Global Plus Connector Cables

Multi-Connector Blocks

10.0 Introduction

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10.1 Global Plus Connector Cables

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10.2 Multi-Connector Blocks

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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.

Learn Online

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

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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/dc

Maximum load current—
0–13A

Enclosure ratings—
NEMA 6P, IP68

Approvals

UL®
cUL®
CSA®

Multi-Connector Blocks

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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)

DANGER

THIS SENSOR IS NOT A SAFETY DEVICE AND IS NOT INTENDED TO BE USED AS A SAFETY DEVICE. This sensor is designed only to detect and read certain data in an electronic manner and perform no use apart from that, specifically no safety-related use. This sensor product does not include self-checking redundant circuitry, and the failure of this sensor product could cause either an energized or de-energized output condition, which could result in death, serious bodily injury, or property damage.

For the most current information on this product, visit our Web site: www.eaton.com

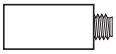
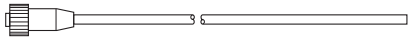
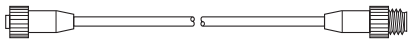
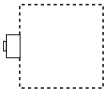
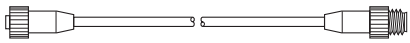
For Customer Service in the U.S. call 1-877-ETN CARE (386-2273), in Canada call 1-800-268-3578.
For Application Assistance in the U.S. and Canada call 1-800-426-9184.

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
	**Single-Connector Cable**		**Junction Box or Control Panel**	
		Micro (see **Page V8-T10-5**)	For hard-wiring into a typical junction box or control panel.	
		Mini (see **Page V8-T10-6**)		
		Nano (see **Page V8-T10-7**)		
	Double-Connector Cable		**Connectorized Junction Box or Control Panel**	
		Micro (see **Page V8-T10-8**)	For connecting to a junction box or control panel that has a receptacle connector interface.	
		Mini (see **Page V8-T10-8**)		
	Double-Connector Cable		**Multi-Connector Block with Cable**	
		Micro (see **Page V8-T10-8**)	Allows up to eight sensors to be consolidated into one cable for wiring to your control system	Micro (see **Page V8-T10-8**)

Catalog Number Selection

Global Plus Connector Cables ①

CS D S 4 A 4 C Y 22 02 - D

Product
CS = Cordset

Electrical Version/Connector Type
D = Euro (micro) connector
A = AC micro-connector
M = AC/DC mini-connector
N = DC nano (pico) connector

Connector Type
S = Straight
R = Right angle

Pin Configuration
2 = 2-pin
3 = 3-pin
4 = 4-pin
5 = 5-pin
9 = 9-pin

Wire Color Code
A = IEC color code
F = North American color code
D = Industrial color code

Wire Configuration
2 = 2-wire
3 = 3-wire
4 = 4-wire
5 = 5-wire
9 = 9-wire

Jacket Material
C = PVC
R = PUR

Jacket Color
Y = Yellow
B = Black

Wire Gauge
24 = 24 AWG
22 = 22 AWG
16 = 16 AWG

Cable Length
01 = 1 meter (3.2 ft)
01.5 = 1.5 meters (4.9 ft)
02 = 2 meters (6.5 ft)
03 = 3 meters (9.8 ft)
04 = 4 meters (13 ft)
05 = 5 meters (16.4 ft)
10 = 10 meters (32.8 ft)

Connector Type
D = Double-ended
LN = LED NPN
LP= LED PNP

Note

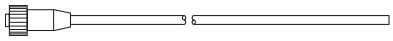
① This is a representative guide to the catalog numbering system. All possible combinations may not be available for ordering. Please verify the number with the following pages or call Application Support at (800) 426-9194 before ordering.

