



*Belden's new cables are
designed to NEC Article
800 requirements for
type CMP cables and
RS-485 applications.*

Belden Introduces New RS-485 Cables For Use in Plenum Environments

NP 166

Plenum applications require extra measures of protection and performance.

RS-485 transmission in plenum environments has traditionally required a conduit to protect the cable. Now Belden has introduced new RS-485 cables that are type CMP listed, with flame and smoke-protection performance to run in a plenum without a conduit—and without sacrificing electrical performance.

Excellent Performance In Plenum Environments

Belden's new RS-485 cables feature tinned copper twisted pair construction with foamed FEP insulation and 24 AWG stranded tinned copper drain wire. They feature an overall tinned copper braid shield (90 percent coverage) and an overall Beldfoil aluminum foil-polyester shield.

These new cables feature the relatively low capacitance (12pF/ft) and high impedance (120 ohm) electrical characteristics the industry has come to expect from Belden RS-485 cables. These characteristics allow for minimal signal distortion and effective transmission at extended distances, making them an excellent choice for security, data acquisition, and other RS-485 applications.

New Jacket Options

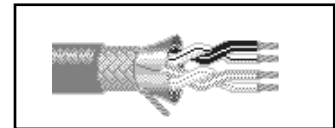
Belden's new RS-485 cables are available in your choice of jacket options to meet the requirements of your application. Options include:

Flamarrest® Jacket. Flamarrest is a low-smoke, flame-retardant compound that is five times more flexible than fluorocopolymer. This innovative jacket offers advantages in both cost efficiency and ease of installation.

FEP Jacket. Belden also offers a fluorinated ethylene propylene (FEP) jacket for applications where high temperatures are an issue. Belden's FEP jackets will handle temperatures from +200C to -70C. The FEP jacket creates a superior industrial cable for rugged environments, both indoor and outdoor.

Belden Quality You Can Trust

Belden cable is manufactured using the industry's highest standards of quality, with the most advanced equipment, systems, controls, and processes. In fact, Belden has long been a pioneer in production processes, such as statistical process control (SPC) that have become industry standards. And Belden was the first major designer and manufacturer of specialty wire and cable products to achieve ISO 9000 registration for the majority of our domestic and overseas facilities.






Available Now From
Belden

Belden's new RS-485 plenum cables are available in standard 500' and 1,000' packages. Other lengths are available by special order.

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Specifications:

Description UL AWM Style	Trade No. UL NEC Type CSA Cert.	Standard Lengths		Std. Unit Lbs. ea.	AWG (strand- ing) [Dia. in In.] Nom. D.C.R.	Insulation & Nominal Core O.D.		Nominal O.D.		No. of Shields & Material Nom. D.C.R.	Nom Imp. (ohm s)	Nom. Vel. of Prop.	Nominal Capacitance between cdrs		Nominal Capacitance between cdr & shield	
		ft.	m			Inch	mm	Inch	mm				pF/ft.	pF/m	pF/ft.	pF/m
<p>Product Description Tinned copper, Foamed FEP - Foam Fluorinated Ethylene Propylene insulation, twisted pairs. Overall Beldfoil Aluminum Foil-Polyester Shield. 24 AWG stranded tinned copper drain wire. Overall tinned copper braid shield (90% coverage). Natural FA - Flammarrest® jacket.</p>																
	82841 NEC CMP CEC CMP	500 1,000	152.4 304.8	16.0 27.9	24 (7x32) tinned copper .024" 24Ω/m 78.74 Ω/km	.025"	.64	.204	5.18	Overall Beldfoil + 90% t.c. braid 3.1Ω/m 10.2Ω/km	120	76%	12	39.4	22	72.2
	82842 NEC CMP CEC CMP	500 1,000	152.4 304.8	20.9 41.6	24 (7x32) tinned copper .024" 24Ω/m 78.74 Ω/km	.019"	.48	.273	6.93	Overall Beldfoil + 90% t.c. braid 2.4Ω/m 7.9Ω/km	120	76%	12	39.4	22	72.2
<p>Product Description Tinned copper, Foamed FEP - Foam Fluorinated Ethylene Propylene insulation, twisted pairs. Overall Beldfoil Aluminum Foil-Polyester Shield. 24 AWG stranded tinned copper drain wire. Overall tinned copper braid shield (90% coverage). Red FEP - Fluorinated Ethylene Propylene Jacket</p>																
	89841 NEC CMP CEC CMP	500 1,000	152.4 304.8	16.5 28.9	24 (7x32) tinned copper .024" 24Ω/m 78.74 Ω/km	.025"	.64	.202	5.13	Overall Beldfoil + 90% t.c. braid 3.1Ω/m 10.2Ω/km	120	76%	12	39.4	22	72.2

Other RS-485 Cables Available from Belden:

- 8132 • 9843
- 8133 • 9844
- 8134 • 3105A
- 8135 • 3106A
- 8138 • 3107A
- 8142 • 3108A
- 8148 • 3109A
- 8155
- 9841
- 9842

For More Information:

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