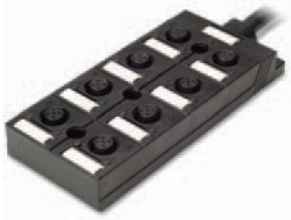


**Global Plus Connector Cables**



**Multi-Connector Blocks**



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- 54.1 Global Plus Connector Cables**
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**Unless otherwise noted, the products contained in this section should not be used for functional safety applications. These products were not designed or tested to IEC 60947-5-3 or recommended for functional safety.**



For Customer Service in the U.S. call 1-877-ETN CARE (386-2273),  
in Canada call 1-800-268-3578.  
For Application Assistance in the U.S. and Canada  
call 1-800-426-9184.

#### Product Selection Guide

##### Global Plus Connector Cables



###### Overview

Finish your sensor installation with high quality Connector Cables from Eaton's electrical sector. Our Global Plus line is designed to give you everything you want without paying extra for the features you don't want. It includes a wide variety of single- and double-connector cables in a variety of sizes (mini, micro, nano), lengths and jacket materials to fit any application

###### Sensing Types and Ranges

Nano (M8)  
 Micro (M12)  
 Mini  
 Double-ended, straight, right-angle, and field-installable connector styles

###### Product Features

Industry standard connector types  
 Industrial-duty polymer jackets consisting of PVC, PUR, or Irradiated PUR  
 Stranded copper conductors and polymer jackets provide a high resistance to bending motions  
 Right angle units for applications that have constricted space

###### Technical Data and Specifications

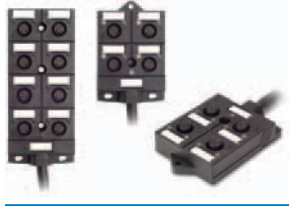
Operating voltage—  
 0–600 Vac/Vdc  
 Maximum load current—  
 0–13A  
 Enclosure ratings—  
 NEMA 6P, IP68

###### Approvals

UL  
 cUL  
 CSA



##### Multi-Connector Blocks



###### Overview

Junction Blocks from Eaton's electrical sector allow users to quickly connect multiple sensors through one source of power

###### Sensing Types and Ranges

4, 6, or 8 ports  
 Cable or connector models  
 Micro connector style

###### Product Features

LED status indicators for power and output status  
 Molded PUR cable models provide added protection from moisture and most cutting fluids  
 Pluggable terminal blocks provide easy and quick installation

###### Technical Data and Specifications

Operating voltage—  
 0–30 Vdc  
 Maximum load current—  
 4A per port  
 Enclosure ratings—  
 IP65

###### Approvals

cUL



Global Plus Connector Cables



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Global Plus Connector Cables

Product Description


Finish your sensor installation with high quality connector cables from Eaton’s electrical sector. Our Global Plus line is designed to give you everything you want without paying extra for the features you don’t want. It includes a wide variety of single- and double-connector cables. Custom lengths are available upon request from the factory.

Standards and Certifications

- UL Recognized (Mini-Style)
- CSA Certified (Mini- and Nano-Styles)
- cUL Recognized (Micro- and Nano-Styles)



Safety Note

 **Unless otherwise noted, the products contained in this document are not designed or intended for use in human safety applications.**

For the most current information on this product, visit our web site: [www.eaton.com](http://www.eaton.com)


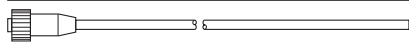

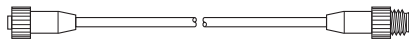
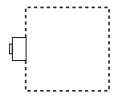
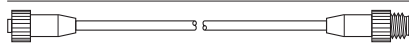
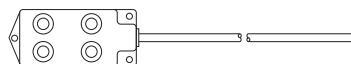
For Customer Service in the U.S. call 1-877-ETN CARE (386-2273), in Canada call 1-800-268-3578. For Application Assistance in the U.S. and Canada call 1-800-426-9184.

#### Product Selection Guide

##### What Type of Connector Cable Do You Need?

The majority of the sensors in this Product Guide are available with connectors for quick-disconnect installation.

