

DataTuff Industrial REVConnect Field-Termination RJ45 Connectors

Industrial REVConnect RJ45 connectors offer an efficient field-termination solution with a superior insulation piercing mechanism and EMI protection for utmost reliability.



Ensure network reliability and uptime with a sophisticated insulation piercing mechanism that supports all conductor types.



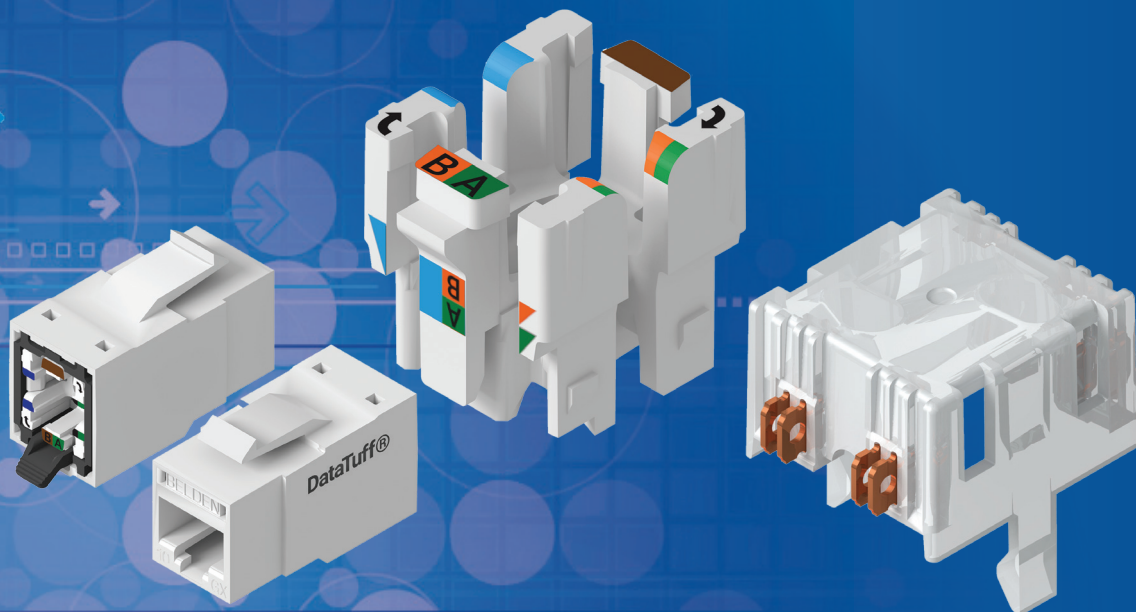
Save precious time in the field with an easier cable termination method and the perfect connector for bonded-pair cables.



Withstand harsh elements including vibration, noise and extreme temperatures with UL94 V-0 materials and all key industrial protection ratings.

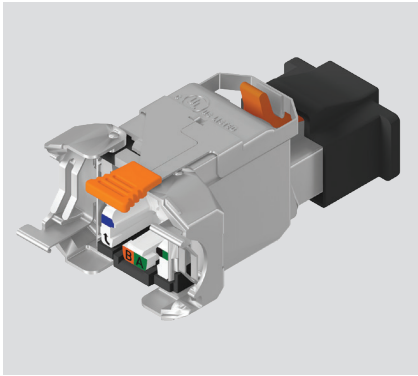
Key Features

- Compatible with 22-24 AWG Ethernet Cat5E, 6 and 6A cables
- Easy field termination and troubleshooting without twisted pair separation
- Universal core to accommodate various outer jackets (jack or plug)
- Safe in harsh settings, including exposure to oil, extreme temperatures, some corrosive gas and vibration with UL94 V-0 materials, EMI protection and E2/E3 ratings
- Reliable path to ground and withstands climatic chemicals and mechanical risks (crushing, bending, shock and vibration)
- IP20-rated design for enclosed racks and cabinets in industrial environments
- Capable of re-termination (up to 200 cycles) with enhanced insulation piercing mechanism
- Extensive operating temperature range of -40°C to +70°C



Belden's DataTuff Industrial REVConnect eliminates the need for tedious cable separation and delivers a simplified field termination solution for bonded-pair technology in harsh industrial environments.

Be certain.
Belden.



Markets

Versatile and relevant to most industrial markets.

- Automation
- Machine Building
- Discrete Manufacturing
- Wind, Solar and Conventional Power
- Power Transmission and Distribution
- Oil and Gas
- Water/Wastewater
- Mining
- Food & Beverage
- Automotive
- Consumer Packaged Goods
- Security
- Transportation Markets, including Mass Transit, Traffic Control, Airports, Railway or Train Stations

Your Benefits

Field termination of Ethernet cables can be time-consuming, especially when dealing with bonded-pair technology, which requires teams to separate all twisted pairs before installation. Belden's Industrial REVConnect solution is designed to overcome this exact pain point for RJ45 connectors, delivering an incredibly efficient and easy-to-use cable management system.

Equipped with a superior insulation piercing mechanism, the ruggedized, field-installable connectors ensure the highest levels of network reliability over time and make it easy for engineers to correct intermittent issues with signal transmission. The Industrial REVConnect is created with UL94 V-0 materials, meaning it is self-extinguishable within 60 seconds and meets all key protection ratings for harsh industrial environments, including resistance to vibration, noise, shock, electromagnetic interference and extreme operating temperatures.

The RJ45 connectors feature a universal and flexible core for compatibility with various jackets and come with options for pre-terminated cable and cores to be applied as either jacket or plug.

Applications

Built specifically to withstand exposure to harsh elements in the field, the Industrial REVConnect RJ45 connectors are ideal for use by engineers, system integrators and machine builders working alongside enclosed racks and cabinets. Any industrial application requiring an easy-to-use field-termination solution will benefit from this ruggedized solution.

