mPm™ DIN 43650 CONNECTORS



FEATURES:

- Highest quality, robust connectors for hydraulic and pneumatic electromechanical devices
- •Broad offering of DIN 43650 connectors and devices
- •Combined Brad® and mPm™ cordsets

BENEFITS:

- Provide you with confidence that your mPm DIN 43650 connector will perform
- Provide you with a clear choice from leaders in input/output device connectivity

Device output connectivity has been simplified with the mPm™ DIN 43650 line of connectors, brought to you by Woodhead Connectivity. mPm devices give you choices -- in circuitry, orientation, pre-wired and field attachable versions -- to meet your applications needs.

When matched with our Brad Harrison® connector line, connecting your machinery output and input devices through your multi-port interconnection system is one simple solution away.

Whether your application requires a standard or custom designed interconnection scheme, you can count on Woodhead Connectivity to deliver. Indeed, we have the product line breadth and high quality reputation to provide you with the right solution.









mPm[™] DIN 43650 Connectors and Devices

As part of a total solution from Woodhead Connectivity, all mPm connectors and devices offer:

Features	Benefits
18, 11, 10, 9.4 and 8mm Standard DIN 43650 Connector and Device Platforms	Connects to all DIN Standard Solenoid Pressure Switches
24V AC/DC, 115V AC/DC and 230V AC/DC Ratings Available	Supports the Widest Variety of Control Voltages

Circuit Adapters



For addition of Electrical Protection and LED Power Indication to Existing DIN 43650 Installations

Features

- Installs between existing valve and DIN connector
- Wide choice of surge protection circuitry

Benefits

- Quick addition of LED and/or surge protection to existing installations
- Provides ability to closely match circuit with application, minimizing electrical noise occurrences, while protecting your solenoid coils

DIN 43650 Bases



Add the DIN 43650 Connection Interface to Your Devices for Quick-Disconnect Capabilities

Features

- Mounts directly onto coil or enclosure Easily integrate the DIN 43650
- Wide array of configurations available Choose the correct shape to fit

Benefits

- Easily integrate the DIN 43650 interface into your device
- Choose the correct shape to fit your devices

Electronic Plug-In Modules



Timers, Proportional Valve Control, Amplifier & Power Output Interfaces at the Valve Level

Features

- Modules plug right into 18mm Form A DIN interfaces
- Provides electronic device control at the valve level
- Amplifier module

Benefits

- Easy installation of specialized electronic controls to devices with DIN 43650 interfaces
- Control timers, power output modules and proportional solenoid valve devices
- Provides greater solenoid valve performance

mPm™ DIN 43650 Connectors and Devices

As part of a total solution from Woodhead Connectivity, all mPm connectors and devices offer:

Features	Benefits
18, 11, 10, 9.4 and 8mm Standard DIN 43650 Connector and Device Platforms	Connects to all DIN Standard Solenoid Pressure Switches
24V AC/DC, 115V AC/DC and 23oV AC/DC Ratings Available	Supports the Widest Variety of Control Voltages

DIN Field Attachable Units



Field Attachable Units Allow 'on the spot' Wiring of Your DIN 43650 Enabled Devices, Providing You a Quick-Disconnect Feature for Your Valves and other Devices.

Features

- Installs in the field
- LED, provides...
- Surge Protection...
- Rectifiers...

Benefits

- Flexibility to use any cable and ability to cut to any length on the spot
- Wide circuitry choices available
 Choose the most cost-effective circuit for vour application
 - Status Indication
 - Reduce effects of noise & spikes, protect coils
 - Drive DC coils w/AC circuits

DIN Molded Single-ended Cords



Molded DIN 43650 Provides a Robust Connector and Pre-wired Cable, Saving You Valuable Installation Time, While Eliminating Costly Troubleshooting Encountered with Field Attachable Units.

