molex®

PRE-WIRED SOLENOID CONNECTORS CONFORM TO INDUSTRY STANDARD EN 175301-803

When space and time are in short supply, Brad mPm DIN valve overmolded cordsets provide the perfect solution which also conform to Industry Standard EN 175301-803 (formerly DIN 43650). This is the standard for a series of electrical connectors, which are commonly used with solenoid valves - especially those used on hydraulic and pneumatic valves.

Brad® mPm® Molded Cable DIN Valve Connectors

Conform to EN 175301-803 (ex DIN 43650)

Our connectors with integrated cable are suitable for use with most types of solenoid valves. They offer a fast and efficient method of connection resulting in greatly reduced installation time and cost and it is always preferred in rugged applications. They can be supplied with or without LED indicators and surge suppression circuit. A diagram is printed on each electronic connector to allow an easy user identification.

molex®

DIN Valve connectors with molded cable, IP65 rated.
IP67 version available on request.
Conforms to EN 175301-803.

Brad® mPm® Molded Cable DIN Valve Connectors

121040 Form A, Overmolded Non-Electronic
121050 Form A, Overmolded Electronic

Specifications

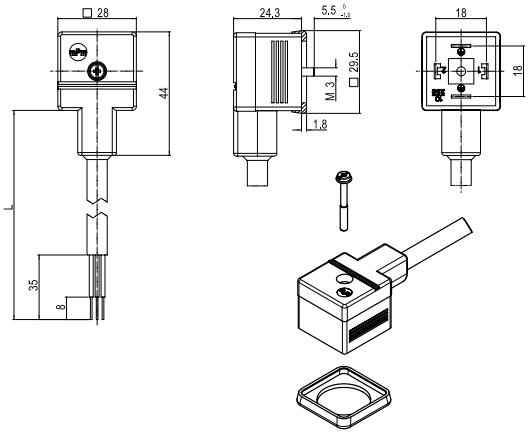
ELECTRICAL
Current: max. 5.0A
Contact Resistance: ≤15milliohms max.
Insulation Resistance:
100Megohms min.

MECHANICAL
Insertion and Withdrawal Force:
2+GND ≤ 60N

CERTIFICATION
UL recognized, *cURus* marked, file E218123 (product available upon request or specific part number)

PHYSICAL
Durability: min. 50 cycles
Contact Area: Silver
Solder Tail Area: Silver
Operating Temperature with:
Nitrile Rubber (NBR) Gasket: -40° +90°C
Silicone Gasket: -40° +125°C
Live Contact Distance: 18.00mm

ENVIRONMENTAL
IP65 sealing protection
(IP67 available on request)



Non Electronic

E15	2	N2	N	300	1	1

SERIE
E15=Overmolded Cordset Form A

POLES
2=2Poles+Ground **3**=3Poles+Ground

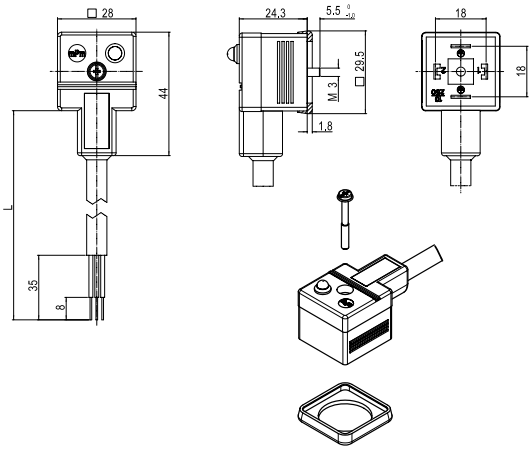
CABLE TYPE
see cable options on technical features page 28

HEAD COLOR
N=Black **G**=Gray **A**=UL Black (only with UL listed cable)

CABLE LENGTH
e.g. **050**=50cm **300**=3.0m **10K**=10.0m

GROUND LOCATION
1=Double Ground **H6**/H12 **2**=H12 **6**=H6

SCREW & GASKET
1=Profile NBR Gasket & Screw, **2**=Flat NBR Gasket & Screw
3=White Silicone Profile Gasket & Screw, **4**=White Silicone Flat Gasket & Screw
P=NBR Integrated Gasket Assembled + IP67 Screw



Electronic

E45	2	N2	N	300	1	1	C4	2

SERIE
E45=Overmolded Cordset Form A

POLES
2=2Poles+Ground

CABLE TYPE
see cable options on technical features page 28

HEAD COLOR
N=Black **G**=Gray **A**=UL Black (only with UL listed cable)

CABLE LENGTH
e.g. **050**=50cm **300**=3.0m **10K**=10.0m

GROUND LOCATION
1=Double Ground **H6**/H12

SCREW & GASKET
1=Profile NBR Gasket & Screw, **2**=Flat NBR Gasket & Screw
3=White Silicone Profile Gasket & Screw, **4**=White Silicone Flat Gasket & Screw
P=NBR Integrated Gasket Assembled + IP67 Screw

CIRCUIT
see page 29

VOLTAGE & LED COLOR
see page 29

Note: UL listed part number identified by combining UL listed cable with UL overmolding material
e.g. E152A3A30011

Build your connector using the intelligent part number system and contact your local sales representative to identify the proper EDP number to use in your purchase orders

Ground Position	Poles	Circuit	Voltage	LED Color	Engineering No.	Standard Order No.
H6/H12	2+Ground	NO	250V	NO	E152N3N10011	121040-0140
H12	3+Ground	NO	250V	NO	E153N3N10021	121040-0210
H6	3+Ground	NO	250V	NO	E153N3N10061	121040-0212
H6/H12	2+Ground	C4	24V AC/DC	yellow	E452N3N10011C4H	121050-0554
H6/H12		C4	230V AC/DC	yellow	E452N3N10011C4M	121050-1867

molex®

DIN Valve connectors with molded cable, IP65 rated. IP67 version available on request.

