

BELDEN



HIRSCHMANN

A **BELDEN** BRAND



lumbergautomation

A **BELDEN** BRAND

Power Connectors

Industrial Connectivity Solutions



M12 Power Series

CA/CM Series

7/8", 1", 1-1/8" Series

MINI Power Series

M23 Series

ST Series

G/GO Series

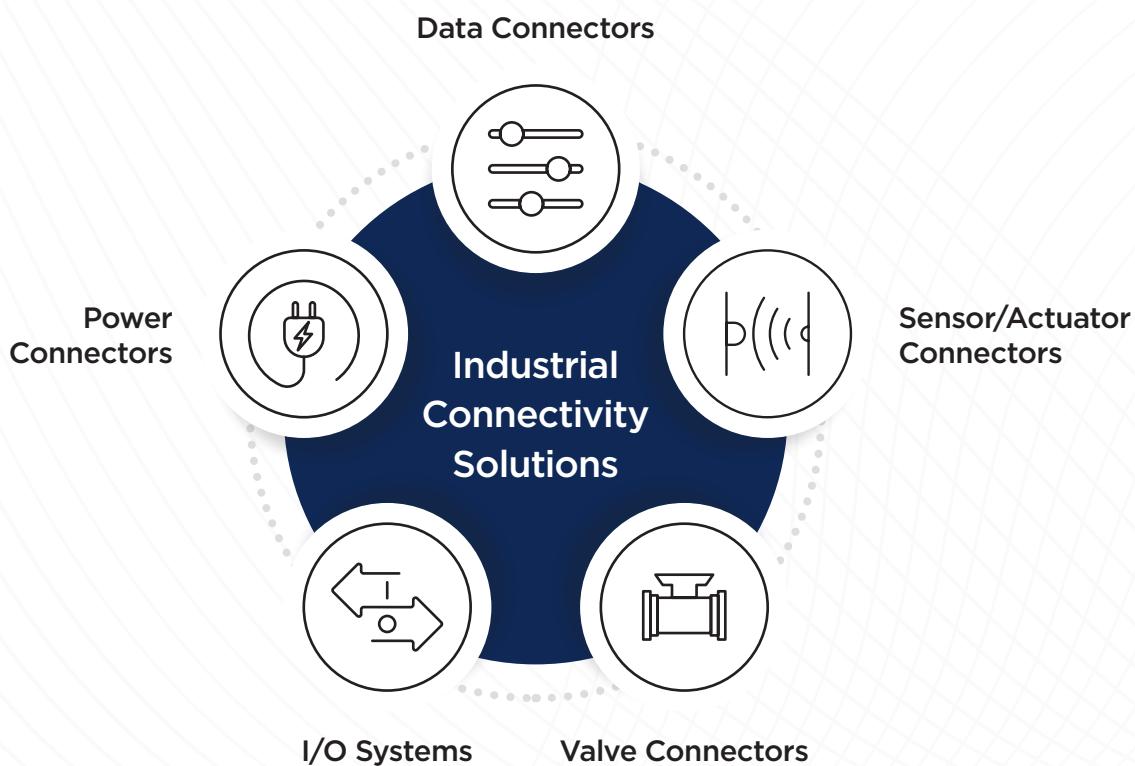


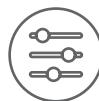
Industrial Connectivity Solutions from Belden

Founded in 1902, Belden's long-term proven solutions are in reliable operation worldwide. Our two leading brands – Hirschmann and Lumberg Automation – combine proven experience with innovation. And a focus on customer needs has made us the global leader in high-quality, end-to-end signal transmissions.

Developed with ease of use in mind, our industrial connectivity solutions are especially designed to stand up to surroundings characterized by dust, water and heavy vibrations.

Whether you want to transfer power, data, signals or all combined in the form of an intelligent I/O system, our diversified product range offers you the right solution for every application.





Power Connectors

When it comes to electrical machinery, a reliable and consistent power supply is indispensable. The choice of an appropriate power connector depends on the nature of the application as well as on your specific requirements. Ranging from design diversity to specific standards and high-voltage versions, the Belden Power portfolio offers a broad, practical selection to fulfill your individual application objectives.