- Fully-integrated cable, DIN and head assembly
- Wide choice of circuitry, including LEDs, surge protection & rectifiers
- 100% computerized DIN testing
- Integrated white marking label

- No need to field wire, saving installation head assembly time and eliminating wiring errors
- Choose the most cost-effective solution for your application
- Quality performance assurance
- Easy circuit identification

DIN Molded Double-ended Corsets



Brad Harrison® and mPm™ Have Combined to Offer You Two Performance Leaders in One Solution. This Joint Endeavor Offers You Innovative Machine Connectivity Options.

Features

- Available with Micro-Change® & Mini-Change® Connectors
- Varistor circuit protection (VDR) 24V AC/DC to 23oV AC/DC

Benefits

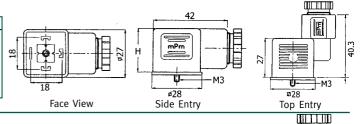
- Directly connect to Brad Harrison® Multi-port Interconnection System for "Plug & Play" of Outputs & Inputs
- Efficiently protects coils from induced high-voltage conditions

mPm™ DIN 43650 FIELD ATTACHABLE CONNECTORS

Dimensions (in mm)

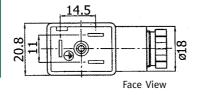
18mm DIN Form A

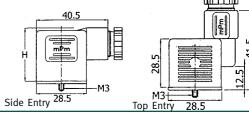
		Height					
C182	2P+G	27mm	Side	S182	2P+G	27mm	Side
C183	3P+G	27mm	Side	S532	2P+G	34mm	Side
C812	2P+G	34mm	Side	S113	3P+G	38mm	Side
C813	3P+G	34mm	Side	C402	2P+G	27mm	Top
				C403	3P+G	27mm	Top



11mm **Industry** Standard B

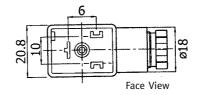
Series	Poles	Height	Entry
C122	2P+G	30mm	Side
C702	2P+G	35mm	Side
S022	2P+G	30mm	Side
S542	2P+G	30mm	Side
C412	2P+G	24mm	Top

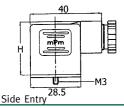




10mm DIN Form B

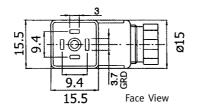
Series	Poles	Height
C622	2P+G	30mm
C822	2P+G	33mm
S622	2P+G	30mm

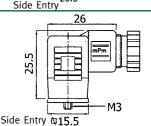




9.4mm Industry Standard B

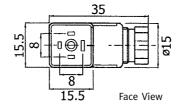
Series	Poles	Height
C192	2P+G	25.5mm
C193	3P+G	25.5mm
S192	3P+G	25.5mm

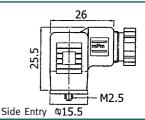




8mm DIN Form C

Series	Poles	Height
C052	2P+G	25.5mm
Co53	3P+G	25.5mm
S052	2P+G	25.5mm





mPm Connectors Available Circuitry Options

Technical Specifications

Mechanical:

Connector Material: Glass-Reinforced

Polyamide

Contact Material: Silver-plated brass

Contact Resistance: ≤ 4m Ohm

Cable Sizes:

PG07: .157-.236" (4-6mm) PG09: .236-.315" (6-8mm) PG11: .315-.394" (8-10mm) 1/2"NPT: for 1/2" conduit

Electrical:

Voltage Rating: Per circuit or

250VAC/300VDC for straight wired

Amperage: 10A

Environmental:

IEC IP65 **Protection: Operating Temp.:** -40° to +194°F

(-40° to +90°C)

VDE0110 **Insulation Class:**

Circuit	LD.