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
Standard Cables						
AC	3-pin, 3-wire	18 AWG	6.0 ft (2m)	1-Green 2-Red/Black 3-Red/White	**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)	1-Red/Black 2-Red/White 3-Red 4-Green	**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)	1-Brown 2-Blue 3-Black 4-White	**CSAS4A4CY2202**	—
			16.4 ft (5m)		**CSAS4A4CY2205**	—
			32.8 ft (10m)		**CSAS4A4CY2210**	—
	5-pin, 5-wire	22 AWG	6.0 ft (2m)	1-Brown 2-Blue 3-Gray 4-Black 5-White	**CSAS5A5CY2202**	—
			16.4 ft (5m)		**CSAS5A5CY2205**	—
			32.8 ft (10m)		**CSAS5A5CY2210**	—
DC	4-pin, 3-wire	22 AWG	6.0 ft (2m)	1-Brown 2-No Wire 3-Blue 4-Black	**CSDS4A3CY2202**	**CSDS4A3RY2202**
			16.4 ft (5m)		**CSDS4A3CY2205**	**CSDS4A3RY2205**
			32.8 ft (10m)		**CSDS4A3CY2210**	**CSDS4A3RY2210**
	4-pin, 4-wire	22 AWG	6.0 ft (2m)	1-Brown 2-White 3-Blue 4-Black	**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)	1-Brown 2-White 3-Blue 4-Black 5-Green/Yellow	**CSDS5A5CY2202**	—
			16.4 ft (5m)		**CSDS5A5CY2205**	—
			32.8 ft (10m)		**CSDS5A5CY2210**	—
	8-pin, 8-wire	24 AWG	16.4 ft (5m)	1-White 5-Gray 2-Brown 6-Pink 3-Green 7-Blue 4-Yellow 8-Red	**CSDS8A8CB2405**	—
			32.8 ft (10m)		**CSDS8A8CB2410**	—

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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
Standard Cables						
AC	3-pin, 3-wire	18 AWG	6.0 ft (2m)	② ③ ① 1-Green 2-Red/Black 3-Red/White	**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)	② ① ③ ④ 1-Red/Black 2-Red/White 3-Red 4-Green	**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)	① ② ④ ③ 1-Brown 2-No Wire 3-Blue 4-Black	**CSDR4A3CY2202**	**CSDR4A3RY2202**
			16.4 ft (5m)		**CSDR4A3CY2205**	**CSDR4A3RY2205**
			32.8 ft (10m)		**CSDR4A3CY2210**	**CSDR4A3RY2210**
	4-pin, 4-wire	22 AWG	6.0 ft (2m)	① ② ④ ③ 1-Brown 2-White 3-Blue 4-Black	**CSDR4A4CY2202**	**CSDR4A4RY2202**
			16.4 ft (5m)		**CSDR4A4CY2205**	**CSDR4A4RY2205**
			32.8 ft (10m)		**CSDR4A4CY2210**	**CSDR4A4RY2210**
	5-pin, 5-wire	22 AWG	6.0 ft (2m)	① ② ⑤ ④ ③ 1-Brown 2-White 3-Blue 4-Black 5-Green/Yellow	**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
Standard Cables						
13A	AC/DC	2-pin, 2-wire	16 AWG	6 ft (2m)	① ② 1-White 2-Black	**CSMS2D2CY1602**
				12 ft (4m)		**CSMS2D2CY1604**
13A		3-pin, 3-wire	16 AWG	6 ft (2m)	① ③ ② 1-Green 2-Black 3-White	**CSMS3F3CY1602**
				12 ft (4m)		**CSMS3F3CY1604**
10A		4-pin, 4-wire	16 AWG	6 ft (2m)	④ ① ③ ② 1-Black 2-White 3-Red 4-Green	**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
Standard Cables						
10A	AC/DC	4-pin, 4-wire	16 AWG	6 ft (2m)	1-Black 2-Blue 3-Brown 4-White	**CSMS4A4CY1602**
				13.12 ft (4m)		**CSMS4A4CY1604**
				19.69 ft (6m)		**CSMS4A4CY1606**
8A		5-pin, 5-wire	16 AWG	6 ft (2m)	1-White 2-Red 3-Green 4-Orange 5-Black	**CSMS5D5CY1602**
				12 ft (4m)		**CSMS5D5CY1604**
8A		5-pin, 5-wire	16 AWG	6 ft (2m)	1-Black 2-Blue 3-Orange 4-Brown 5-White	**CSMS5A5CY1602**
				13.12 ft (4m)		**CSMS5A5CY1604**
				19.69 ft (6m)		**CSMS5A5CY1606**
7A		9-pin, 9-wire	16 AWG	6 ft (2m)	1-Orange 2-Blue 3-Red/Black 4-Green/Black 5-White 6-Red 7-Green 8-White/Black 9-Black	**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
Standard Cables						
—	3-pin, 3-wire	24 AWG	6.0 ft (2m)	1-Brown 3-Blue 4-Black	**CSNS3A3CY2402**	**CSNS3A3RY2402**
			16.4 ft (5m)		**CSNS3A3CY2405**	**CSNS3A3RY2405**
			32.8 ft (10m)		**CSNS3A3CY2410**	**CSNS3A3RY2410**
DC	4-pin, 4-wire	24 AWG	6.5 ft (2m)	1-Brown 2-White 3-Blue 4-Black	**CSNS4A4CY2402**	—
			16.4 ft (5m)		**CSNS4A4CY2405**	—
			32.8 ft (10m)		**CSNS4A4CY2410**	—