Table of Contents

Industrial Connectivity Solutions from Belden.....	2
Power Connectors.....	3
Typical Applications.....	4
Product Overview.....	6
Cable Overview.....	8
Cable Material Comparison.....	10
• M12 Power Series.....	11
• CA/CM Series.....	19
• 7/8", 1", 1-1/8" Series.....	28
• MINI Power Series.....	47
• M23 Series.....	55
• ST Series.....	60
• G/GO Series.....	64
Connectivity Center.....	68

Two Strong Brands for Your Needs

 **HIRSCHMANN**
A **BELDEN** BRAND

 **lumbergautomation**
A **BELDEN** BRAND

Typical Applications

Miniaturized power connector for lighting applications like floodlights or hall lighting

M12 Power Series T-coding

Long-term proven and developed for Building Automatization such as sun blinds and roller shutters

ST Series

Well-equipped for the power supply in extraordinary harsh and dusty applications, such as industrial drilling machines

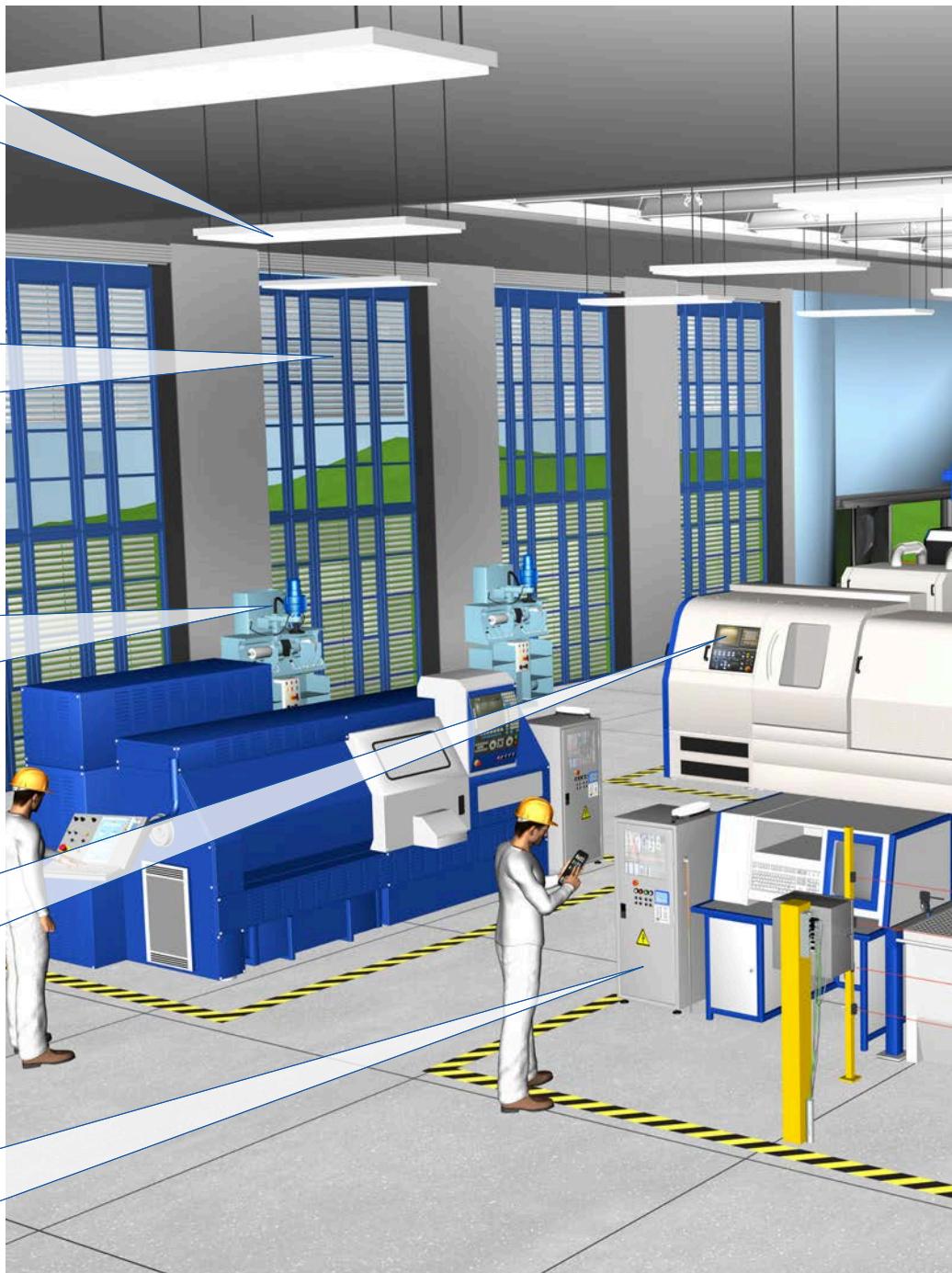
G/GO Series

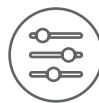
The perfect choice to interconnect machines and controls like HMIs (Human Machine Interfaces)

M23 Series

Power distribution within shop floor surroundings such as control cabinets and machines

MINI Power Series





CA/CM Series

Ideal field attachable connector as flexible solution for mobile machinery and conveyor belts

MINI Series

Reliable power supply for critical applications in industrial environments such as light barrier

M12 Power Series K-coding

Maximum power for rotary current drives also in combination with robotic systems in automated production lines

M12 Power Series S-coding

Smaller connection for high power applications such as frequency converters