Industrial REVConnect Components

RJ45 Connector Nomenclature

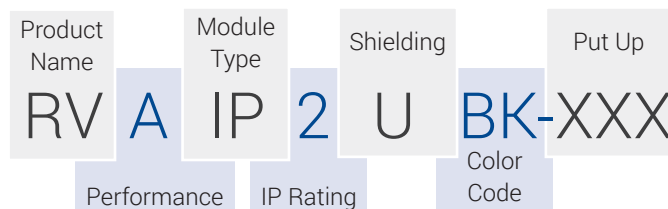
PRODUCT NAME		PERFORMANCE		MODULE TYPE	
Industrial REVConnect	RV	Cat 6A	A	Industrial Jack	IJ
SHIELDING		Cat 6	6	Industrial Plug	IP
Unshielded	U	Cat 5e	5	Industrial Coupler	IU
Shielded	S	Universal Item	U	Industrial Core	IO
IP RATING		COLOR CODE		PUT UP	
IP20	2	Orange	OR	Single Bag	S1
No IP	0	Teal	TE	Bulk Pack of 24	B24
		Black	BK	Bulk Pack of 50	B50
		Blue	BL		
		White	EW		
		Metal	ME		

* 22 AWG wire shall meet Insulation OD requirement

Configuring Your Part Number

Using the table above, complete the part numbers listed on the chart on page 3.

Here's an example:



Part Numbers

IMAGE	COMPONENT	PART #	COLOR	DESCRIPTION
	Plug, Cat 5e, 6, 6A UTP RJ45	RVAIP2UBK-XXX	Black	Industrial REVConnect IP20 RJ45 Unshielded Cat 6A Plug with Universal Core(s)
	Plug, Cat 5e, 6, 6A STP RJ45	RVAIP2SME-XXX	Metal	Industrial REVConnect IP20 RJ45 Shielded Cat 6A Plug with Universal Core(s)
	Jack, Cat 5e UTP RJ45	RV5IJ2UXX-XXX	5 Colors	Industrial REVConnect IP20 RJ45 Unshielded Cat 5e Jack with Universal Core(s)
	Jack, Cat 6 UTP RJ45	RV6IJ2UXX-XXX	5 Colors	Industrial REVConnect IP20 RJ45 Unshielded Cat 6 Jack with Universal Core(s)
	Jack, Cat 6A UTP RJ45	RVAIJ2UXX-XXX	5 Colors	Industrial REVConnect IP20 RJ45 Unshielded Cat 6A Jack with Universal Core(s)
	Jack, Cat 5e STP RJ45	RV5IJ2SME-XXX	Metal	Industrial REVConnect IP20 RJ45 Shielded Cat 5e Jack with Universal Core(s)
	Jack, Cat 6 STP RJ45	RV6IJ2SME-XXX	Metal	Industrial REVConnect IP20 RJ45 Shielded Cat 6 Jack with Universal Core(s)
	Jack, Cat 6A STP RJ45	RVAIJ2SME-XXX	Metal	Industrial REVConnect IP20 RJ45 Shielded Cat 6A Jack with Universal Core(s)
	Core	RVUI00UEW-XXX	White	Universal Industrial REVConnect Core for use with Jack or Plug
	Coupler, Cat 5e, 6, 6A UTP	RVAIU2UXX-XXX	White/Black	Industrial REVConnect Cat 6A Coupler that connects 2 Cores
	Cordset, Custom	VRXXX-XXX-XXX	Custom	Custom Cable, Color, Length Terminated with Industrial REVConnect Core
	Tool, Crimping	RVUTT01	NA	Include Cable Stripping Tool and Crimping Tool for Industrial REVConnect Core
	Tool, Outlet Release	AX101185	NA	Tool to Release Core from Industrial REVConnect Jack or Plug

Cable Compatibility Chart

Specifications		* dimensions in mils					
Industrial REVConnect	Cable**	Cable OD		Insulation OD		Wire Gauge	
		MIN	MAX	MIN	MAX	MIN	MAX
RVxIJ2U	UTP	-	366	35	53	24	22*
RVxIJ2S	STP	230	366				
RVAIP2U	UTP	-	327				
RVAIP2S	STP	230	366				

* 22 AWG wire shall meet Insulation OD requirement

** Industrial REVConnect is compatible with armored products when the cable inside the armor meets above requirements

Industrial REVConnect compatible (validated) - UTP

7922A	7927A	7932A	2146A		
7923A	7930A	7935A	11700A		
7924A	7931A	7940A	11872A		

Industrial REVConnect not-compatible (validated) - UTP

7918A (*2)	7928A (*2)				
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Industrial REVConnect compatible (validated) - STP

7919A	7936A	7953A	7958A		
7929A	7937A	7957A			

Industrial REVConnect not-compatible (validated) - STP

7933A (*3)	7960A (*1)	7961A (*1)	7962A (*1)		
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Notes

*1 Insulation OD > 53 mils

*2 Insulation OD < 35 mils

*3 Cable OD < 230 mils

To see cable termination guides for each cable type, please go to belden.com/industrial-revconnect

About Belden

Belden Inc., a global leader in high quality, end-to-end signal transmission solutions, delivers a comprehensive product portfolio designed to meet the mission-critical network infrastructure needs of industrial, enterprise and broadcast markets. With innovative solutions targeted at reliable and secure transmission of rapidly growing amounts of data, audio and video needed for today's applications, Belden is at the center of the global transformation to a connected world. Founded in 1902, the company is headquartered in St. Louis, USA, and has manufacturing capabilities in North and South America, Europe and Asia.

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