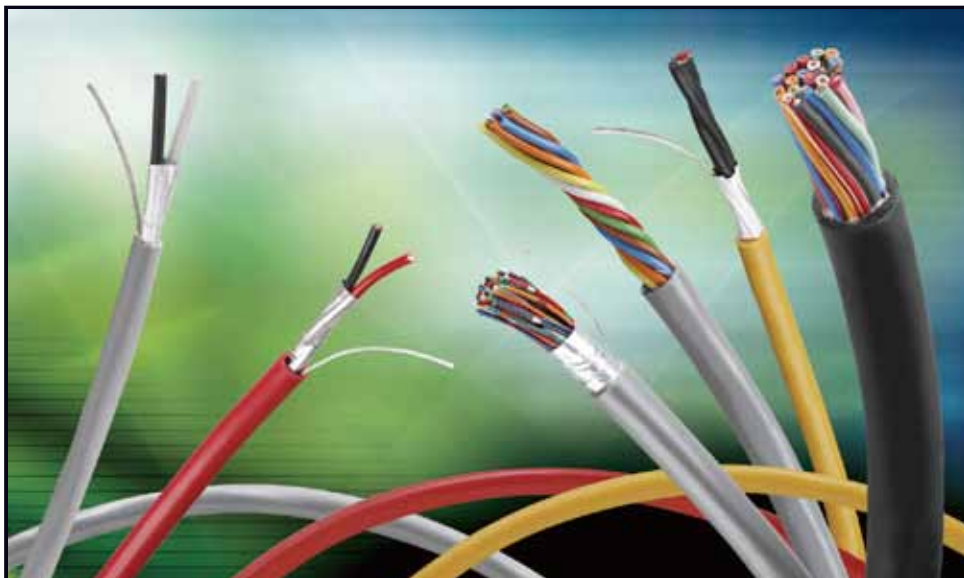


## Belden's Classic Range of Industrial Cables

### Belden Classics

Belden's Classic Line includes a select number of high quality, high reliability Multi-conductor and Paired Cables, as well as Hook-up and Lead Wire. These known performers meet or exceed UL standards and have been used worldwide for decades.



### Belden Classic Cables Provide Best-in-class Performance for a Wide Range of Applications: Video, Sound and Security Industrial OEM & Specialty

Belden Classic products are manufactured in a wide variety of gauge (AWG) sizes, insulation materials, shielding configurations, and jacketing materials including Plenum and High-temperature versions. These Multi-conductor, Paired, Hook-up and Lead Wire products offer best-in-class performance and reliability in many different systems.

Features/benefits of the Classics line include:

- Unsurpassed quality and reliability
- Robust designs that meet or exceed UL standards
- Proven performance in installations worldwide
- Broad range of AWG sizes, shielding options, conductor and pair counts
- Convenient put-up options
- Cables with polyolefin insulations provide lower capacitance performance when compared to cables with PVC insulations
- Tefzel, TFE and FEP insulation and jacket constructions offer higher temperature ratings
- Global availability through a network of Belden distributors

#### Shielding

Belden meets the demand for highly effective shielding technology with innovative, EMI/RFI-protective foil and braid designs like Beldfoil®. Belden's patented Beldfoil shield is an aluminum/ polyester foil construction that yields a lightweight, strong, flexible and thin shield that provides extra insulation and 100% shield coverage. Beldfoil is ideally suited for multiple-pair, individually shielded audio, communication, and data cables.

#### Product Consistency

By manufacturing our products in ISO certified, state-of-the-art manufacturing facilities, Belden assures that quality is built into each and every product. Precise diameter control of insulation and jacket diameters and concentric wall thickness assure fast, reliable manufacturing in high-speed automated equipment, and ease of termination and assembly in the field.

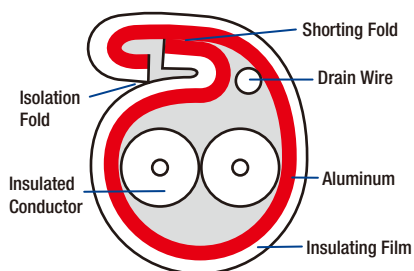
#### Multi-conductor and Paired Cables

Belden offers one of the broadest lines of UL Listed, NEC and CEC multi-conductor cables available from any single source. Paired designs allow balanced signal transmission which results in lower crosstalk through common mode rejection. Due to the improved noise immunity of twisted pairs, they generally permit higher data speeds than traditional multi-conductor cables. Belden Multi-conductor and Paired products deliver low voltage analog data signals within enclosures, from controllers and I/Os to devices such as temperature and pressure sensors, relays, valves, meters, thermocouples, solenoids, actuators, contactors, push buttons, and alarms. They also are applicable for computers, communications, instrumentation, sound, control, audio, data transmission, and many more applications.