A1

C3



C₄

Schematic

Description



Bipolar LED for

Power Status

Indication

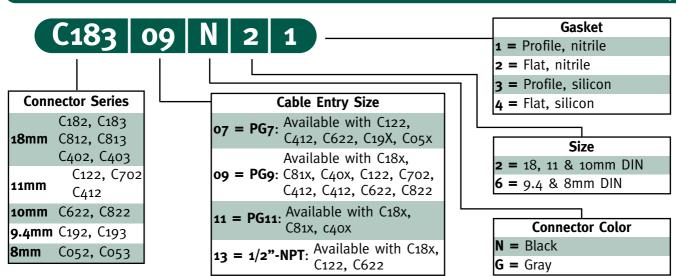
LED + blocking diode protects against inductive voltage spikes (DC circuits only)

Bipolar LED and varistor (VDR) to protect supply switch from inductive voltage spikes

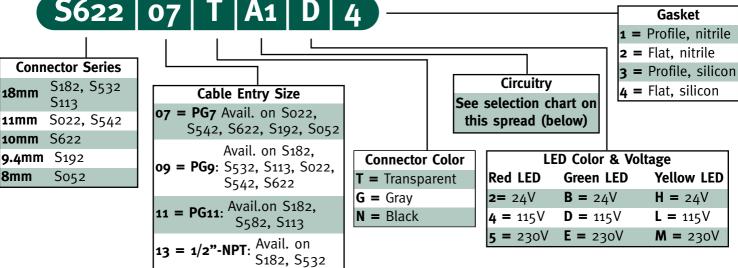
Available on series: S182*, E452, So22*, E462, S622*, E472, S192*, E392, S182*, E452, So22*, E462, S622*, E472, S192*, E392,

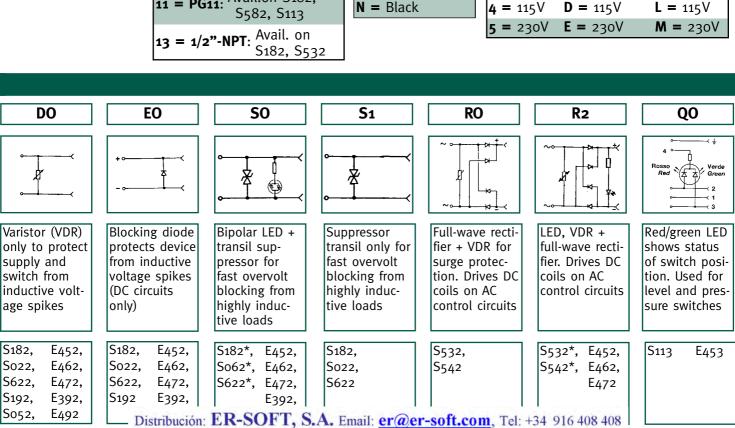
S182*, E452, So22*, E462, S622*, E472, S192*, E392, S052*, E492

Part Number Matrix for mPm™ DIN Field Attachable Connectors WITHOUT Circuitry



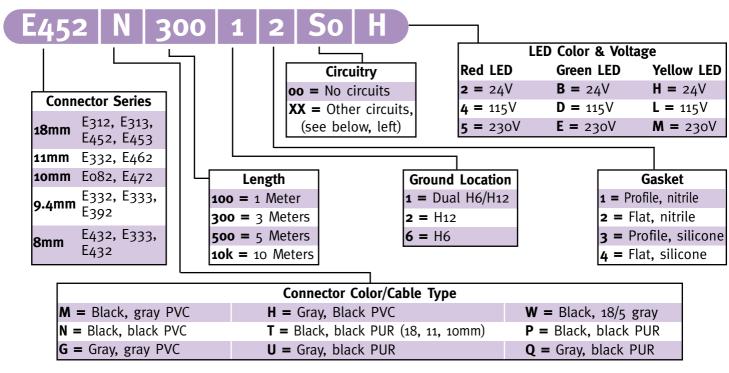
Part Number Matrix for Field Attachable Connectors WITH Circuitry