Nano-Style Right Angle Female

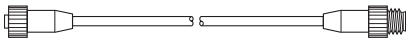
Nano-Style Right Angle Female

Voltage Style	Number of Pins	Gauge	Length	Pin Configuration/Wire Colors (Face View Female Shown)	PVC Jacket Catalog Number	PUR Jacket Catalog Number
Standard Cables						
—	3-pin, 3-wire	24 AWG	6.0 ft (2m)	1-Brown 3-Blue 4-Black	**CSNR3A3CY2402**	**CSNR3A3RY2402**
			16.4 ft (5m)		**CSNR3A3CY2405**	**CSNR3A3RY2405**
			32.8 ft (10m)		**CSNR3A3CY2410**	**CSNR3A3RY2410**

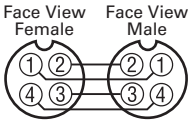
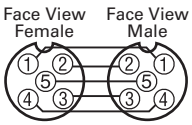
Double Connector Cables

Micro-Style Straight Female/Male

Micro-Style Straight Female/Male



Standard Cables

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**

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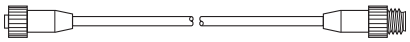
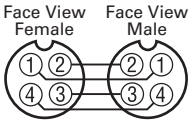
Micro-Style Straight Female/ Right Angle Male

Micro-Style Straight Female/Right Angle Male

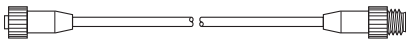


Standard Cables

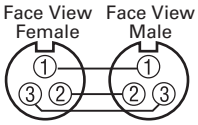
Voltage Style	Number of Pins	Gauge	Length	Pin Configuration/Wire Colors (Face View Female Shown)	Catalog Number
DC	4-pin	22 AWG	3.0 ft (1m)		**CSDR4A4CY2201-D**
			5.0 ft (1.5m)		**CSDR4A4CY2201.5-D**
			6.0 ft (2m)		**CSDR4A4CY2202-D**
			10.0 ft (3m)		**CSDR4A4CY2203-D**
			16.4 ft (5m)		**CSDR4A4CY2205-D**