#### Hook-up and Lead Wire

Belden's Hook-up and Lead Wire products are available in a broad range of AWG sizes, insulation types, and ratings. As a result, consistent product quality is always assured. Belden Hook-Up/Lead Wire can be used in the inter-connection of circuits, the internal wiring of computer and data processing equipment, in harness fabrication, and in various appliance, lighting, motor lead, heating and cooling equipment, automotive application among others.

#### Beldfoil Shield, Z-fold Design



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Description	Part No	UL NEC/ C(UL) CEC Type	Standard Lengths	Standard Unit Wt.	Conductor (stranding)	Nominal OD	Shielding Materials	Nominal Imp	Nominal Capacitance
			M	Kg		mm		(Ω)	pF/M
<b>Profibus PA / Foundation Fieldbus Cable</b>									
300V 105°C Type A	3076F	NEC PLTC CM	304.8	16.8	18AWG Stranded 0.82sqmm	6.43	Beldfoil	100	78.7
<b>Profibus DP Cable</b>									
300V 75°C UL AWM 21201	3079A	NEC PLTC CMG	304.8	25.4	22AWG Solid 0.64mm	8	Beldfoil +65% TC Braid	150	27.9
<b>DeviceBus 300V Class 2 Thin Cable</b>									
75°C	3085A	NEC CL2 CMG	304.8	21.4	22AWG+24 AWG Stranded 0.21sqmm	7.11	Individual Beldfoil +65% TC Braid	NA	39.4
<b>EIA Industrial RS-485 PLTC/CM Cable</b>									
Oil Res II 300V 1pair	3105A	NEC CM PLTC	304.8	22.7	22AWG Stranded 0.32sqmm	7.21	Beldfoil +90% TC Braid	120	36.1
2 pair	3107A	NEC CM PLTC	304.8	31.1	22AWG Stranded 0.32sqmm	9.04	Beldfoil +90% TC Braid	120	36.1
<b>Control and Instrumentation Cable</b>									
30V 60°C	8723	NEC CM	304.8	9.1	22AWG Stranded 0.32sqmm	4.06	Individual Beldfoil 100%	45	115
UL AWM Style 2092 300V 60°C	8760	NEC CM	304.8	11.8	18AWG Stranded 0.82sqmm	5.64	Beldfoil	NA	79
Low Cap UL AWM Style 2092	8761	NEC CM	304.8	8.2	22AWG Stranded 0.32sqmm	4.45	Beldfoil	NA	79
Style 2919 30V 80°C	8777	NEC CM	304.8	18.6	22AWG Stranded 0.32sqmm	6.93	Individual Beldfoil 100%	50	98
<b>Interconnect Cable</b>									
Style 2493 300V 60°C	9729	NEC CM	304.8	17.7	24AWG Stranded 0.21sqmm	6.76	Individual Beldfoil 100%	100	41
<b>EIA RS-485 Computer Cable</b>									
Style 2919 30V 80°C 1 pair	9841	NEC CM	304.8	18.2	24AWG Stranded 0.21sqmm	5.89	Beldfoil +90% TC Braid	120	42
2 pair	9842	NEC CM	304.8	25.9	24AWG Stranded 0.21sqmm	8.64	Beldfoil +90% TC Braid	120	42
3 pairs	9843	NEC CM	304.8	30.5	24AWG Stranded 0.21sqmm	9.14	Beldfoil +90% TC Braid	120	42
4 pairs	9844	NEC CM	304.8	37.7	24AWG Stranded 0.21sqmm	9.91	Beldfoil +90% TC Braid	120	42

## Belden Classic Industrial Cables

### Tough Cables That Keep Performing

This is the world's most comprehensive line of industrial cabling solutions – whether for networking factory floor equipment, hardware and controllers or relaying data between the control room, the engineering department and remote manufacturing sites or a combination of all the above.



Belden industrial cables are designed to provide reliable communication between corporate headquarters and the plant, management and employees and everywhere in between.