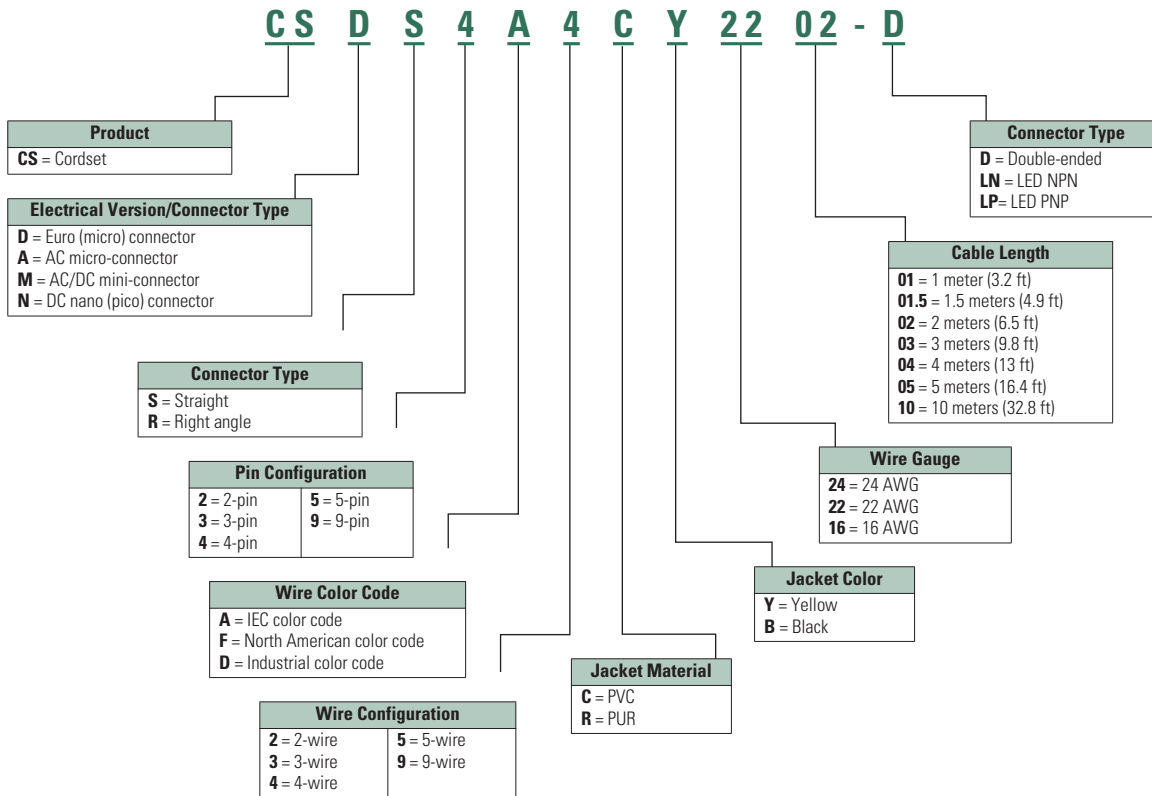
##### Global Plus Connector Cable Selection

Sensor	Connector Cable Type	Style	Interfaces with ...	Style
	<b>Single-Connector Cable</b> 	Micro (see <a href="#">Page 447</a> ) Mini (see <a href="#">Page 448</a> ) Nano (see <a href="#">Page 449</a> )	<b>Junction Box or Control Panel</b> For hard-wiring into a typical junction box or control panel.	
	<b>Double-Connector Cable</b> 	Micro (see <a href="#">Page 450</a> ) Mini (see <a href="#">Page 450</a> )	<b>Connectorized Junction Box or Control Panel</b> For connecting to a junction box or control panel that has a receptacle connector interface.	
	<b>Double-Connector Cable</b> 	Micro (see <a href="#">Page 450</a> )	<b>Multi-Connector Block with Cable</b> Allows up to eight sensors to be consolidated into one cable for wiring to your control system	

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#### Catalog Number Selection

##### Global Plus Connector Cables ①



**Note**

① This is a representative guide to the catalog numbering system. All possible combinations may not be available for ordering. Please verify the number with the following pages or call Application Support at (800) 426-9194 before ordering.

Product Selection

Single Connector Cables

Micro-Style Straight Female



Micro-Style Straight Female

Voltage Style	Number of Pins	Gauge	Length	Pin Configuration/Wire Colors (Face View Female Shown)	PVC Jacket Catalog Number	PUR Jacket Catalog Number
<b>Standard Cables</b>						
AC	3-pin, 3-wire	18 AWG	6.0 ft (2m)		CSAS3F3CY1802	—
			16.4 ft (5m)		CSAS3F3CY1805	—
			32.8 ft (10m)		CSAS3F3CY1810	—
		22 AWG	6.0 ft (2m)	CSAS3F3CY2202	CSAS3F3RY2202	
			16.4 ft (5m)	CSAS3F3CY2205	CSAS3F3RY2205	
			32.8 ft (10m)	CSAS3F3CY2210	CSAS3F3RY2210	
	4-pin, 4-wire	18 AWG	6.0 ft (2m)		CSAS4F4CY1802	—
			16.4 ft (5m)		CSAS4F4CY1805	—
			32.8 ft (10m)		CSAS4F4CY1810	—
		22 AWG	6.0 ft (2m)	CSAS4F4CY2202	CSAS4F4RY2202	
			16.4 ft (5m)	CSAS4F4CY2205	CSAS4F4RY2205	
			32.8 ft (10m)	CSAS4F4CY2210	CSAS4F4RY2210	
22 AWG	6.0 ft (2m)		CSAS4A4CY2202	—		
	16.4 ft (5m)		CSAS4A4CY2205	—		
	32.8 ft (10m)		CSAS4A4CY2210	—		
5-pin, 5-wire	22 AWG	6.0 ft (2m)		CSAS5A5CY2202	—	
		16.4 ft (5m)		CSAS5A5CY2205	—	
		32.8 ft (10m)		CSAS5A5CY2210	—	
DC	4-pin, 3-wire	22 AWG	6.0 ft (2m)		CSDS4A3CY2202	CSDS4A3RY2202
			16.4 ft (5m)		CSDS4A3CY2205	CSDS4A3RY2205
			32.8 ft (10m)		CSDS4A3CY2210	CSDS4A3RY2210
	4-pin, 4-wire	22 AWG	6.0 ft (2m)		CSDS4A4CY2202	CSDS4A4RY2202
			16.4 ft (5m)		CSDS4A4CY2205	CSDS4A4RY2205
			32.8 ft (10m)		CSDS4A4CY2210	CSDS4A4RY2210
			65.6 ft (20m)		CSDS4A4CY2220	—
	5-pin, 5-wire	22 AWG	6.0 ft (2m)		CSDS5A5CY2202	—
			16.4 ft (5m)		CSDS5A5CY2205	—
			32.8 ft (10m)		CSDS5A5CY2210	—
	8-pin, 8-wire	24 AWG	16.4 ft (5m)		CSDS8A8CB2405	—
			32.8 ft (10m)		CSDS8A8CB2410	—