Mini-Style Straight Female/Male

Mini-Style Straight Female/Male



Standard Cables

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

Mini-Style Straight Male

Micro and Mini

Voltage Style	Number of Pins	Gauge	Length	Mounting Hole Size	Pin Configuration	Catalog Number
Standard Cables—Micro						
DC	4-pin, 4-wire	22 AWG	1.0 ft (0.3m)	1/2 in NPT	1-Brown 2-White 3-Blue 4-Black	**CSDS4A4CMR22.3**
	5-pin, 5-wire	22 AWG	1.6 ft (0.5m)	PG9	1-Brown 2-White 3-Blue 4-Black 5-Gray	**CSDS5A5CMR.5**
Standard Cables—Mini						
AC/DC	4-pin, 4-wire	22 AWG	1.6 ft (0.5m)	1/2 in NPT	1-Brown 2-White 3-Blue 4-Black	**CSMS4A4CMR16.5**

Accessories

Field Wireable, Plastic

Closure Cap

Bulk Cable, Micro-Style

Bulk Cable, Nano Style

Global Plus Accessories

Description	Catalog Number
Micro female style, straight, four-position	**CSDS4**
Micro female style, right angle, four-position	**CSDR4**
Micro male style, straight, four-position	**CSDSM4**
Micro male style, right angle, four-position	**CSDRM4**
Nano female style, straight, three-position	**CSNS3**
Nano male style, straight, three-position	**CSNSM3**
Nano male style, straight, four-position	**CSNSM4**
Nano female style, straight, four-position	**CSNS4**
Nano female style, right angle, four-position	**CSNR4**
Nano male style, right angle, four-position	**CSNRM4**
Micro female style, y-splitter, three-position	**CSDY3** ①
Micro female style, y-splitter, five-position	**CSDY5** ①
Closure Cap	
Seals off unused connector ports on multi-connector blocks, micro female type	**CBCAP**
Seals off unused parts on micro, male type	**CBMCAP**
Bulk Cable, Micro-Style	
Four-conductor, 22 AWG, yellow jacket (blue, brown, white, black), compatible with micro-style field wireable connectors shown above	**CS4ACY22XX** ②
Bulk Cable, Nano-Style	
Three-conductor, 24 AWG, yellow jacket (brown, blue, black), compatible with field wireable connectors shown above	**CS3ACY24XX** ①

Notes

① For wiring diagrams explaining the difference between three- and five-position models, see Wiring Diagrams on **Page V8-T10-10**.

② Quantity ordered indicates length (for example, 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	5M ohms maximum	5M ohms maximum	5M ohms maximum
Isolation resistance	1000M ohms minimum	1000M ohms minimum	1000M ohms 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 **Page V8-T10-11**.	See Dimensions on **Page V8-T10-11**.	See Dimensions on **Page V8-T10-11**.
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

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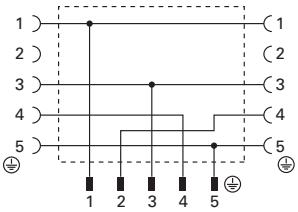
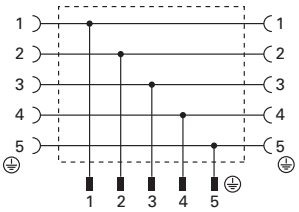
Wiring Diagrams

CSDY3



CSDY5



Note

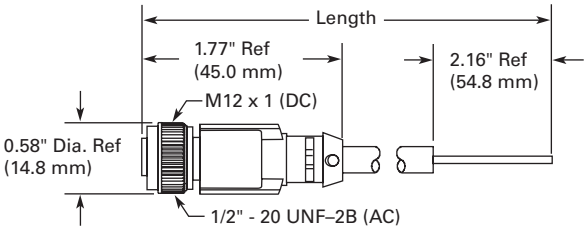
① Jacket material dependent upon model selection.