Brad® mPm® Molded Cable DIN Valve Connectors

121040 Form Industrial, Overmolded, Non-Electronic
121050 Form Industrial, Overmolded, Electronic

Specifications

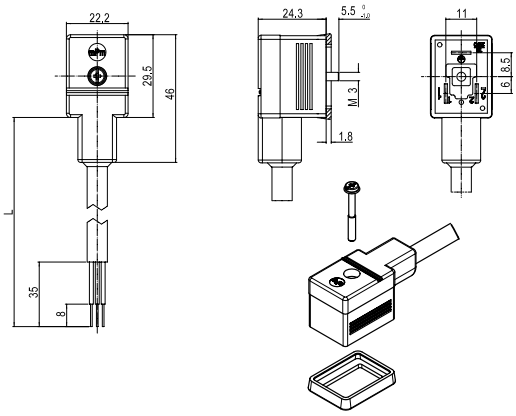
ELECTRICAL
Current: max. 5.0A
Contact Resistance: ≤15milliohms max.
Insulation Resistance:
100Megohms min.

MECHANICAL
Insertion and Withdrawal Force:
2+GND ≤ 60N

CERTIFICATION
UL recognized, *cURus* marked, file E218123 (product available upon request or specific part number)

PHYSICAL
Durability: min. 50 cycles
Contact Area: Silver
Solder Tail Area: Silver
Operating Temperature with:
Nitrile Rubber (NBR) Gasket: -40° +90°C
Silicone Gasket: -40° +125°C
Live Contact Distance: 11.00mm

ENVIRONMENTAL
IP65 sealing protection
(IP67 available on request)



Non Electronic

E16	2	N2	N	300	2	1

SERIE
E16=Overmolded Cordset Form Industrial

POLES
2=2Poles+Ground

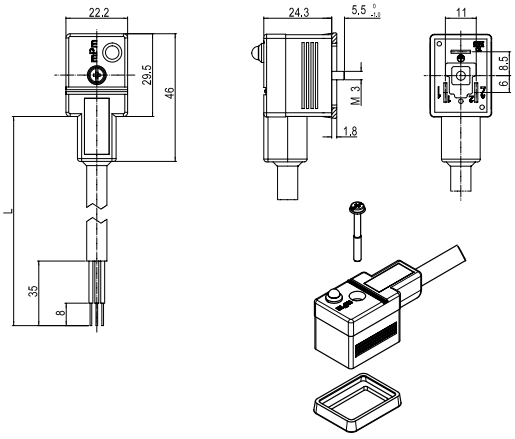
CABLE TYPE
see cable options on technical features page 28

HEAD COLOR
N=Black **G**=Gray **A**=UL Black (only with UL listed cable)

CABLE LENGTH
e.g. **050**=50cm **300**=3.0m **10K**=10.0m

GROUND LOCATION
2=H12 **6**=H6

SCREW & GASKET
1=Profile NBR Gasket & Screw, **2**=Flat NBR Gasket & Screw
3=White Silicone Profile Gasket & Screw, **4**=White Silicone Flat Gasket & Screw
P=NBR Integrated Gasket Assembled + IP67 Screw



Electronic

E46	2	N2	N	300	2	1	C4	2

SERIE
E46=Overmolded Cordset Form Industrial

POLES
2=2Poles+Ground

CABLE TYPE
see cable options on technical features page 28

HEAD COLOR
N=Black **G**=Gray **A**=UL Black (only with UL listed cable)

CABLE LENGTH
e.g. **050**=50cm **300**=3.0m **10K**=10.0m

GROUND LOCATION
2=H12 **6**=H6

SCREW & GASKET
1=Profile NBR Gasket & Screw, **2**=Flat NBR Gasket & Screw
3=White Silicone Profile Gasket & Screw, **4**=White Silicone Flat Gasket & Screw
P=NBR Integrated Gasket Assembled + IP67 Screw

CIRCUIT
see page 29

VOLTAGE & LED COLOR
see page 29

Note: UL listed part number identified by combining UL listed cable with UL overmolding material
e.g. E152A3A30011

Build your connector using the intelligent part number system and contact your local sales representative to identify the proper EDP number to use in your purchase orders

Ground Position	Poles	Circuit	Voltage	LED Color	Engineering No.	Standard Order No.
H12	2+Ground	NO	250V	NO	E162N3N10021	121040-0295
H6		NO	250V	NO	E162N3N10061	121040-0297
H12		C4	24V AC/DC	yellow	E462N3N10021C4H	121050-1097
H6		C4	24V AC/DC	yellow	E462N3N10061C4H	121050-1108
H12		C4	230V AC/DC	yellow	E462N3N10021C4M	121050-3473
H6		C4	230V AC/DC	yellow	E462N3N10061C4M	121050-3474

molex®

DIN Valve connectors with molded cable, IP65 rated.
IP67 version available on request.
Conforms to EN 175301-803.