#### Micro-Style Right Angle Female



#### Micro-Style Right Angle Female

Voltage Style	Number of Pins	Gauge	Length	Pin Configuration/Wire Colors (Face View Female Shown)	PVC Jacket Catalog Number	PUR Jacket Catalog Number
<b>Standard Cables</b>						
AC	3-pin, 3-wire	18 AWG	6.0 ft (2m)		CSAR3F3CY1802	—
			16.4 ft (5m)		CSAR3F3CY1805	—
			32.8 ft (10m)		CSAR3F3CY1810	—
		22 AWG	6.0 ft (2m)		CSAR3F3CY2202	CSAR3F3RY2202
			16.4 ft (5m)		CSAR3F3CY2205	CSAR3F3RY2205
			32.8 ft (10m)		CSAR3F3CY2210	CSAR3F3RY2210
	4-pin, 4-wire	18 AWG	6.0 ft (2m)		CSAR4F4CY1802	—
			16.4 ft (5m)		CSAR4F4CY1805	—
			32.8 ft (10m)		CSAR4F4CY1810	—
		22 AWG	6.0 ft (2m)		CSAR4F4CY2202	CSAR4F4RY2202
			16.4 ft (5m)		CSAR4F4CY2205	CSAR4F4RY2205
			32.8 ft (10m)		CSAR4F4CY2210	CSAR4F4RY2210
DC	4-pin, 3-wire	22 AWG	6.0 ft (2m)		CSDR4A3CY2202	CSDR4A3RY2202
			16.4 ft (5m)		CSDR4A3CY2205	CSDR4A3RY2205
			32.8 ft (10m)		CSDR4A3CY2210	CSDR4A3RY2210
	4-pin, 4-wire	22 AWG	6.0 ft (2m)		CSDR4A4CY2202	CSDR4A4RY2202
			16.4 ft (5m)		CSDR4A4CY2205	CSDR4A4RY2205
			32.8 ft (10m)		CSDR4A4CY2210	CSDR4A4RY2210
	5-pin, 5-wire	22 AWG	6.0 ft (2m)		CSDR5A5CY2202	—
			16.4 ft (5m)		CSDR5A5CY2205	—
			32.8 ft (10m)		CSDR5A5CY2210	—

#### Mini-Style Straight Female



#### Mini-Style Straight Female

Current Rating at 600V	Voltage Style	Number of Pins	Gauge	Length	Pin Configuration/Wire Colors (Face View Female Shown)	Catalog Number
<b>Standard Cables</b>						
13A	AC/DC	2-pin, 2-wire	16 AWG	6 ft (2m)		CSMS2D2CY1602
				12 ft (4m)		CSMS2D2CY1604
13A		3-pin, 3-wire	16 AWG	6 ft (2m)		CSMS3F3CY1602
				12 ft (4m)		CSMS3F3CY1604
10A		4-pin, 4-wire	16 AWG	6 ft (2m)		CSMS4F4CY1602
				12 ft (4m)		CSMS4F4CY1604

### Mini-Style Straight Female



### Mini-Style Straight Female, continued

Current Rating at 600V	Voltage Style	Number of Pins	Gauge	Length	Pin Configuration/Wire Colors (Face View Female Shown)	Catalog Number
<b>Standard Cables</b>						
10A	AC/DC	4-pin, 4-wire	16 AWG	6 ft (2m)		CSMS4A4CY1602
				13.12 ft (4m)		CSMS4A4CY1604
				19.69 ft (6m)		CSMS4A4CY1606
8A		5-pin, 5-wire	16 AWG	6 ft (2m)		CSMS5D5CY1602
				12 ft (4m)		CSMS5D5CY1604
8A		5-pin, 5-wire	16 AWG	6 ft (2m)		CSMS5A5CY1602
				13.12 ft (4m)		CSMS5A5CY1604
				19.69 ft (6m)		CSMS5A5CY1606
7A		9-pin, 9-wire	16 AWG	6 ft (2m)		CSMS9D9CY1602