Dimensions

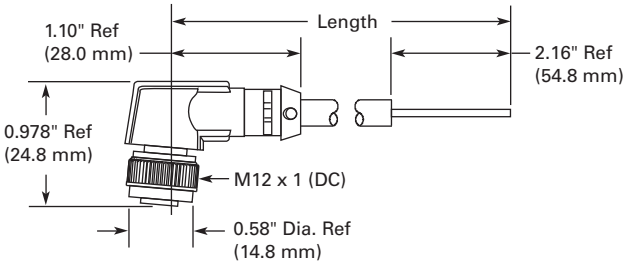
Approximate Dimensions in Inches (mm)

Single Connector Cable Dimensions

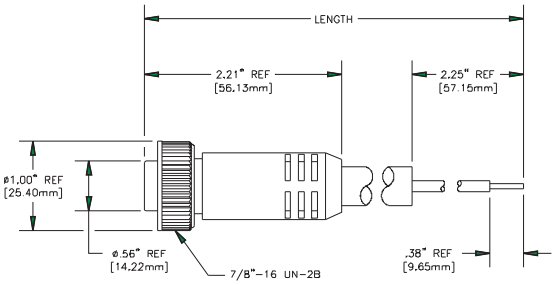
Micro-Style Single Connector Cables, Straight Female



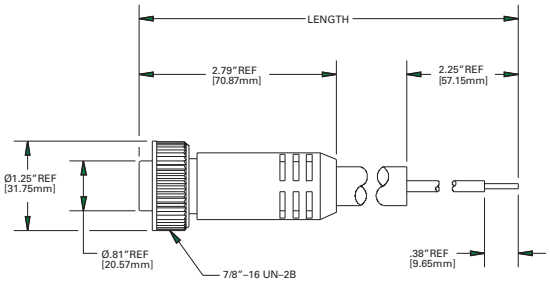
Micro-Style Single Connector Cables, Right Angle Female



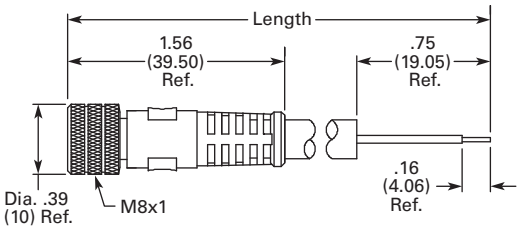
Mini-Style Single Connector Cables, 2-, 3-, 4- and 5-pin, Versions



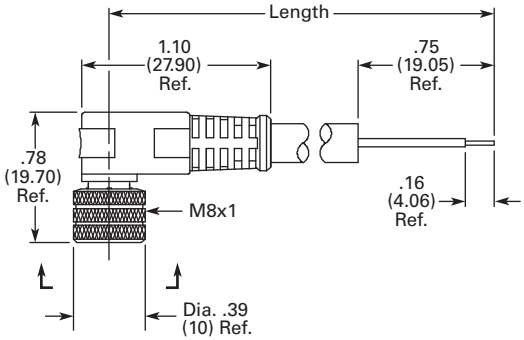
Mini-Style Single Connector Cables, 9-pin, Version



Nano-Style Single Connector Cables, Straight Female



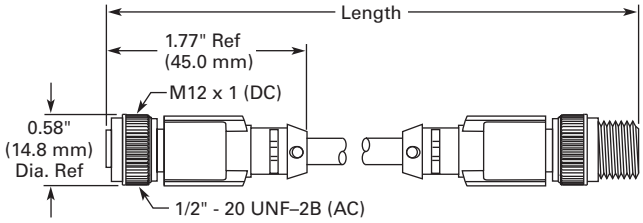
Nano-Style Single Connector Cables, Right Angle Female (Standard and LED)



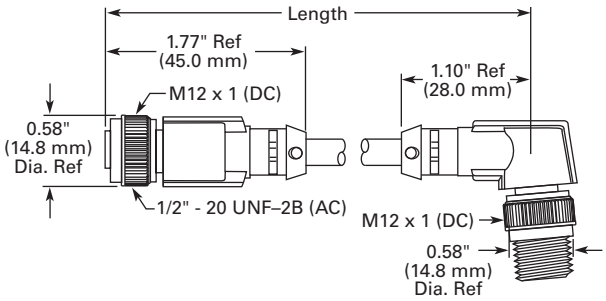
Approximate Dimensions in Inches (mm)