Brad® mPm® Molded Cable DIN Valve Connectors

121040 Form B, Overmolded Non-Electronic
121050 Form B, Overmolded Electronic

Specifications

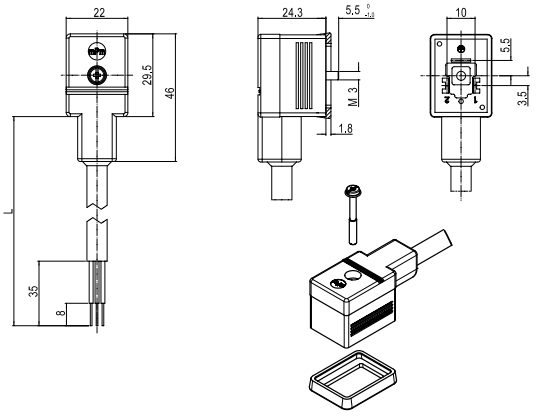
ELECTRICAL
Current: max. 5.0A
Contact Resistance: ≤15milliohms max.
Insulation Resistance:
100Megohms min.

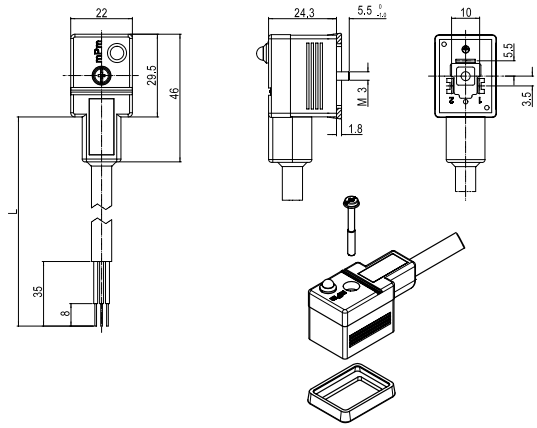
MECHANICAL
Insertion and Withdrawal Force:
2+GND ≤ 60N

CERTIFICATION
UL recognized, *cURus* marked, file E218123 (product available upon request or specific part number)

PHYSICAL
Durability: min. 50 cycles
Contact Area: Silver
Solder Tail Area: Silver
Operating Temperature with:
Nitrile Rubber (NBR) Gasket:
-40° +90°C
Silicone -40° +125°C
Live Contact Distance: 10.00mm

ENVIRONMENTAL
IP65 sealing protection
(IP67 available on request)





Non Electronic

E07	2	N2	N	300	2	1

SERIE
E07=Overmolded Cordset Form B

POLES
2=2Poles+Ground

CABLE TYPE
see cable options on technical features page 28

HEAD COLOR
N=Black **G**=Gray **A**=UL Black (only with UL listed cable)

CABLE LENGTH
e.g. **050**=50cm **300**=3.0m **10K**=10.0m

GROUND LOCATION
2=H12 **6**=H6

SCREW & GASKET
1=Profile NBR Gasket & Screw, **2**=Flat NBR Gasket & Screw
3=White Silicone Profile Gasket & Screw, **4**=White Silicone Flat Gasket & Screw
P=NBR Integrated Gasket Assembled + IP67 Screw

Electronic

E47	2	N2	N	300	2	1	C4	2

SERIE
E47=Overmolded Cordset Form A

POLES
2=2Poles+Ground

CABLE TYPE
see cable options on technical features page 28

HEAD COLOR
N=Black **G**=Gray **A**=UL Black (only with UL listed cable)

CABLE LENGTH
e.g. **050**=50cm **300**=3.0m **10K**=10.0m

GROUND LOCATION
2=H12 **6**=H6

SCREW & GASKET
1=Profile NBR Gasket & Screw, **2**=Flat NBR Gasket & Screw
3=White Silicone Profile Gasket & Screw, **4**=White Silicone Flat Gasket & Screw
P=NBR Integrated Gasket Assembled + IP67 Screw

CIRCUIT
see page 29

VOLTAGE & LED COLOR
see page 29

Note: UL listed part number identified by combining UL listed cable with UL overmolding material
e.g. E152A3A30011

Build your connector using the intelligent part number system and contact your local sales representative to identify the proper EDP number to use in your purchase orders

Ground Position	Poles	Circuit	Voltage	LED Color	Engineering No.	Standard Order No.
H12	2+Ground	NO	250V	NO	E072N3N10021	121040-1254
H6		NO	250V	NO	E072N3N10061	121040-1401
H12		C4	24V AC/DC	yellow	E472N3N10021C4H	121050-3475
H6		C4	24V AC/DC	yellow	E472N3N10061C4H	121050-3477
H12		C4	230V AC/DC	yellow	E472N3N10021C4M	121050-3476
H6		C4	230V AC/DC	yellow	E472N3N10061C4M	121050-3478

molex®

DIN Valve connectors with molded cable, IP65 rated.
IP67 version available on request.
Conforms to EN 175301-803.

Brad® mPm® Molded Cable DIN Valve Connectors

121040 Form C, Overmolded Non-Electronic
121050 Form C, Overmolded Electronic

Specifications

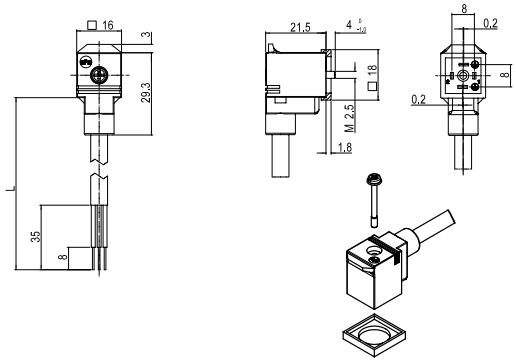
ELECTRICAL
Current: max. 3.0A
Contact Resistance: ≤15milliohms max.
Insulation Resistance:
100Megohms min.