### Nano-Style Straight Female



### Nano-Style Straight Female

Voltage Style	Number of Pins	Gauge	Length	Pin Configuration/Wire Colors (Face View Female Shown)	PVC Jacket Catalog Number	PUR Jacket Catalog Number
<b>Standard Cables</b>						
—	3-pin, 3-wire	24 AWG	6.0 ft (2m)		CSNS3A3CY2402	CSNS3A3RY2402
			16.4 ft (5m)		CSNS3A3CY2405	CSNS3A3RY2405
			32.8 ft (10m)		CSNS3A3CY2410	CSNS3A3RY2410
DC	4-pin, 4-wire	24 AWG	6.5 ft. (2 m)		CSNS4A4CY2402	—
			16.4 ft. (5 m)		CSNS4A4CY2405	—
			32.8 ft. (10 m)		CSNS4A4CY2410	—

### Nano-Style Right Angle Female



### Nano-Style Right Angle Female

Voltage Style	Number of Pins	Gauge	Length	Pin Configuration/Wire Colors (Face View Female Shown)	PVC Jacket Catalog Number	PUR Jacket Catalog Number
<b>Standard Cables</b>						
—	3-pin, 3-wire	24 AWG	6.0 ft (2m)		CSNR3A3CY2402	CSNR3A3RY2402
			16.4 ft (5m)		CSNR3A3CY2405	CSNR3A3RY2405
			32.8 ft (10m)		CSNR3A3CY2410	CSNR3A3RY2410

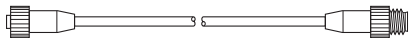
#### Double Connector Cables

##### Micro-Style Straight Female/Male



##### Micro-Style Straight Female/Male

Voltage Style	Number of Pins	Gauge	Length	Pin Configuration/Wire Colors (Face View Female Shown)	Catalog Number
DC	4-pin,	22 AWG	3.0 ft (1m)		CSDS4A4CY2201-D
			5.0 ft (1.5m)		CSDS4A4CY2201.5-D
			6.0 ft (2m)		CSDS4A4CY2202-D
			10.0 ft (3m)		CSDS4A4CY2203-D
			16.4 ft (5m)		CSDS4A4CY2205-D
DC	5-pin,	22 AWG	3.0 ft (1m)		CSDS5A5CY2201-D
			10.0 ft (3m)		CSDS5A5CY2203-D
			16.4 ft (5m)		CSDS5A5CY2205-D



##### Micro-Style Straight Female/Right Angle Male

##### Micro-Style Straight Female/Right Angle Male

Voltage Style	Number of Pins	Gauge	Length	Pin Configuration/Wire Colors (Face View Female Shown)	Catalog Number
DC	4-pin,	22 AWG	3.0 ft (1m)		CSDR4A4CY2201-D
			5.0 ft (1.5m)		CSDR4A4CY2201.5-D
			6.0 ft (2m)		CSDR4A4CY2202-D
			10.0 ft (3m)		CSDR4A4CY2203-D
			16.4 ft (5m)		CSDR4A4CY2205-D

##### Mini-Style Straight Female/Male



##### Mini-Style Straight Female/Male

Voltage Style	Number of Pins	Gauge	Length	Pin Configuration/Wire Colors (Face View Female Shown)	Catalog Number
AC/DC	3-pin,	16 AWG	6.0 ft (2m)		CSMS3F3CY1602-DP
			13.1 ft (4m)		CSMS3F3CY1604-DP
			23.0 ft (7m)		CSMS3F3CY1607-DP



**Receptacles—Micro and Mini**

**Micro-Style Straight Male**



**Micro and Mini**

Voltage Style	Number of Pins	Gauge	Length	Mounting Hole Size	Pin Configuration	Catalog Number
<b>Standard Cables—Micro</b>						
DC	4-pin, 4-wire	22 AWG	1.0 ft (0.3m)	1/2 in NPT		<b>CSDS4A4CMR22.3</b>
	5-pin, 5-wire	22 AWG	1.6 ft (0.5m)	PG9		<b>CSDS5A5CMR.5</b>

**Mini-Style Straight Male**



**Standard Cables—Mini**

AC/DC	4-pin, 4-wire	22 AWG	1.6 ft (0.5m)	1/2 in NPT		<b>CSMS4A4CMR16.5</b>
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**Accessories**

