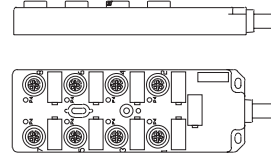
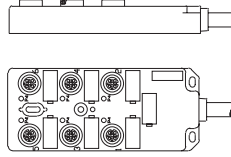
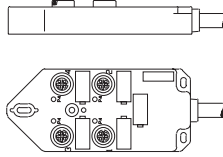
Length (m)

Integral Cable Entry

4 Port

6 Port

8 Port



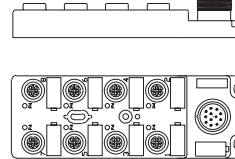
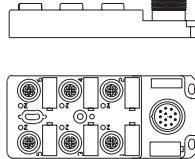
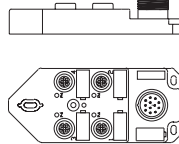
PVC	5.0	BTY400P-FBE-05	BTY600P-FBE-05	BTY800P-FBE-05
	10.0	BTY400P-FBE-10	BTY600P-FBE-10	BTY800P-FBE-10
	20.0	BTY400P-FBE-20	BTY600P-FBE-20	BTY800P-FBE-20
PUR	5.0	BTY400P-FBP-05	BTY600P-FBP-05	BTY800P-FBP-05
	10.0	BTY400P-FBP-10	BTY600P-FBP-10	BTY800P-FBP-10
	20.0	BTY400P-FBP-20	BTY600P-FBP-20	BTY800P-FBP-20

Integral M23 12 Pole Home Run Connector

4 Port

6 Port

8 Port



See top of page 19 for connectors

BTY401P-FBC

BTY601P-FBC

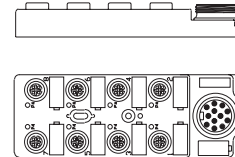
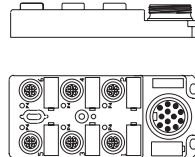
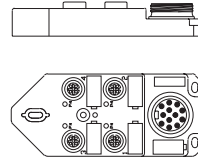
BTY801P-FBC

Integral Mini-Change® 12 Pole Home Run Connector

4 Port

6 Port

8 Port



See top of page 20 for connectors

BTY401P-FBB

BTY601P-FBB

BTY801P-FBB

Standard: Power and single status LED per port, identification labels, two sealing caps
Options: NPN format LED indication, choice of cable see page 40 for more information

OPTIONS

Multi-Port Splitter Box Matrix

B T Y 8 0 0 P - F B P - 0 5

Nano-Change® Multi-Ports
 BEY - End Cable Entry
 BNY - Top Cable Entry & Connector
Micro-Change® Multi-Ports
 BTY - Top Mount
 BSY - Side Mount

Number of Ports
 4 - 4 Ports 8 - 8 Ports
 6 - 6 Ports A - 10 Ports

Wiring Configuration
 00/01 - 5 Pole/4 Wire - Single I/O per port
 03/05 - 5 Pole/5 Wire - Twin I/O per port
 04 - 4 Pole/3 Wire - Single I/O per port - no earth

LED Configuration
 P - PNP Format N - NPN Format** 0 - No LEDs**

Length
 05 - 5 metres
 10 - 10 metres
 20 - 20 metres

Termination Options

Pre-wired versions*

E - PVC Cable
 P - PUR Cable
 M - PUR/PVC Cable

Connectorised versions

B - Mini-Change® Connector
 C - M16 or M23 Connector

Receptacle Material

FB - Standard
 FX - Plastic**
 FS - Stainless Steel**

Connector Matrix

8 0 3 0 0 0 E 0 3 M 0 2 0

Options:

Not all are available on standard delivery terms, please consult our sales office before ordering

* Refer to cable specification and use code indicated in matrix above

**NPN or no LED indication, select from above part number matrixes, minimum order quantity 25 pieces for Connectors and 5 pieces for Multi-Ports

**Coupling materials and connector colour minimum quantities apply to all orders

**Choice of suppression and LED colour for mPm® product, please request separate catalogue

Connector Type

Nano-Change® M8 Snap
 50 - Moulded Connector
 55 - Nano Jumper
 58 - Nano to Micro Jumper

Nano-Change® M8 Coupler
 40 - Moulded Connector
 44 - Nano Jumper
 48 - Nano to Micro Jumper