M12 Power Series L-coding

Designed and engineered to use in combination with Industrial Ethernet I/O modules

Product Overview



Products	M12 Power	G/GO	CA/CM	MINI
General Data	Pin Assignment S = 4 / T = 4 K = 5 / L = 4, 5	2, 3, 4, 6, 7	CA = 4, 6 CM = 4, 5, 6, 7, 14, 17	7/8" = 2, 3, 4, 5, 6 1" = 6, 7, 8 1-1/8" = 9, 10, 12, 19
	Max. Operating Voltage 600 V AC/DC	230 V AC/DC	400 V AC/230 V DC	Up to 600 V AC/DC*
	Max. Current 16A	10A	16A AC/10A DC	12A
	IP-Rating IP65, IP67, IP69k	IP65	IP65, IP67	IP67, IP68 (2h at 10 bar)
Approvals	VDE	●	●	
	UL	●		●*
	CSA		●	●*
Assembly Design	Molded	●	●	●
	Field Attachable	●	●	●
	Receptacle	●	●	●
Key Environments	Ruggedized	●	●	●
	Mobile Equipment	●	●	●
	Outdoor		●	●
	Extreme Climate	●		
	Underwater	●		●
	Household Appliance			
Key Markets	Automotive	●		●
	Machine Building	●	●	●
	Transportation	●		●
	Automation	●	●	●
	Infrastructure	●		●
	Building Automation	●		●
	Material Handling	●	●	●

* May only apply to US version



Product Overview



Products		ST	M23	MINI Power
General Data	Pin Assignment	2, 3, 4, 5, 6	11, 12, 19	3, 4
	Max. Operating Voltage	400 V AC/230 V DC	120 V AC/DC	600 V AC/DC
	Max. Current	16A AC/10A DC	8A	42A
	IP-Rating	IP54	IP65, IP67	IP67, IP68
Approvals	VDE	●		
	UL	●		●
	CSA			●
Assembly Design	Molded	●	●	●
	Field Attachable	●	●	
	Receptacle	●	●	●
Key Environments	Ruggedized	●		●
	Mobile Equipment		●	
	Outdoor	●		
	Extreme Climate		●	
	Underwater			●
	Household Appliance	●		
Key Markets	Automotive		●	●
	Machine Building	●	●	●
	Transportation			●
	Automation	●	●	●
	Infrastructure		●	
	Building Automation	●		
	Material Handling		●	●

