

Industrial Ethernet Media



600V On-Machine rated cable for use in a cable tray shared with high-voltage power cables

Features

Cable Spool

- Shielded, 22AWG, 8 conductor, PVC, 600V
- Shielded, 22AWG, 4 conductor, PVC, 600V
- 100 meter, 300 meter, 600 meter spools

RJ45 Cordsets & Patchcords

- Male to Male RJ45 Patchcord
- Overmolded right and left-angle patchcords

IP20 RJ45 Field Attachable

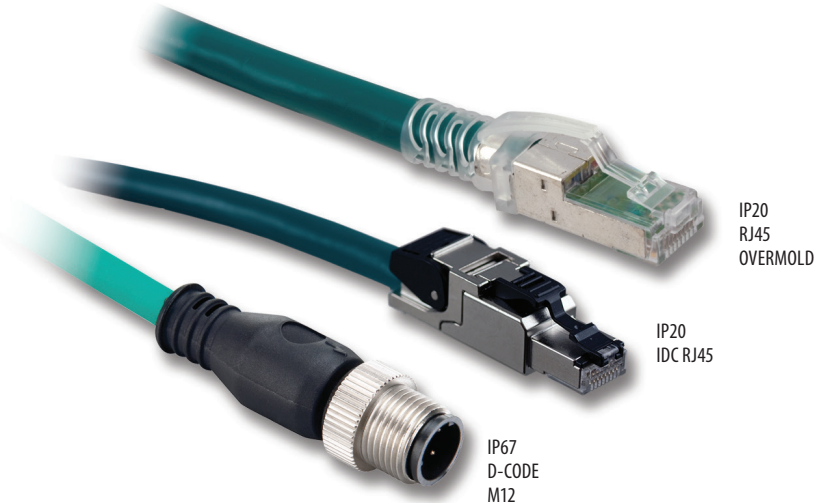
- Male Insulation Displacement Insert (IDC)
- Field assembly for custom cordsets and patchcords

M12 Field Attachable Connector

- Rugged and durable to handle tough environments

Benefits

- 600V PVC Cable is designed to support high-voltage applications
- On-Machine rated cable for use in a cable tray shared with high-voltage power cables
- Recommended with MCC, Kinetix, and Motion Control
- Meets UL and NFPA requirements, suitable for M₃I₃C₃E₃, and is Cat 5e



Allen Bradley® has developed the first-of-its-kind 600V Ethernet cable. Designed for high-voltage applications, this patented Rockwell Automation® cable is a powerful step-up from the standard 300V Ethernet cable.

The construction of this 600V cable is unique due to the application and the targeted application space. It was developed based on the need to allocate data communications cabling with and in areas where there is high-voltage cabling. High-voltage cabling such as drives and drive power tend to produce high EMI that could have a negative impact on communications such as Ethernet. And with communications closely integrated with drives and other high-voltage connected devices, it is extremely difficult and costly to mix data communications in the same space.

600V cable supports voice, video and data – all in the same environment

Developed specifically for EtherNet/IP, this easy-to-use cable supports voice, video and data – all in the same environment. Plus, this advanced cable allows direct application in the same space as other 600V cables – while still providing noise immunity and without additional barriers and raceways. With these impressive features, the 600V Ethernet cable will provide users with a huge competitive advantage in the marketplace .

The innovative Rockwell Automation 600V product line includes Ethernet connectivity with shielded twisted pair products, cable spools, RJ45 cordsets and patchcords, and a special RJ45 insulation displacement connector that is only compatible with the 600V cables. However, as the product line grows, this connector will evolve to fit various cable widths. The 600V cable meets the UL and NFPA requirements, suitable for M₃I₃C₃E₃ and is Cat 5e.

Rockwell Automation offers a full suite of Ethernet connectivity products including unshielded and shielded cable spools, RJ45, M12 D Code, and Variant 1 patchcords and connectors.

To learn more, go to www.ab.com/networks/media/ethernet.