**Global Plus Accessories**

**Field Wireable, Plastic**



Description	Catalog Number
Micro female style, straight, four-position	<b>CSDS4</b>
Micro female style, right angle, four-position	<b>CSDR4</b>
Micro male style, straight, four-position	<b>CSDSM4</b>
Micro male style, right angle, four-position	<b>CSDRM4</b>
Nano female style, straight, three-position	<b>CSNS3</b>
Nano male style, straight, three-position	<b>CSNSM3</b>
Nano male style, straight, four-position	<b>CSNSM4</b>
Nano female style, straight, four-position	<b>CSNS4</b>
Nano female style, right angle, four-position	<b>CSNR4</b>
Nano male style, right angle, four-position	<b>CSNRM4</b>
Micro female style, y-splitter, three-position	<b>CSDY3</b> ①
Micro female style, y-splitter, five-position	<b>CSDY5</b> ①

**Closure Cap**



Description	Catalog Number
<b>Closure Cap</b>	
Seals off unused connector ports on multi-connector blocks, micro female type	<b>CBCAP</b>
Seals off unused parts on micro, male type	<b>CBMCAP</b>

**Bulk Cable, Micro-Style**



<b>Bulk Cable, Micro-Style</b>	
Four-conductor, 22 AWG, yellow jacket (blue, brown, white, black), compatible with micro-style field wireable connectors shown above	<b>CS4ACY22XX</b> ②

**Bulk Cable, Nano Style**



<b>Bulk Cable, Nano-Style</b>	
Three-conductor, 24 AWG, yellow jacket (brown, blue, black), compatible with field wireable connectors shown above	<b>CS3ACY24XX</b> ①

**Notes**

- ① For wiring diagrams explaining the difference between three- and five-position models, see Wiring Diagrams on **Page 452**.
- ② Quantity ordered indicates length (i.e., quantity of 5 equals 5 ft).

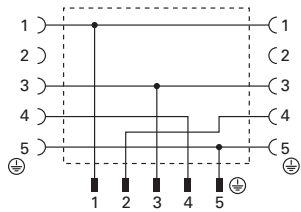
#### Technical Data and Specifications

##### Global Plus Connector Cables

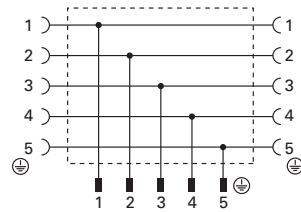
Description	Micro-Style Specification	Mini-Style Specification	Nano-Style Specification
Jacket material	PVC/PUR/Irradiated PUR ①	PVC	PVC/PUR ①
Contact material	Gold-plated copper alloy	Gold-plated brass	Gold-plated copper alloy
Coupling nut material	Nickel-plated die-cast zinc	Nickel-plated die-cast zinc	Nickel-plated die-cast zinc
O-ring	Nitrile rubber	None	Nitrile rubber
Cable	PVC/PUR/Irradiated PUR, insulation and jacket, stranded copper conductors	PVC/PUR/Irradiated PUR, insulation and jacket, stranded copper conductors	PVC/PUR/Irradiated PUR, insulation and jacket, stranded copper conductors
Cable strain relief	35 lbs minimum	35 lbs minimum	35 lbs minimum
Voltage rating	320V (24 Vdc for LED plugs) (30 Vdc for 8-pin, versions)	600V	100 Vdc
Current rating	4A	See model selection chart	4A
Contact resistance	5 mohm maximum	5 mohm maximum	5 mohm maximum
Isolation resistance	1000 mohm minimum	1000 mohm minimum	1000 mohm minimum
Protection	IP67	NEMA 6P, IP68	IP67
Temperature range	-13° to 176°F (-25° to 80°C)	-4° to 221°F (-20° to 105°C)	-4° to 221°F (-20° to 105°C)
Cable diameter	See Dimensions on <b>Page 453</b> .	See Dimensions on <b>Page 453</b> .	See Dimensions on <b>Page 453</b> .
Bend radius	Minimum recommended bend radius is 12X cable diameter	Minimum recommended bend radius is 12X cable diameter	Minimum recommended bend radius is 12X cable diameter

#### Wiring Diagrams

**CSDY3**



**CSDY5**



**Note**

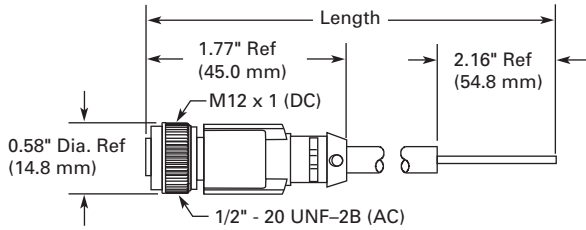
① Jacket material dependent upon model selection.