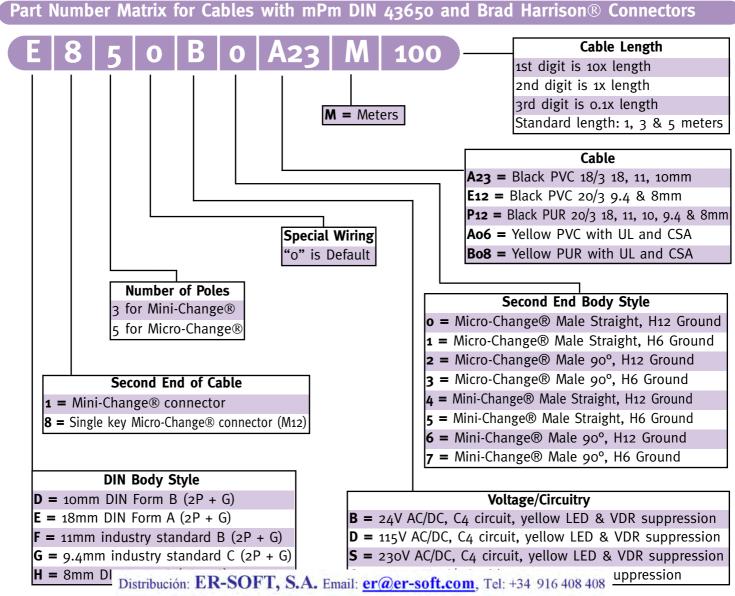




mPm™ DIN 43650 MOLDED CONNECTORS

Part Number Matrix for mPm DIN 43650 Cables

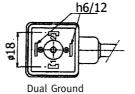


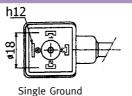


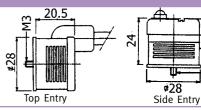
Dimensions (in mm)

18mm DIN Form A

Series	Poles	Entry
E452	2P+G	Side
E453	3P+G	Side
E312	2P+G	Top
E313	3P+G	Top

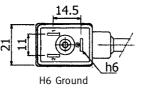


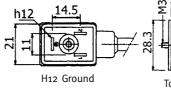


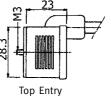


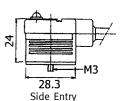
11mm **Industry** Standard E

Series	Poles	Entry
E322	2P+G	Top
E462	2P+G	Side



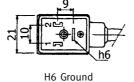




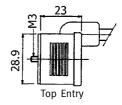


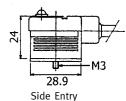
10mm DIN Form B

Series	Poles	Entry
E802	2P+G	Тор
E472	2P+G	Side



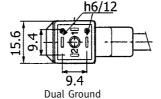
H₁₂ Ground

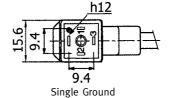


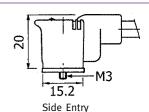


9.4mm **Industry** Standard

Series	Poles
E332	2P+G
E333	3P+G
E392	2P+G

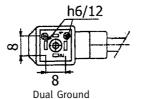


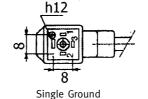


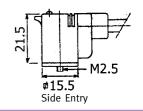


8mm DIN Form C

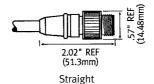
Series	Poles
E432	2P+G
E433	3P+G
E492	2P+G

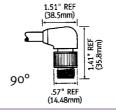






Micro-**Change**® Male Plug





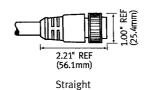
Face View Male

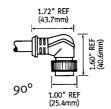


3 Blue

4 Brown 5 Grn/Yel

Mini-**Change**® Male Plug





Face View Male





Technical Specifications

Mechanical:

Connector Material:

DIN: Glass Reinforced Polypropylene

Mini/Micro-Change: PVC **Contact Material:**

DIN: Silver-plated Brass

Mini/Micro-Change: Gold-plated Brass

Strain Relief: 35lbs.

Electrical:

Voltage: Per Circuit or 250V AC/DC 5A w/#18 AWG Cable

3A w/#20 AWG Cable Cable Gauge: PUR: 20AWG (all)

> PVC: 18AWG (18, 11, 10mm); 20AWG (9.4, 8mm)

Environmental:

Protection: IP65

Temperature: -13° to +167°F

(-25° to +75°C)

Certifications: Spacing to VDE0110