### Key Applications

- Processing Industries – Mining, Oil & Gas, F&E, Pharma, Pulp and Paper, Cement and Petro chemical processing
- Discrete Manufacturing – Automotive, Industrial Equipment Packaging, Medical devices & Equipment and Machine tools
- Infrastructure – Airports, Water and waste Water, Pipelines Wind / solar power, Shipyards & Shipping vessels, Electric Hydroelectric, Gas and Nuclear power Generation

Because of the wide array of Industry standards and approvals garnered by Belden Classic product line, it is suitable for many applications, which include : but are not limited to RS 232, RS 422/ 423/ 485

**Computer and CAD/CAM** – low speed data communication from microprocessor to device utilizing simple commands (On, Off, Stop, Start)

**Control and Instrumentation** – Analog signals for machine control (sensors, valves, switches)

**Fire Alarm / Security** – Detection monitoring systems for fire and intrusion

**Power supply** – low voltage power and control of devices

**Computer / POS** – low speed data for Point of sales equipment.

Belden has been working closely with system integrators and end customers in various markets for many years. Based on this experience, Belden is able to offer customized solutions using a wide range of products designed to meet the latest market-standards and leading edge technologies. Many if not all leading automotive producers for instance trust Belden solutions and have authorized their use in their production process.

### Find the Right product for your Application:

Belden Classic cables are available ex-stock from Belden Channel partners. The Classic cables from Belden offer a 10 year warranty and other advantages like: Quick quote turnaround time, Market intuitive pricing, Low Minimum order quantities and short product delivery lead times.



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## Industrial Communications Protocol Cross Reference

System Name	Belden Part Number	
<b>Can Open/HART/ RS-485</b>	3105A 1 Pair, RS-485 (PLTC)	
	3106A 1.5 Pair, RS-485 (PLTC)	
	3107A 2 Pair, RS-485 (PLTC)	
<b>CC-Link</b>	1348A 20/3C, Foil + Braid Shield (formerly YR47205)	
	1349A 20/3C Shielded + 18/2C Power (formerly YR47198)	
<b>ControlNet</b>	3092A RG-6 PVC Quad Shield	
	3092F RG-6 PVC Quad Shield, Flex Version, Alum. Braid	
	YR28890 RG-6 PVC Quad Shield, Flex Version, Copper Br.	
	3093A RG-6 FEP Quad Shield, Plenum	
	123092A Aluminum Armor (3092A)	
	133092A Steel Armor (3092A)	
	183092A Continuous Armor (3092A)	
	9463 20 AWG Twinax, Blue Hose	
<b>DataHighway (DH) &amp; DataHighway Plus (DH+) Remote I/O</b>	3072F 600V, TC Blue Hose	
	9463DB Direct Burial Blue Hose	
	9463F High-Flex, Blue Hose	
	89463 High Temp, Plenum Blue Hose	
	129463 Aluminum Armor (9463)	
	139463 Steel Armor (9463)	
	189463 Continuous Armor (9463)	
	YR28826 Dual Blue Hose	
	YC39151 Dual Armored Blue Hose	
	YR28764 Thick Wall PLTC Blue Hose	
	YR29565 Colored Blue Hose	
	YR41104 Low Smoke Zero Halogen Blue Hose	
	<b>DeviceNet</b>	3082A PVC (Thick)
3082F High-Flex (Thick)		
3082K CL2 (Flat)		
3082KP Auxiliary Power (Flat)		
3083A CPE (Thick)		
3084A PVC (Thin)		
3084F High-Flex (Thin)		
3085A CPE (Thin)		
7895A CL2 PVC (Cable III Mid)		
7896A CL1 PVC (Type V Trunk Cable)		
7897A CL1 PVC (Thick)		
7900A CL1 Unshielded (Drop Cable IV)		
3076F Type A, 18 AWG, Foil, PLTC-ER ITC		
3077F Type B, 1200m (31.25K)		
3078F High speed 500m (2.5MHz)		
HSE Copper & Fiber See Industrial Ethernet listing.		
<b>FOUNDATION Fieldbus (Type SP50 ISA/IEC)</b>	1334A Type A, 18 AWG, Foil & Braid, PLTC ITC	
	1335A Type A, 16 AWG, Foil & Braid, PLTC-ER ITC	
	1336A Type A, 14 AWG, Foil & Braid, PLTC-ER ITC	
	1327A Type A, 18 AWG, 2 Pairs, PLTC ITC	
	1328A Type A, 18 AWG, 5 Pairs, PLTC ITC	
	1329A Type A, 18 AWG, 8 Pairs, PLTC ITC	
	1330A Type A, 18 AWG, 12 Pairs, PLTC ITC	
	1331A Type A, 18 AWG, 16 Pairs, PLTC ITC	
	1332A Type A, 18 AWG, 20 Pairs, PLTC ITC	
	1333A Type A, 18 AWG, 24 Pairs, PLTC ITC	
	<b>HART/RS-485/ Can Open</b>	3105A 1 Pair, RS-485 (PLTC)
		3106A 1.5 Pair, RS-485 (PLTC)
		3107A 2 Pair, RS-485 (PLTC)
	<b>Industrial Ethernet</b>	7932A Cat 5e, 2-Pair, Bonded
		7933A Cat 5e, 2-Pair, Bonded, Shielded
7923A Cat 5e, 4-Pair, Bonded		
7918A Cat 5e, 4-Pair		
7924A Cat 5e, 4-Pair, Bonded, Flexible		
7929A Cat 5e, Bonded, Stranded, Shielded		
7930A Cat 5e, 4-Pair, Flexible		