Micro-Change® M12 Coupler
 80 - Moulded Connector
 88 - Micro Jumper
 84 - Micro to Nano Jumper

mPm® DIN 43650 Jumpers
 D4 - Form B (10mm) to Nano
 E4 - Form A (18mm) to Nano
 F4 - Form B (11mm) to Nano
 G4 - Form C (9.4mm) to Nano
 H4 - Form C (8.0mm) to Nano
 D8 - Form B (10mm) to Micro
 E8 - Form A (18mm) to Micro
 F8 - Form B (11mm) to Micro
 G8 - Form C (9.8mm) to Micro
 H8 - Form C (8.0mm) to Micro

Cable ID No.*

E03 - Yellow PVC 0.34mm²
 P03 - Black PUR 0.34mm²
 S20 - Yellow SJTO type 0.34mm²

Cable Length

M010 - 1.0 metres
 M020 - 2.0 metres
 M030 - 3.0 metres

Coupling Materials**

1 - Stainless Steel 5 - Plastic

Connector Colour**

A - Grey Head Moulding G - Black Head Moulding

Head Configuration

Moulded Connectors

000 - Female Straight
 001 - Female 90°
 0N0 - Female Straight NPN LED**
 0N1 - Female 90° NPN LED**
 0P0 - Female Straight PNP LED
 0P1 - Female 90° PNP LED
 006 - Male Straight
 007 - Male 90°

Jumpers - Basic Brad® Only

030 - Female Straight to Male Straight
 031 - Female 90° to Male Straight
 032 - Female Straight to Male 90°
 033 - Female 90° to Male 90°
 0P6 - Female Straight PNP LED to Male Straight
 0P7 - Female 90° PNP LED to Male Straight
 0P8 - Female Straight PNP LED to Male 90°
 0P9 - Female 90° PNP LED to Male 90°

Number of Poles

3 - 3 Pole 5 - 5 Pole
 4 - 4 Pole 8 - 8 Pole

CONNECTOR SPECIFICATION

Series	40, 4R, 44, 50, 5R, 55	N03, N04	80, 8R, 88	8A	30	mPm® DIN 43650	L0	K0
Product	Nano-Change®	Nano-Change®	Micro-Change®	Micro-Change®	Mini-Change®	mPm® DIN 43650	M16 Connector	M23 Connector
Connector Type	Moulded & Receptacles	Attachables	Moulded & Receptacles	Attachables	Moulded	Moulded & Attachable	Moulded	Moulded
Connector Size	M8 Coupler & Snap	M8 Coupler	M12 Coupler	M12 Coupler	1 1/8" UNF Coupler	Form A, B & C	M16 Coupler	M23 Coupler
Number of Poles	3 to 5	3 & 4	3, 4, 5 & 8	4 & 5	12 & 19	2 + earth	14	12 & 19
Contact Material	Female: Gold plated Brass Male: Gold plated Brass	Gold plated Brass	Gold Plated Brass	Silver plated Brass	Gold plated Brass	Silver plated Brass	Gold plated Brass	Gold plated Brass
Insert Material	PUR	PA	PA	PA	PVC	PA (+G)	PPD	PUR
O-ring Material	Viton	Viton	Viton	Viton	n/a	Profiled NBR	EPDM - Rubber	NBR
Body Material	PVC	PA	PVC	PA	PVC	PP	PUR	PUR
Coupling Material	Nickel plated Brass	Nickel plated Brass	Epoxy Coated Zinc	Nickel plated Brass	Epoxy Coated Zinc	n/a	Aluminium	Nickel plated Brass
Voltage Rating	Standard: 60 Vac/75 Vdc	60 Vac/75 Vdc	3, 4 & 5 pole - 250 Vac/300 Vdc 8 pole - 30 Vac/36 Vdc	4 pole - 250 Vac/300 Vdc 5 pole - 30 Vac/36 Vdc	600 Vac/dc	250 Vac/dc	150 Vac/dc	63 Vac/dc
With LED	10 to 30 Vdc	n/a	10 to 30 Vdc	n/a	n/a	24 Vac/dc	n/a	n/a
Contact Current Rating	4 Amps	4 Amps	4 Amps	4 Amps	Ø 1.0mm - 4 Amps Ø 2.0mm - 13 Amps	Form A & B - 18 Amps Form C - 10 Amps	3 Amps	Ø 1.0mm - 6 Amps Ø 1.5mm - 12 Amps
Protection Class	IP67	IP67	IP68	IP68	IP68	IP65	IP67	IP67

Environmental Rating - IP68. To avoid confusion, we at Woodhead Connectivity have defined IP68 as immersion in water at a pressure of 100 pounds per square inch for a duration of one hour, and wash down at a pressure of 1000 pounds per square inch. When used with a mating pair of Brad Harrison® connectors.