

Essential Components – Connectivity and Ethernet Media

Red, Rugged Industrial-grade Connectivity
and Ethernet Media for Safety Applications

Features

Red connectivity – cable spools, male and female cordsets and patchcords

- DC Micro, 4 conductor
- DC Micro, 5 conductor
- DC Micro, 8 conductor
- M23, 19 conductor

Red ethernet media – cable spools, RJ45 and M12 cordsets and patchcords

- Unshielded Twisted Pair (UTP) and Shielded Twisted Pair (STP) options available
- UTP PVC, 4 pair
- UTP TPE, 2 pair and 4 pair
- STP PVC, 4 pair
- STP PUR, 2 pair and 4 pair
- STP PVC 600V, 2 pair and 4 pair

Benefits

- The ability to identify a safety network on your machine by simply using a red-colored cable jacket
- Ease of installation by color coding and differentiating your application
- Connectors and cable styles are available for all of the safety component products: safety distribution boxes, safety switches and safety relays.



Rockwell Automation, as the global leader in safety solutions, has the most extensive range of safety-related control products and services in the marketplace. Our offering ranges from the most basic safety limit switches to the most advanced integrated safety controllers. To complement this offering, red cable jackets for connectivity and ethernet media product lines have been added to the portfolio.

A safety system provides protection to people, the plant and environment from hazardous situations. The safety control system will typically run in parallel with the production control system, even though these two can be combined into a single controller. Introducing red cable jackets provides flexibility and ease of identification of a safety application with minimized effort and wire tracing back to the controller.

Connectivity is offered in cable jacket colors of yellow, black and red with various connector styles. Ethernet media is offered in teal and red. These options simplify applications by creating a differentiation to separate the safety system.

All of the cordsets and patchcords are configurable and available in lengths from .1 meters. The DC Micro 4-, 5-, and 8-pin cables, as well as the M23 19-pin cables are available in male/female, straight/right angle options. The ethernet RJ45 cables are available in any combination of male RJ45 with a straight, right angle or left angle connector option. The ethernet M12 cables are available in male/female, straight/right angle options.

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General Ordering Information – Connectivity

Connectivity – Cable Spools

Jacket Material	Number of Conductors	Wire Size	Catalog Number
PVC, Red	4	24 AWG	889-C4KC-S*
PVC, Red	5	22 AWG	889-C5KC-S*
PVC, Red	8	24 AWG	889-C8KC-S*
PVC, Red	19	(16) 22 AWG & (3) 18 AWG	889-C19RR-S*

* Replace symbol with 50 (50 m), 100 (100 m), 200 (200 m) for standard cable spool lengths.

Connectivity – Cordsets

Jacket Material	Number of Conductors	Wire Size	Straight Female	Right Angle Female	Straight Male	Right Angle Male
PVC, Red	4	24 AWG	889D-F4NB-*	889D-R4NB-*	889D-M4NB-*	889D-E4NB-*
PVC, Red	5	22 AWG	889D-F5NC-*	889D-R5NC-*	889D-M5NC-*	889D-E5NC-*
PVC, Red	8	24 AWG	889D-F8NB-*	889D-R8NB-*	889D-M8NB-*	889D-E8NB-*
PVC, Red	19	(16) 22 AWG & (3) 18 AWG	889M-F19PM-*	889M-R19PM-*	889M-M19PM-*	889M-E19PM-*

* Replace symbol with 1 (1 m), 2 (2 m), 5 (5 m), 10 (10 m) for standard cable lengths.

Connectivity – Patchcords

Jacket Material	Number of Conductors	Wire Size	Straight Female to Straight Male	Straight Female to Right Angle Male	Right Angle Female to Straight Male	Right Angle Female to Right Angle Male
PVC, Red	4	24 AWG	889D-F4NBDM-*	889D-F4NBDE-*	889D-R4NBDM-*	889D-R4NBDE-*
PVC, Red	5	22 AWG	889D-F5NCDM-*	889D-F5NCDE-*	889D-R5NCDM-*	889D-R5NCDE-*
PVC, Red	8	24 AWG	889D-F8NBDM-*	889D-F8NBDE-*	889D-R8NBDM-*	889D-R8NBDE-*
PVC, Red	19	(16) 22 AWG & (3) 18 AWG	889M-F19PMMM-*	889M-F19PMME-*	889M-R19PMMM-*	889M-R19PMME-*

* Replace symbol with 1 (1 m), 2 (2 m), 5 (5 m), 10 (10 m) for standard cable lengths.