### Dimensions

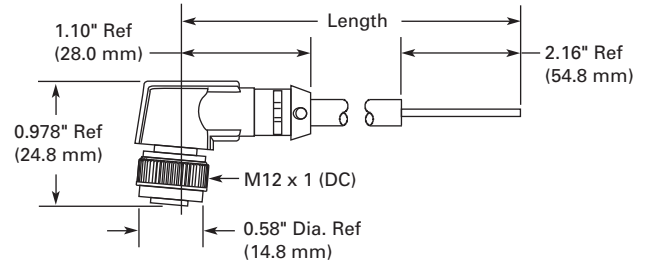
Approximate Dimensions in Inches (mm)

#### Single Connector Cable Dimensions

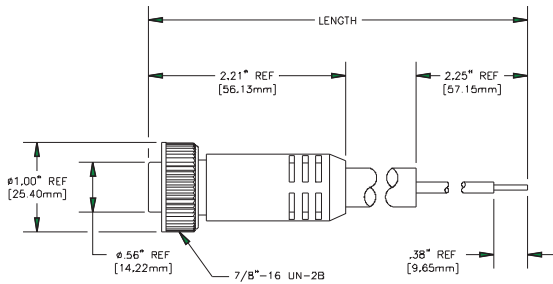
##### Micro-Style Single Connector Cables, Straight Female



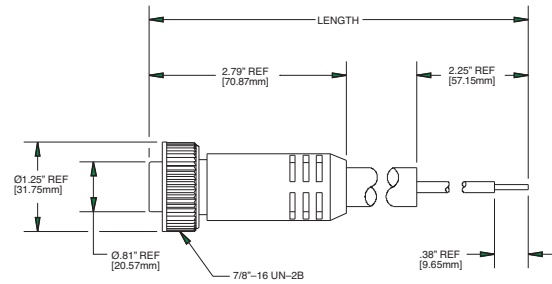
##### Micro-Style Single Connector Cables, Right Angle Female



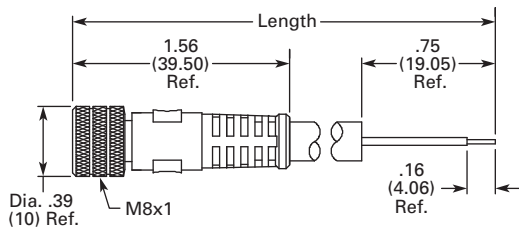
##### Mini-Style Single Connector Cables, 2-, 3-, 4- and 5-pin, Versions



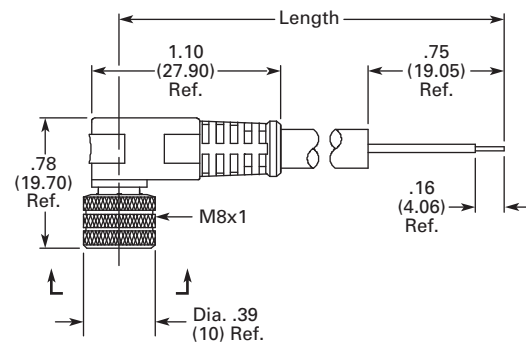
##### Mini-Style Single Connector Cables, 9-pin, Version



##### Nano-Style Single Connector Cables, Straight Female



##### Nano-Style Single Connector Cables, Right Angle Female (Standard and LED)



# 54.1

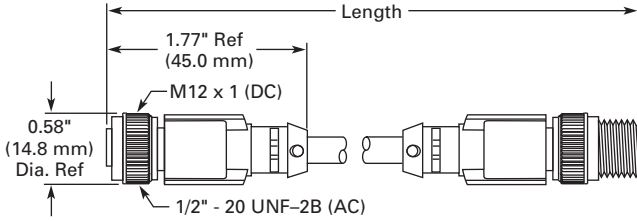
## Sensor Connectivity

### Global Plus Connector Cables

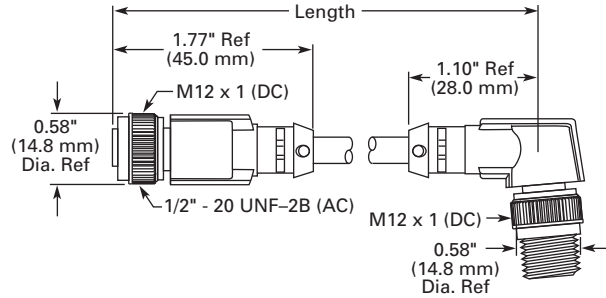
Approximate Dimensions in Inches (mm)

#### Double Connector Cable Dimensions

##### Micro-Style Double Connector Cables, Straight Female/Male



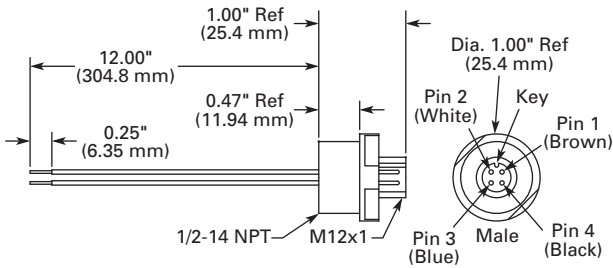
##### Micro-Style Double Connector Cables, Straight Female/Right Angle Male