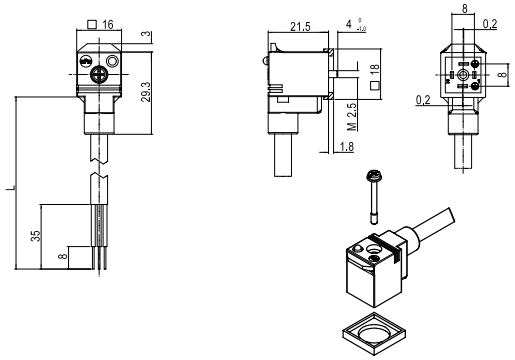
MECHANICAL
Insertion and Withdrawal Force:
2+GND ≤ 60N

CERTIFICATION
UL recognized, *cURus* marked, file E218123 (product available upon request or specific part number)

PHYSICAL
Durability: min. 50 cycles
Contact Area: Silver
Solder Tail Area: Silver
Operating Temperature with:
Nitrile Rubber (NBR) Gasket: -40° +90°C
Silicone Gasket: -40° +125°C
Live Contact Distance: 8.00mm

ENVIRONMENTAL
IP65 sealing protection
(IP67 available on request)





Non Electronic

E43 | 2 | N2 | N | 300 | 1 | 1

SERIE
E43=Overmolded Cordset Form C

POLES
2=2Poles+Ground **3**=3Poles+Ground

CABLE TYPE
see cable options on technical features page 28

HEAD COLOR
N=Black **G**=Gray **A**=UL Black (only with UL listed cable)

CABLE LENGTH
e.g. **050**=50cm **300**=3.0m **10K**=10.0m

GROUND LOCATION
1=Double Ground H6/H12 **2**=H12 **6**=H6

SCREW & GASKET
1=Profile NBR Gasket & Screw, **2**=Flat NBR Gasket & Screw
3=White Silicone Profile Gasket & Screw, **4**=White Silicone Flat Gasket & Screw
T=Profile NBR Gasket + IP67 Fixing Screw

Electronic

E49 | 2 | N2 | N | 300 | 1 | 1 | C4 | 2

SERIE
E49=Overmolded Cordset Form C

POLES
2=2Poles+Ground

CABLE TYPE
see cable options on technical features page 28

HEAD COLOR
N=Black **G**=Gray **A**=UL Black (only with UL listed cable)

CABLE LENGTH
e.g. **050**=50cm **300**=3.0m **10K**=10.0m

GROUND LOCATION
1=Double Ground H6/H12 **2**=H12 **6**=H6

SCREW & GASKET
1=Profile NBR Gasket & Screw, **2**=Flat NBR Gasket & Screw
3=White Silicone Profile Gasket & Screw, **4**=White Silicone Flat Gasket & Screw
T=Profile NBR Gasket + IP67 Fixing Screw

CIRCUIT
see page 29

VOLTAGE & LED COLOR
see page 29

Note: UL listed part number identified by combining UL listed cable with UL overmolding material
e.g. E152A3A30011

Build your connector using the intelligent part number system and contact your local sales representative to identify the proper EDP number to use in your purchase orders

Ground Position	Poles	Circuit	Voltage	LED Color	Engineering No.	Standard Order No.
H6/H12	2+Ground	NO	250V	NO	E432N2N10011	121040-0491
H12	3+Ground	NO	250V	NO	E433N2N10021	121040-1258
H6		NO	250V	NO	E433N2N10061	121040-0730
H6/H12	2+Ground	C4	24V AC/DC	yellow	E492N2N10011C4H	121050-1466
H6/H12		C4	230V AC/DC	yellow	E492N2N10011C4M	121050-3479

molex®

DIN Valve connectors with molded cable, IP65 rated. IP67 version available on request.

Brad® mPm® Molded Cable DIN Valve Connectors

121040 Form Micro, Overmolded, Non-Electronic
121050 Form Micro, Overmolded, Electronic

Specifications

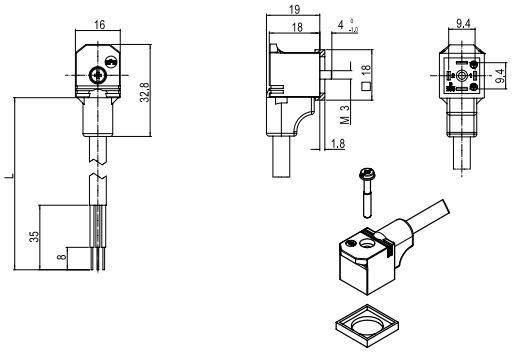
ELECTRICAL
Current: max. 3.0A
Contact Resistance: ≤15milliohms max.
Insulation Resistance:
100Megohms min.

MECHANICAL
Insertion and Withdrawal Force:
2+GND ≤ 60N

CERTIFICATION
UL recognized, *cURus* marked, file E218123 (product available upon request or specific part number)

PHYSICAL
Durability: min. 50 cycles
Contact Area: Silver
Solder Tail Area: Silver
Operating Temperature with:
Nitrile Rubber (NBR) Gasket: -40° +90°C
Silicone Gasket: -40° +125°C
Live Contact Distance: 9.40mm

ENVIRONMENTAL
IP65 sealing protection (IP67 available on request)



Non Electronic

E33 | 2 | N2 | N | 300 | 1 | 1

SERIE
E33=Overmolded Cordset Form Micro

POLES
2=2Poles+Ground **3**=3Poles+Ground

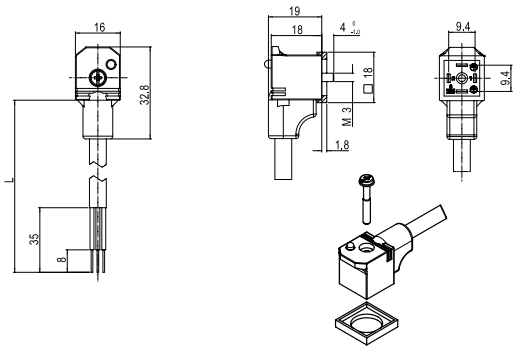
CABLE TYPE
see cable options on technical features page 28