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Cable Spools

Jacket Material	Conductors	Wire Size	Operating Temperature	Cable Rating	Catalog No.
Shielded 600V, PVC	8	22 AWG	-20 to +80° C (-4 to +176° F)	UL, cUL TYPE CMG; UL PLTC or UL AWM 2570 80C 600V, TIA 568B	1585-C8HB-S*
Shielded 600V, PVC	4	22 AWG	-20 to +80° C (-4 to +176° F)	UL, cUL TYPE CMG; UL PLTC or UL AWM 2570 80C 600V, TIA 568B	1585-C4HB-S*

- * Replace symbol with 100 (100 m), 300 (300 m), 600 (600 m) for standard cable lengths
- Replace HB with EB for Red color cable jacket

RJ45 Cordsets and Patchcords

Jacket Material	Conductors	Jacket Color	First End Connector	Second End Connector	Operating Temperature	Catalog No.
Shielded 600V, PVC	8	Teal	Male RJ45**	Flying Leads	-20 to +80° C (-4 to +176° F)	1585J-M8HB-*
Shielded 600V, PVC	8	Teal	Male RJ45**	Male RJ45**	-20 to +80° C (-4 to +176° F)	1585J-M8HBJM-*
Shielded 600V, PVC	4	Teal	Male RJ45**	Flying Leads	-20 to +80° C (-4 to +176° F)	1585J-M4HB-*
Shielded 600V, PVC	4	Teal	Male RJ45**	Male RJ45**	-20 to +80° C (-4 to +176° F)	1585J-M4HBJM-*
Shielded 600V, PVC	8	Teal	Right Angle RJ45**	Male RJ45 Straight**	-20 to +80° C (-4 to +176° F)	1585J-E8HBJM-*
Shielded 600V, PVC	8	Teal	Left Angle RJ45**	Male RJ45 Straight**	-20 to +80° C (-4 to +176° F)	1585J-L8HBJM-*
Shielded 600V, PVC	4	Teal	Right Angle RJ45**	Male RJ45 Straight**	-20 to +80° C (-4 to +176° F)	1585J-E4HBJM-*
Shielded 600V, PVC	4	Teal	Left Angle RJ45**	Male RJ45 Straight**	-20 to +80° C (-4 to +176° F)	1585J-L4HBJM-*

- * Replace symbol with 2 (2 m), 5 (5 m), 10 (10 m) for standard cable lengths
- Replace HB with EB for Red color cable jacket
- ** Overmolded Connectors

Field Attachable Connectors

Description	Wire Size	Operating Temperature	Catalog No.
RJ45 Insulation Displacement Connector (IDC)	27 - 22 AWG (Solid) 27 - 24 AWG (Stranded)	-40 to +70° C (-4 to +156° F)	1585J-M8CC-H
M12 Insulation Displacement Connector (IDC)	22 AWG	-25° C to 85° C	1585D-M4HC-SH

** These IDC connectors have been tested and are compatible with all Rockwell Automation cable spools. Rockwell Automation does not recommend the use of these connectors with competitive cable providers since the cable may not meet all of the requirements needed to ensure a reliable connection.*

M12 Cordsets and Patchcords

Jacket Material	Conductors	Jacket Color	First End Connector	Second End Connector	Catalog No.
Shielded 600V, PVC	4	Teal	Male M12, Straight [†]	Male M12, Straight [†]	1585D-M4HBDM-*
Shielded 600V, PVC	4	Teal	Male M12, Right Angle [†]	Male M12, Right Angle [†]	1585D-E4HBDE-2*
Shielded 600V, PVC	4	Teal	Male M12, Straight [†]	Male M12, Right Angle [†]	1585D-M4HBDE-*
Shielded 600V, PVC	4	Teal	Male M12, Straight [†]	Female M12, Straight [†]	1585D-M4HBDF-*
Shielded 600V, PVC	4	Teal	Male M12, Straight [†]	IDC RJ45	1585D-M4HBJM-*

- * Replace symbol with 2 (2 m), 5 (5 m), 10 (10 m) for standard cable lengths
- Replace HB with EB for Red color cable jacket
- † Overmolded Connectors

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