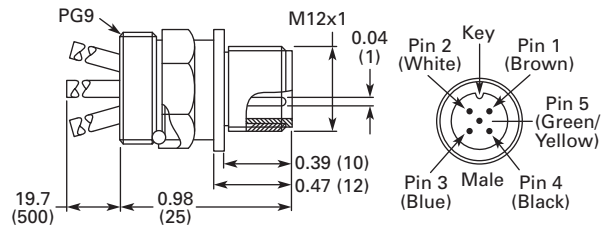
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#### Receptacle Dimensions

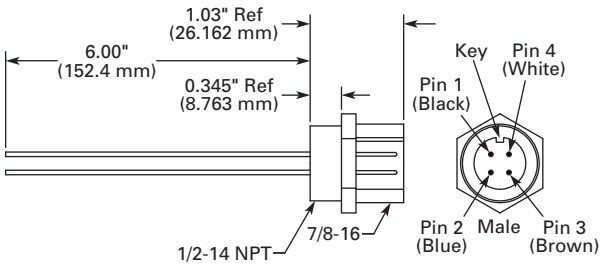
##### Micro-Style Receptacles, Straight Male (1/2 in NPT Mounting)



##### Micro-Style Receptacles, Straight Male (PG9 Mounting)



##### Mini-Style Receptacles, Straight Male



## Multi-Connector Blocks



## Multi-Connector Blocks

## Product Description

The Multi-Connector Block from Eaton's electrical sector is an easy way to quickly connect sensors to a control system. Using a variety of double-ended, industry-standard M12 micro-connector cables, a system can be wired up in minutes, therefore saving installation time and money.

For further convenience and installation troubleshooting, LEDs provide both power and output status on the block.

Global Plus Multi-Connector Blocks were designed with the most heavy-duty applications in mind—such as automotive manufacturing, metalworking and machinery OEMs. Put Eaton's Global Plus Multi-Connector Blocks to the test for your next machine design.

For the most current information on this product, visit our web site: [www.eaton.com](http://www.eaton.com)

## Application Description

## Typical Applications

- Automotive manufacturing
- Metalworking
- Many types of Machinery OEMs
- Power Control and Panel Shops

## Contents

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## Features

- Model options with four, six or eight sensor ports in one block
- Block capacity can be doubled with Micro Splitter Accessory (CSDY5)
- Available with a molded cable or spring-cage main body exit
- Capacity of up to 4 amps per port and 12 amps per block
- Robust design to resist vibration and moisture penetration
- Ideal for extreme temperature environments from -13 to 167°F (-25 to 75°C)

## Standards and Certifications

- UL Recognized
- CSA Certified



## Safety Note



**Unless otherwise noted, the products contained in this document are not designed or intended for use in human safety applications.**

For Customer Service in the U.S. call 1-877-ETN CARE (386-2273), in Canada call 1-800-268-3578.

For Application Assistance in the U.S. and Canada call 1-800-426-9184.

#### Product Selection

##### Multi-Connector Block

###### Micro-Style Molded Cable



###### Micro-Style Molded Cable

Voltage Style	Number of Ports	Connection	Pin Configuration/Wire Colors	Catalog Number
DC PNP	4-port	5m cable	See Wiring Diagrams on Pages 457 and 458	<b>CBDR4P05</b>
		10m cable		<b>CBDR4P10</b>
	6-port	5m cable		<b>CBDR6P05</b>
		10m cable		<b>CBDR6P10</b>
	8-port	5m cable		<b>CBDR8P05</b>
		10m cable		<b>CBDR8P10</b>

###### Micro-Style Spring Cage



###### Micro-Style Spring Cage

Voltage Style	Number of Ports	Connection	Pin Configuration/Wire Colors	Catalog Number
DC PNP	4-port	Connector	See Wiring Diagrams on Pages 457 and 458	<b>CBDR4PSC</b>
DC NPN				<b>CBDR4NSC</b>
DC PNP	6-port			<b>CBDR6PSC</b>
DC NPN		<b>CBDR6NSC</b>		
DC PNP	8-port			<b>CBDR8PSC</b>
DC NPN		<b>CBDR8NSC</b>		

#### Accessories

###### Closure Cap



###### Closure Cap

Description	Catalog Number
Seals off unused connector ports on multi-connector blocks, micro female type	<b>CBCAP</b>