HEAD COLOR
N=Black **G**=Gray **A**=UL Black (only with UL listed cable)

CABLE LENGTH
e.g. **050**=50cm **300**=3.0m **10K**=10.0m

GROUND LOCATION
1=Double Ground H6/H12 **2**=H12 **6**=H6

SCREW & GASKET
1=Profile NBR Gasket & Screw, **2**=Flat NBR Gasket & Screw
3=White Silicone Profile Gasket & Screw, **4**=White Silicone Flat Gasket & Screw
T=Profile NBR Gasket + IP67 Fixing Screw



Electronic

E39 | 2 | N2 | N | 300 | 1 | 1 | C4 | 2

SERIE
E39=Overmolded Cordset Form Micro

POLES
2=2Poles+Ground

CABLE TYPE
see cable options on technical features page 28

HEAD COLOR
N=Black **G**=Gray **A**=UL Black (only with UL listed cable)

CABLE LENGTH
e.g. **050**=50cm **300**=3.0m **10K**=10.0m

GROUND LOCATION
1=Double Ground H6/H12 **2**=H12 **6**=H6

SCREW & GASKET
1=Profile NBR Gasket & Screw, **2**=Flat NBR Gasket & Screw
3=White Silicone Profile Gasket & Screw, **4**=White Silicone Flat Gasket & Screw
T=Profile NBR Gasket + IP67 Fixing Screw

CIRCUIT
see page 29

VOLTAGE & LED COLOR
see page 29

Note: UL listed part number identified by combining UL listed cable with UL overmolding material
e.g. E152A3A30011

Build your connector using the intelligent part number system and contact your local sales representative to identify the proper EDP number to use in your purchase orders

Ground Position	Poles	Circuit	Voltage	LED Color	Engineering No.	Standard Order No.
H6/H12	2+Ground	NO	250V	NO	E332N2N10011	121040-0422
H12	3+Ground	NO	250V	NO	E333N2N10021	121040-1260
H6		NO	250V	NO	E333N2N10061	121040-1402
H6/H12	2+Ground	C4	24V AC/DC	yellow	E392N2N10011C4H	121050-0076
H6/H12		C4	230V AC/DC	yellow	E392N2N10011C4M	121050-3472

molex®

DIN Valve connectors with molded cable, IP65 rated. IP67 version available on request.

Brad® mPm® Molded Cable DIN Valve Connectors

121035 DIN Valve to Brad M12, Overmolded, Non-Electronic
121036 DIN Valve to Brad M12, Overmolded, Electronic

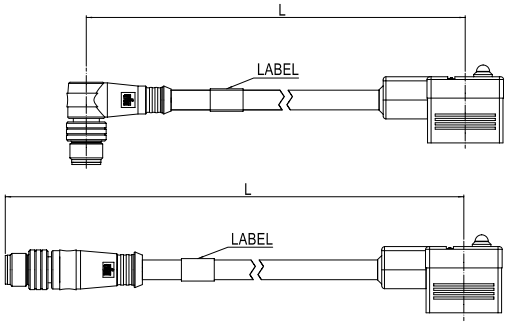
Specifications

ELECTRICAL
Current: max. 3.0 or 5.0A
Contact Resistance: ≤15milliohms max.
Insulation Resistance:
100Megohms min.

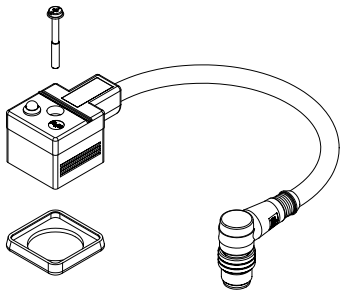
MECHANICAL
Insertion and Withdrawal Force:
2+GND ≤ 60N

PHYSICAL
Durability: min. 50 cycles
Contact Area: Silver
Solder Tail Area: Silver
Operating Temperature with:
Nitrile Rubber (NBR) Gasket: -40° +90°C
Silicone Gasket: -40° +125°C
Live Contact Distance:

Form A	18.00mm
Form Industrial	11.00mm
Form B	10.00mm
Form C	8.00mm
Form Micro	9.40mm



This technical data is referred on the DIN connector head, for Brad connector data please refer to the proper catalogue



Electronic and Non Electronic

E 8 5 0 B 0 P12 M 100

DIN BODY STYLE
D=Form B 10.00mm (2P+Ground)
E=Form A 18.00mm (2P+Double Ground)
F=Form Ind. 11.00mm (2P+Ground)
G=Form Micro 9.40mm (2P+Double Ground)
H=Form C 8.0mm (2P+Double Ground)

SECOND END OF CABLE
1=Mini-Change Connector
4=Nano-Change M8 Connector
8=Micro-Change M12 Connector

NUMBER OF POLES
3=3 Poles For Mini-Change
5=5 Poles for Micro-Change M12

WIRING
0=Default Standard Wiring

CIRCUIT, VOLTAGE & LED COLOR
A= Circuit S0 24V and Yellow LED
B= Circuit C4 24V and Yellow LED
C= Circuit S0 110v and Yellow LED
D= Circuit C4 110v and Yellow LED
0= No Circuit