General Ordering Information – Ethernet

Ethernet – Cable Spools

Jacket Material	Number of Conductors	Wire Size	Shielding	Catalog Number
UTP, PVC, Red	8	24 AWG	–	1585-C8QB-S*
UTP, TPE, Red	4	24 AWG	–	1585-C4VB-S*
UTP, TPE, Red	8	24 AWG	–	1585-C8VB-S*
STP, PVC, Red	8	26 AWG	Foil & Braided	1585-C8WB-S*
STP, PUR, Red	4	26 AWG	Foil & Braided	1585-C4FB-S*
STP, PUR, Red	8	26 AWG	Foil & Braided	1585-C8FB-S*
STP, PVC 600V, Red	4	22 AWG	Foil	1585-C4EB-S*
STP, PVC 600V, Red	8	22 AWG	Foil	1585-C8EB-S*

* Replace symbol with 100 (100 m), 300 (300 m), 600 (600 m) for standard cable spool lengths.



Ethernet – RJ45 Patchcords

Jacket Material	Number of Conductors	Wire Size	Straight Male to Straight Male	Right Angle to Straight	Left Angle to Straight	Right Angle to Left Angle	Left Angle to Left Angle	Right Angle to Right Angle
UTP, PVC, Red	8	24 AWG	1585J-M8QBJM-*	1585J-E8QBJM-*	1585J-L8QBJM-*	1585J-E8QBJL-*	1585J-L8QBJL-*	1585J-E8QBJE-*
UTP, TPE, Red	4	24 AWG	1585J-M4KBJM-*	1585J-E4KBJM-*	1585J-L4KBJM-*	1585J-E4KBJL-*	1585J-L4KBJL-*	1585J-E4KBJE-*
UTP, TPE, Red	8	24 AWG	1585J-M8VBJM-*	1585J-E8VBJM-*	1585J-L8VBJM-*	1585J-E8VBJL-*	1585J-L8VBJL-*	1585J-E8VBJE-*
STP, PVC, Red	8	26 AWG	1585J-M8WBJM-*	1585J-E8WBJM-*	1585J-L8WBJM-*	1585J-E8WBJL-*	1585J-L8WBJL-*	1585J-E8WBJE-*
STP, PUR, Red	4	26 AWG	1585J-M4FBJM-*	1585J-E4FBJM-*	1585J-L4FBJM-*	1585J-E4FBJL-*	1585J-L4FBJL-*	1585J-E4FBJE-*
STP, PUR, Red	8	26 AWG	1585J-M8FBJM-*	1585J-E8FBJM-*	1585J-L8FBJM-*	1585J-E8FBJL-*	1585J-L8FBJL-*	1585J-E8FBJE-*
STP, PVC 600V, Red	4	22 AWG	1585J-M4EBJM-*	1585J-E4EBJM-*	1585J-L4EBJM-*	1585J-E4EBJL-*	1585J-L4EBJL-*	1585J-E4EBJE-*
STP, PVC 600V, Red	8	22 AWG	1585J-M8EBJM-*	1585J-E8EBJM-*	1585J-L8EBJM-*	1585J-E8EBJL-*	1585J-L8EBJL-*	1585J-E8EBJE-*

* Replace symbol with 1 (1 m), 2 (2 m), 5 (5 m), 10 (10 m) for standard cable lengths.

Notes:

- Right angle and left angle models also available

- When RJ45 tab is on top, the direction of the overmold specifies right angle or left angle

Ethernet – M12 Patchcords

Jacket Material	Number of Conductors	Wire Size	Male Straight to Male Straight	Male Straight to Male Right Angle	Male Right Angle to Male Right Angle	Male Straight to Female Straight	Male Straight to RJ45
UTP, TPE, Red	4	24 AWG	1585D-M4KBDM-*	1585D-M4KBDE-*	1585D-E4KBDE-*	1585D-M4KBDF-*	1585D-M4KBJM-*
STP, PUR, Red	4	26 AWG	1585D-M4FBDM-*	1585D-M4FBDE-*	1585D-E4FBDE-*	1585D-M4FBDF-*	1585D-M4FBJM-*
STP, PVC 600V, Red	4	22 AWG	1585D-M4EBDM-*	1585D-M4EBDE-*	1585D-E4EBDE-*	1585D-M4EBDF-*	1585D-M4EBJM-*

* Replace symbol with 1 (1 m), 2 (2 m), 5 (5 m), 10 (10 m) for standard cable lengths.

Notes:

- Right angle and left angle models also available

- When RJ45 tab is on top, the direction of the overmold specifies right angle or left angle

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