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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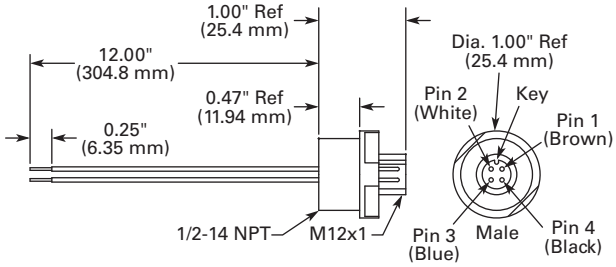
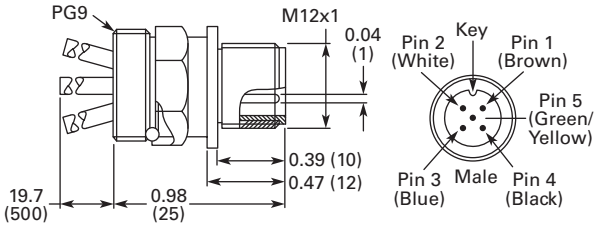
Receptacle Dimensions

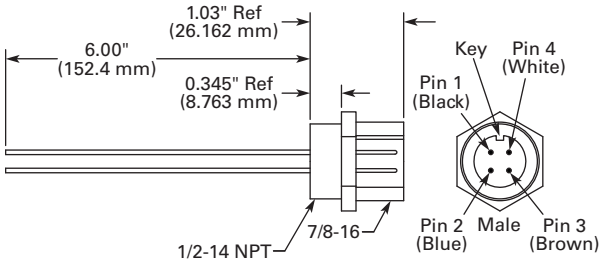
Micro-Style Receptacles, Straight Male (1/2 in NPT Mounting)



Micro-Style Receptacles, Straight Male (PG9 Mounting)



Mini-Style Receptacles, Straight Male



Multi-Connector Blocks

Contents

Description	*Page*
Multi-Connector Blocks	
Product Selection	**V8-T10-14**
Accessories	**V8-T10-14**
Technical Data and Specifications	**V8-T10-15**
Wiring Diagrams	**V8-T10-15**
Dimensions	**V8-T10-16**

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.

Application Description

Typical Applications

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

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

DANGER

THIS SENSOR IS NOT A SAFETY DEVICE AND IS NOT INTENDED TO BE USED AS A SAFETY DEVICE. This sensor is designed only to detect and read certain data in an electronic manner and perform no use apart from that, specifically no safety-related use. This sensor product does not include self-checking redundant circuitry, and the failure of this sensor product could cause either an energized or de-energized output condition, which could result in death, serious bodily injury, or property damage.

For the most current information on this product, visit our Web site: 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

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 V8-T10-15** and **V8-T10-16**	**CBDR4P05**
		10m cable		**CBDR4P10**
	6-port	5m cable		**CBDR6P05**
		10m cable		**CBDR6P10**
	8-port	5m cable		**CBDR8P05**
		10m cable		**CBDR8P10**

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 V8-T10-15** and **V8-T10-16**	**CBDR4PSC**
DC NPN				**CBDR4NSC**
DC PNP	6-port			**CBDR6PSC**
DC NPN				**CBDR6NSC**
DC PNP	8-port			**CBDR8PSC**
DC NPN				**CBDR8NSC**

Accessories

Closure Cap

Closure Cap

Description	Catalog Number
Seals off unused connector ports on multi-connector blocks, micro female type	**CBCAP**

Technical Data and Specifications

Multi-Connector Blocks

Description	Specification
General	
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	5M ohms max.
Isolation resistance	1000M ohms min.
Protection	NEMA 6P, IP68
Temperature range	–13° to 194°F (–25° to 90°C)
LED Status Indication	
Supply voltage	Green
Status display of I/O	Yellow

Master Cable—Spring Cage Connection

Description	Specification
Signal line, stranded in mm^2 (AWG)	0.14–1 (26–18)
Voltage supply, stranded in mm^2 (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]