SECOND HEAD BODY STYLE
0= Micro-Change M12 Male Straight
Ground on DIN Head DIN H6 (H6/12 for cordset with Double Ground)
1= Micro-Change M12 Male Straight
Ground on DIN Head DIN H12 (not for Double Ground DIN)
2= Micro-Change M12 Male 90°
Ground on DIN Head DIN H6 (H6/12 for cordset with Double Ground)
3= Micro-Change M12 Male 90°
Ground on DIN Head DIN H12 (not for Double Ground DIN)
4= Mini-Change Male Straight
Ground on DIN Head DIN H6 (H6/12 for cordset with Double Ground)
5= Mini-Change Male Straight
Ground on DIN Head DIN H12 (not for Double Ground DIN)
6= Mini-Change Male 90°
Ground on DIN Head DIN H6 (H6/12 for cordset with Double Ground)
7= Mini-Change Male 90°
Ground on DIN Head DIN H12 (not for Double Ground DIN)

CABLE UNIT OF MEASURE
A23=Black PVC 0.75mm²
E12=Black PVC 0.50mm²
P12=Black PUR 0.50mm²
B08=Yellow PUR 18 AWG

CABLE UNIT OF MEASURE
M=Meters

CABLE LENGTH
e.g. **003**=0.3m **010**=1m **100**=10m

Build your connector using the intelligent part number system and contact your local sales representative to identify the proper EDP number to use in your purchase orders

Ground Position	Poles	Circuit	Voltage	LED Color	Engineering No.	Standard Order No.
Check Sales Drawing on www.molex.com	2+Ground	C4	24V AC/DC	yellow	D850B0P12M010	121036-0825
					E850B0P12M010	121036-0193
					F850B0P12M010	121036-0255
					G850B0P12M010	121036-0277
					H850B0P12M010	121036-0296

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DIN Valve connectors with molded cable, IP65 rated. IP67 version available on request.

Brad® mPm® Molded Cable DIN Valve Connectors

121055 DUAL DIN Valve, Overmolded, Non-Electronic or Electronic

Specifications

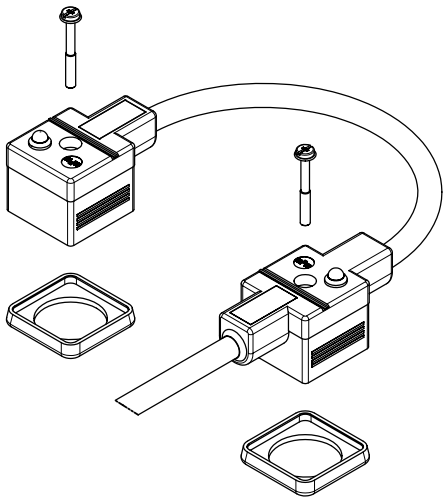
ELECTRICAL
Current: max. 5.0A
Contact Resistance: ≤15milliohms max.
Insulation Resistance:
100Megohms min.

MECHANICAL
Insertion and Withdrawal Force:
2+GND ≤ 60N

PHYSICAL
Durability: min. 50 cycles
Contact Area: Silver
Solder Tail Area: Silver
Operating Temperature with:
Nitrile Rubber (NBR) Gasket: -40° +90°C
Silicone Gasket: -40° +125°C
Live Contact Distance:

Form A	18.00mm
Form Industrial	11.00mm
Form B	10.00mm

ENVIRONMENTAL
IP65 sealing protection
(IP67 available on request)



This technical data is referred on the DIN connector head, for Brad connector data please refer to the proper catalogue

Electronic and Non Electronic

E6 5 2 N2 N A 26 1 1 C4 1

SERIE
E6=Overmolded Dual DIN Cordset

SERIE
5=Form A **6**=Form Industrial **7**=Form B

NUMBER OF POLES
2=2 Poles + No GND connected
3=2 Poles + GND connected
A=M12 Straight **B**=M12 90°

CABLE
see cable options on technical features page 28

HEAD COLOR
N=Black **G**=Gray **A**=UL Black (only with UL listed cable)

MAIN CABLE LENGTH (m)
A=1 **B**=1,5 **C**=2 **D**=2,5 **E**=3 **F**=3,5 **G**=4 **H**=4,5 **L**=5 **M**=5,5 **N**=6
P=6,5 **Q**=7 **R**=7,5 **S**=8 **T**=8,5 **U**=9 **K**=10 **0**=M12 Molded on DIN Head

DISTANCE BETWEEN THE HEADS
e.g. **26**=26cm (min distance between 2 heads 13cm)

GROUND LOCATION
1=Double Ground H6/H12 **2**=H12 **6**=H6

SCREW & GASKET
1=Profile NBR Gasket & Screw, **2**=Flat NBR Gasket & Screw
3=White Silicone Profile Gasket & Screw, **4**=White Silicone Flat Gasket & Screw
P=Integrated NBR Gasket Assembled + IP67 Fixing Screw

CIRCUIT
see circuit page No. 29

VOLTAGE & LED COLOR
see here below

Build your connector using the intelligent part number system and contact your local sales representative to identify the proper EDP number to use in your purchase orders

Ground Position	Poles	Circuit	Voltage	LED Color	Engineering No.	Standard Order No.
Check Sales Drawing on www.molex.com	2+Ground connected	C4	24V AC/DC	yellow	E653P3NA1311C4H	121055-0161
			230V AC/DC		E653P3NA1311C4M	121055-0292
	2+Ground not connected		24V AC/DC		E662P3NA1361C4H	121055-0293
			230V AC/DC		E662P3NA1361C4M	121055-0294
			24V AC/DC		E672P3NA1361C4H	121055-0295
			230V AC/DC		E672P3NA1361C4M	121055-0296

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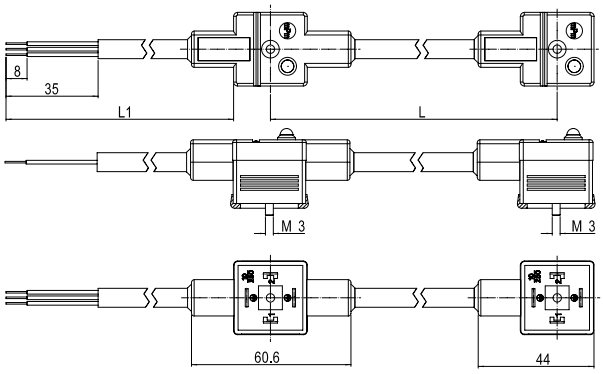
DIN Valve connectors with molded cable, IP65 rated.
IP67 version available on request.