### Technical Data and Specifications

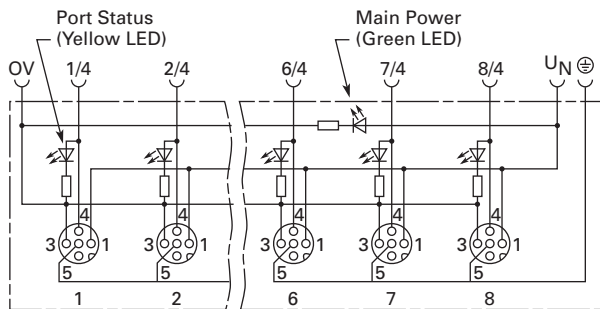
#### Multi-Connector Blocks

Description	Specification
<b>General</b>	
Nominal voltage (Vdc)	24
Maximum operating voltage (Vdc)	30
Current capacity per port (A)	4
Residual current (A)	12
Operating current of each LED (mA)	≤ 5
Protection type (IEC 60 529 / EN 60 529 / DIN VDE 0470-1)	IP65
Ambient temperature	-13 to 167°F (-25 to 75°C)
Jacket material	Nylon with brass receptacles
Contact material	Gold-plated copper alloy
O-ring	Nitrile rubber
Voltage rating	10–30 Vdc
Current rating	4A per port; 12A max. per unit
Contact resistance	5 mohm max.
Isolation resistance	1000 mohm min.
Protection	NEMA 6P, IP68
Temperature range	-13 to 194°F (-25 to 90°C)
<b>LED Status Indication</b>	
Supply voltage	Green
Status display of I/O	Yellow

### Wiring Diagrams

#### Micro-Style Connector Blocks

##### PNP Block



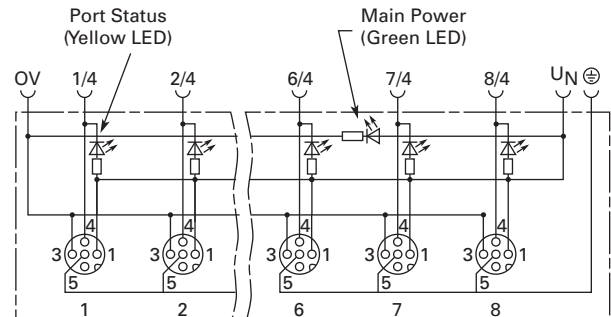
#### Master Cable—Spring Cage Connection

Description	Specification
Signal line, stranded in mm <sup>2</sup> (AWG)	0.14–1 (26–18)
Voltage supply, stranded in mm <sup>2</sup> (AWG)	0.2–1.5 (24–16)
Cable diameter in mm [in]	6.5–9.5 [0.255–0.374]
Stripped length of signal line in mm [in]	10 [0.395]

#### Master Cable—Pre-Wired Cable Connection

Description	Specification
Signal line, stranded in mm <sup>2</sup> (AWG)	0.34 (22)
Voltage supply, stranded in mm <sup>2</sup> (AWG)	3 x 1.0 (17)
Cable diameter in mm [in]	
4 and 6 port	8.7 [0.3425]
8 Port	9.2 [0.3622]
Material	PUR
Cable strain relief	30 lbs. min.

##### NPN Block



# 54.2

## Sensor Connectivity

### Multi-Connector Blocks

#### Wiring Diagram for Molded Cable Blocks

Micro DC Port/pin,	4-Port Wire Color	6-Port Wire Color	8-Port Wire Color
1/4	WH	WH	WH
2/4	GN	GN	GN
3/4	YE	YE	YE
4/4	GY	GY	GY
5/4	—	PK	PK
6/4	—	RD	RD
7/4	—	—	BK
8/4	—	—	VT
1-8/1; U <sub>N</sub> (+V)	BN	BN	BN
1-8/3; 0V (-)	BU	BU	BU
1-8/5; PE (GND)	GN/YE	GN/YE	GN/YE

#### Wiring Diagram for Spring Cage Blocks

Micro DC Port/pin,	4-Port Terminal	6-Port Terminal	8-Port Terminal
1/4	1/4	1/4	1/4
2/4	2/4	2/4	2/4
3/4	3/4	3/4	3/4
4/4	4/4	4/4	4/4
5/4	—	5/4	5/4
6/4	—	6/4	6/4
7/4	—	—	7/4
8/4	—	—	8/4
1-8/1; U <sub>N</sub> (+V)	U <sub>N</sub>	U <sub>N</sub>	U <sub>N</sub>
1-8/5; PE (GND)	PE	PE	PE

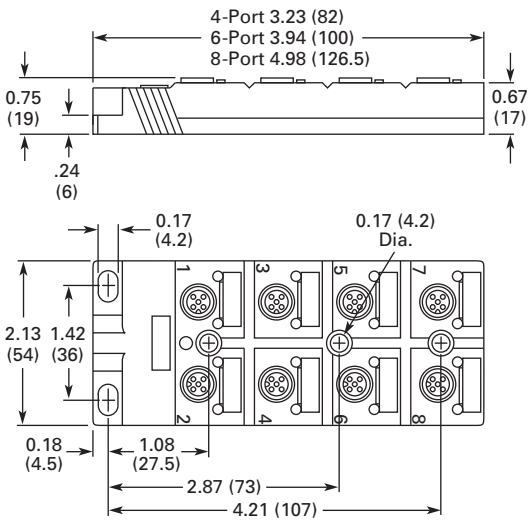
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### Dimensions

Approximate Dimensions in Inches (mm)

#### Micro-Style Connector Blocks

##### Top Female Cable



##### Top Female Connector