System Name	Belden Part Number
<b>Industrial Ethernet (Continued)</b>	7922A Cat 5e, 4-Pair, Bonded, PLTC
	7934A Cat 5e, 4-Pair, Bonded, Burial
	7937A Cat 5e, 4-Pair, Bonded, Shielded, Burial
	7928A Cat 5e, 4-Pair, Bonded, Gas Res, High + Low Temperature
	11700A Cat 5e, 4-Pair, Bonded, Upjacketed
	11700A2 Cat 5e, 4-Pair, Bonded, Upjacketed, Oil Res II
	121700A Cat 5e, 4-Pair, Bonded, Armored
	121700R Cat 5e, Bonded, Armored, -40°C Cold Impact
	7919A Cat 5e, 4-Pair, Shielded
	7921A Cat 5e, 4-Pair, Bonded, Shielded (Foil + Braid)
	7935A Cat 5e, Bonded, Low Smoke Zero Halogen
	7936A Cat 5e, Bonded, Shielded, Low Smoke Zero Halogen
	7927A Cat 6, 4-Pair, Bonded
	7931A Cat 6, 4-Pair, Bonded, Gas Res, High + Low Temperature
	11872A Cat 6, 4-Pair, Bonded, Upjacketed
121872A Cat 6, 4-Pair, Bonded, Armored	
<b>Interbus-S</b>	3119A 18/3C, 24/3 Pair, Composite
	3120A 24/3 Pair
<b>LONWORKS</b>	8471 16AWG, 1-Pair, UL AWM 2598
	8917 16AWG, 1 Cond, UL AWM 1015
	85102 16AWG, 2 Cond, VW1, Plenum Category 5e See Industrial Ethernet listing.
<b>Modbus</b>	8777 22 AWG, 3 Pair, Modem Drop Cable
	128777 Aluminum Armor (8777)
	138777 Steel Armor (8777)
	88777 FEP 200°C, Plenum (8777)
<b>Profibus DP &amp; FMS (Purple)</b>	3079A 22 AWG 300V Twinax
	3079E 22 AWG 300V Twinax, Flex Version
<b>Profibus PA (Blue)</b>	3076F 18 AWG, 2 Conductors, Type A
<b>RS-485/HART/ Can Open</b>	9841 1 Pair
	82841 1 Pair, Plenum
	89841 1 Pair, Plenum, High-Temperature
	9842 2 Pair
	82842 2 Pair, Plenum
	9843 3 Pair
	9844 4 Pair
	7200A 1 Pair, RS-485, Hi Flex
	7201A 2 Pair, RS-485, Hi Flex
	7202A 3 Pair, RS-485, Hi Flex
	7203A 4 Pair, RS-485, Hi Flex
	7206A 1 Pair, RS-485, Hi Flex
	3105A 1 Pair, RS-485 (PLTC)
	3106A 1.5 Pair, RS-485 (PLTC)
	3107A 2 Pair, RS-485 (PLTC)
3108A 3 Pair, RS-485 (PLTC)	
3109A 4 Pair, RS-485 (PLTC)	
<b>Seriplex</b>	3124A 1 Pair 18 AWG, 1 Pair 22 AWG
	3125A 1 Pair 16 AWG, 1 Pair 22 AWG
	3126A 1 Pair 16 AWG, 1 Pair 22 AWG, 1 Pair 12 AWG
	123124A Aluminum Armor (3124A)
	123125A Aluminum Armor (3125A)
	123126A Aluminum Armor (3126A)
<b>Smart Distributed System (SDS)</b>	3086A 1 Pair 16 AWG, 1 Pair 20 AWG
	3087A 2 Pairs 22 AWG

FEP = Fluorinated Ethylene-propylene

Name card blog

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