Brad® mPm® Molded Cable DIN Valve Connectors

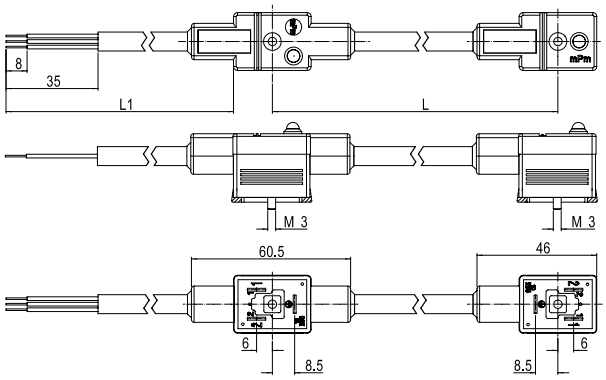
121055 DUAL DIN Valve,
Overmolded,
Non-Electronic or Electronic

E65 Dual DIN
Form A



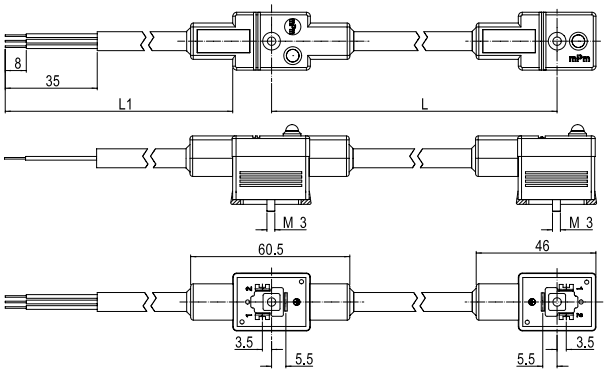
Flying Lead

E66 Dual DIN
Form Industrial



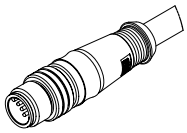
Flying Lead

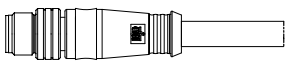
E67 Dual DIN
Form B



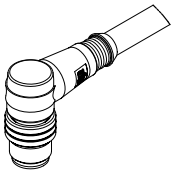
Flying Lead

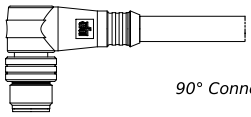
Brad
Micro-Change M12





M12
Straight Connector





M12
90° Connector

molex®

Several cable options available, custom cable available upon request.

Brad® mPm® Molded Cable DIN Valve Connectors

Cable Options

Cable Types

Cable Type	Code	Features
Harmonized PVC	**N**	Cable used for general purpose, has a good resistance to water but usually poor against chemical oils.
PVC CEI 2022 II	**I**	Approved to iec332-2a, it is flame retardant and self estinguish, limited resistance against mineral oils.
PUR Blend	**P**	This cable offers a good resistance against chemicals and oils but has a poor resistance to water.
PVC UL 2661	**A**	Approved UL2661, application for general purpose. This cable has a good resistance to water but usually poor oil resistance.
PUR UL 20668	**B**	Approved UL20668, cable with very good resistance against oils and chemicals.