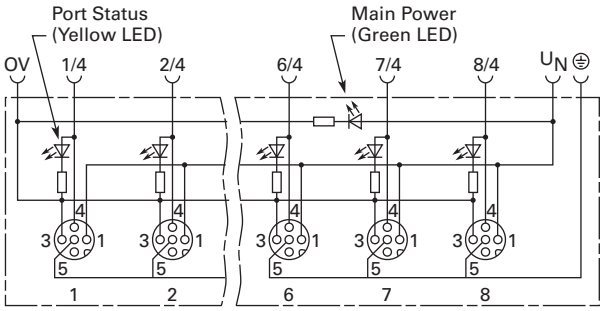
Master Cable—Pre-Wired Cable Connection

Description	Specification
Signal line, stranded in mm^2 (AWG)	0.34 (22)
Voltage supply, stranded in mm^2 (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.

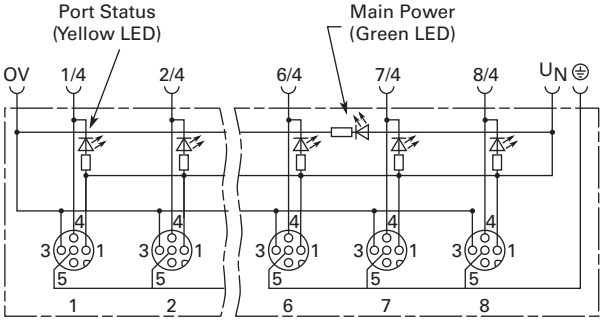
Wiring Diagrams

Micro-Style Connector Blocks

PNP Block



NPN Block



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_N (+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_N (+V)	U_N	U_N	U_N
1-8/5; PE (GND)	PE	PE	PE

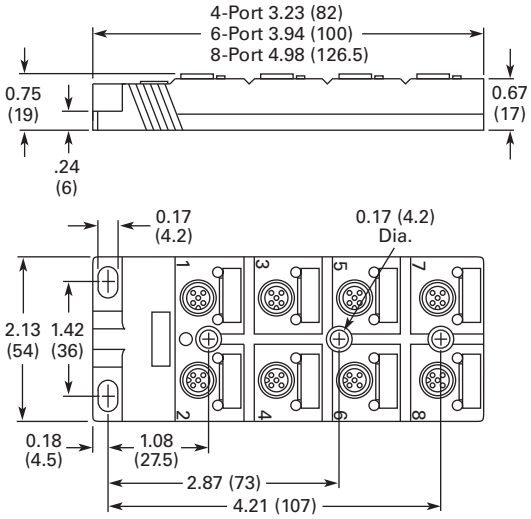
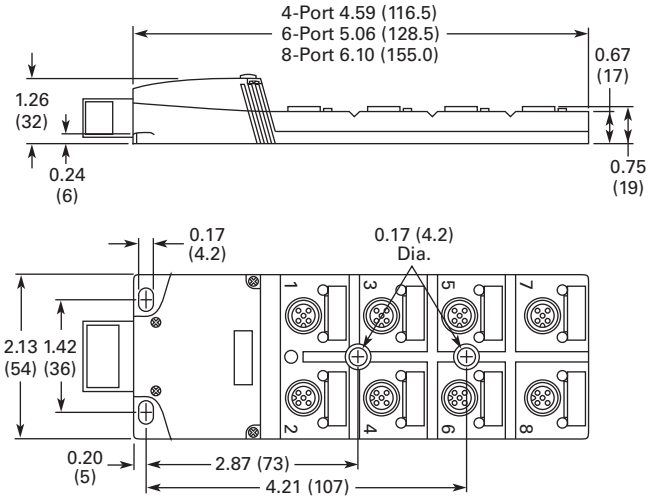
10

Dimensions

Approximate Dimensions in Inches (mm)

Micro-Style Connector Blocks

Top Female Cable



Top Female Connector