Technical Features

Cable Code	Strand / Cross	Type	External Diam. (mm)		Temp. Range (static)		Bending Radius (mm)	
			nominal	tolerance	min (°C)	max (°C)	static	dinamic
I 2	2x0.50mm²	PVC CEI 2022 II	5,50	+0,4/-0,0	-25	+70	>10xD	>15xD
I 2	3x0.50mm²	PVC CEI 2022 II	5,50	+0,4/-0,0	-25	+70	>10xD	>15xD
I 2	4x0.50mm²	PVC CEI 2022 II	6,50	±0,3	-25	+70	>10xD	>15xD
P 2	2x0.50mm²	PUR BLEND	5,50	±0,3	-40	+90	>7,5xD	>12,5xD
P 2	3x0.50mm²	PUR BLEND	5,50	+0,5/-0,0	-40	+90	>7,5xD	>12,5xD
P 2	4x0.50mm²	PUR BLEND	6,50	±0,3	-40	+90	>7,5xD	>12,5xD
A 2	2x20 AWG	PVC UL 2661	5,40	±0,3	-30	+105	>10xD	>15xD
A 2	3x20 AWG	PVC UL 2661	5,60	±0,3	-30	+105	>10xD	>15xD
A 2	4x20 AWG	PVC UL 2661	6,20	±0,35	-30	+105	>10xD	>15xD
B 2	2x20 AWG	PUR UL 20668	5,60	±0,3	-40	+90	>5xD	>10xD
B 2	3x20 AWG	PUR UL 20668	5,60	±0,3	-40	+90	>5xD	>10xD
B 2	4x20 AWG	PUR UL 20668	6,30	±0,3	-40	+90	>5xD	>10xD
N 2	2x0.50mm²	HARMONIZED PVC H03	5,20	±0,3	-20	+70	>3xD	NA
N 2	3x0.50mm²	HARMONIZED PVC H03	5,50	±0,3	-20	+70	>3xD	NA
N 2	4x0.50mm²	HARMONIZED PVC H03	5,90	±0,4	-20	+70	>3xD	NA
I 3	2x0.75mm²	PVC CEI 2022 II	5,50	±0,3	-25	+70	>10xD	>15xD
I 3	3x0.75mm²	PVC CEI 2022 II	6.00	±0,3	-25	+70	>10xD	>15xD
I 3	4x0.75mm²	PVC CEI 2022 II	7.00	±0,3	-25	+70	>10xD	>15xD
P 3	2x0.75mm²	PUR BLEND	6,50	±0,3	-40	+90	>7,5xD	>12,5xD
P 3	3x0.75mm²	PUR BLEND	6,50	±0,3	-40	+90	>7,5xD	>12,5xD
P 3	4x0.75mm²	PUR BLEND	7.00	±0,3	-40	+90	>7,5xD	>12,5xD
A 3	2x18 AWG	PVC UL 2661	6,20	±0,35	-30	+105	>10xD	>15xD
A 3	3x18 AWG	PVC UL 2661	6,50	±0,35	-30	+105	>10xD	>15xD
A 3	4x18 AWG	PVC UL 2661	7.00	+0,4/-0,0	-30	+105	>10xD	>15xD
B 3	2x18 AWG	PUR UL 20668	6,20	±0,3	-40	+90	>5xD	>10xD
B 3	3x18 AWG	PUR UL 20668	6,50	±0,3	-40	+90	>5xD	>10xD
B 3	4x18 AWG	PUR UL 20668	7.00	±0,3	-40	+90	>5xD	>10xD
N 3	2x0.75mm²	HARMONIZED PVC H05	6,20	±0,3	-20	+70	>9xD	NA
N 3	3x0.75mm²	HARMONIZED PVC H05	6,50	±0,3	-20	+70	>9xD	NA
N 3	4x0.75mm²	HARMONIZED PVC H05	7,10	±0,4	-20	+70	>9xD	NA
I 4	2x1mm²	PVC CEI 2022 II	7,10	±0,3	-25	+70	>10xD	>15xD
I 4	3x1mm²	PVC CEI 2022 II	7,10	+0,4/-0,0	-25	+70	>10xD	>15xD
N 4	2x1mm²	HARMONIZED PVC H05	6,50	±0,3	-20	+70	>9xD	NA
N 4	3x1mm²	HARMONIZED PVC H05	6,90	±0,3	-20	+70	>9xD	NA

molex®

Our circuit range provides LED indication or suppressor circuitry for surge protection.

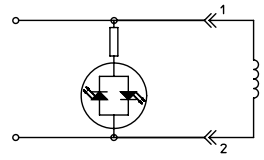
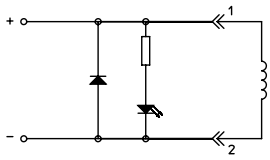
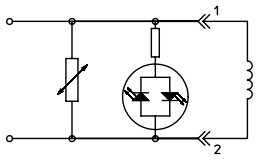
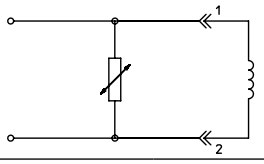
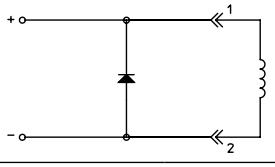
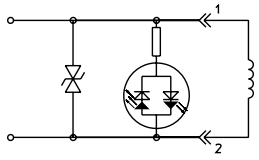
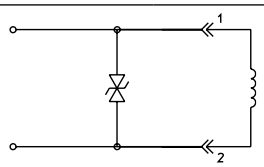
Many other circuit configurations are available upon request; contact your local sales representative to identify the proper EDP number to use in your purchase orders.

Brad® mPm® DIN Valve Connectors

Circuit Options

SUPPLY VOLTAGE AND LED COLOR

1 = 12V	A = 12V	G = 12V
2 = 24V	B = 24V	H = 24V
3 = 48V	C = 48V	K = 48V
4 = 115V	D = 115V	L = 115V
5 = 230V	E = 230V	M = 230V
Red LED	Green LED	Yellow LED

Input	Circuit Schematic	Load	Circuit Description	Available on Product Type
V AC/DC			**CIRCUIT A1** With bipolar LED, provides a luminous signal when power is applied	Connectors Serie S, Serie E (only with Electronic) and Serie A
V DC			**CIRCUIT C3** With LED and diode to protect against peak of overvoltage when switching off	Connectors Serie S, Serie E (only with Electronic) and Serie A
V AC/DC			**CIRCUIT C4** With bipolar LED and VDR to protect supply and switch against peak of overvoltage.	Connectors Serie S, Serie E (only with Electronic) and Serie A
V AC/DC			**CIRCUIT D0** With VDR to protect supply and switch from peak of overvoltage	Connectors Serie S, Serie E (only with Electronic)
V DC			**CIRCUIT E0** With diode to protect against peak of overvoltage when switching off	Connectors Serie S, Serie E (only with Electronic)
V AC/DC			**CIRCUIT S0** With transient suppressor (transil) to provide blocking of input and output overvoltage. a bipolar LED provide a visual information when power is applied.	Connectors Serie S, Serie E (only with Electronic) and Serie A
V AC/DC			**CIRCUIT S1** With transient suppressor (transil) to provide blocking of input and output overvoltage.	Connectors Serie S, Serie E (only with Electronic)