* May only apply to US version

Cable Overview

Control Cable	Outer Jacket Material	Jacket Color	Conductor Size	Nearest AWG	Cable Shielding	Temperature Range Stationary	Cable Characteristics
001	PVC	Orange	3 x 0.75 mm ²	18	-	-40°C to +90°C	 
002			4 x 0.50 mm ²	20	-	-40°C to +90°C	 
003			2 x 0.75 mm ²	18	-	-40°C to +90°C	 
004			5 x 0.50 mm ²	20	-	-40°C to +90°C	 
285		Yellow	12 x 0.75 mm ²	18	-	-40°C to +80°C	 
678			2 x 16 AWG	16	-	-40°C to +105°C	 
733		Black	4 x 1.5 mm ²	16	-	-40°C to +90°C	   
735			5 x 1.5 mm ²	16	-	-40°C to +90°C	  
736			5 x 0.75 mm ²	18	-	-40°C to +90°C	 
993			4 x 1.5 mm ²	16	-	-30°C to +80°C	
994			4 x 1.5 mm ²	16	Braid	-30°C to +80°C	
915			4 x 1.5 mm ²	16	Braid	-30°C to +80°C	
916			5 x 1.5 mm ²	16	Braid	-30°C to +80°C	
G Series	PUR	Grey	3 x 1.0 mm ²	17	-	-25°C to +70°C	
G Series			4 x 0.75 mm ²	18	-	-25°C to +70°C	
G Series			4 x 1.0 mm ²	17	-	-25°C to +70°C	
242	Black	Black	16x0.5mm ² /3x1.0mm ²	20/17	-	-50°C to +80°C	  
256			8x0.5mm ² /3x1.0mm ²	20/17	-	-50°C to +80°C	  
700			4 x 1.5 mm ²	16	Braid	-40°C to +125°C	
703			4 x 1.5 mm ²	16	-	-40°C to +125°C	
722			4 x 1.5 mm ²	16	Braid	-40°C to +125°C	 
723			4 x 1.5 mm ²	16	-	-40°C to +125°C	
910			5 x 1.5 mm ²	16	Braid	-40°C to +125°C	
911			5 x 1.5 mm ²	16	-	-40°C to +125°C	
912			5 x 2.5 mm ²	14	-	-40°C to +125°C	
921			5 x 2.5 mm ²	14	Braid	-40°C to +125°C	
352		Grey	16x0.5mm ² /3x1.0mm ²	20/17	Braid	-50°C to +80 °C	
949			5 x 1.5 mm ²	16	-	-40°C to +125 °C	
950			5 x 2.5 mm ²	14	-	-40°C to +125 °C	
956			5 x 1.5 mm ²	16	Braid	-40°C to +125 °C	
957			5 x 2.5 mm ²	14	Braid	-40°C to +125 °C	
355			16x0.5mm ² /3x1.0mm ²	20/17	-	-50°C to +80°C	

 **Vibration and shock resistance**

 **Oil, coolants, lubricants and emulsion resistance**

 **UL-approved**

 **Drag chain suitability**

 **UV resistance**

 **Electromagnetic resistance**



Control Cable	Outer Jacket Material	Jacket Color	Conductor Size	Nearest AWG	Cable Shielding	Temperature Range Stationary	Cable Characteristics	
731	TPE	Yellow	3 x 18 AWG	18	-	-30°C to +90°C		
637			4 x 18 AWG	18	-	-30°C to +90°C		
794			5 x 18 AWG	18	-	-30°C to +90°C		
838			3 x 16 AWG	16	-	-30°C to +90°C		
839			4 x 16 AWG	16	-	-30°C to +90°C		
996			4 x 16 AWG	16	-	-40°C to +90°C		
877			5 x 16 AWG	16	-	-30°C to +90°C		
1002			5 x 16 AWG	16	-	-40°C to +90°C		
896			6 x 16 AWG	16	-	-30°C to +90°C		
822			7 x 16 AWG	16	-	-30°C to +90°C		
898			8 x 16 AWG	16	-	-30°C to +90°C		
823			9 x 16 AWG	16	-	-30°C to +90°C		
S4677			10 x 16 AWG	16	-	-30°C to +90°C		
752			10 x 18 AWG	18	-	-30°C to +90°C		
S4678			12 x 16 AWG	16	-	-30°C to +90°C		
776			12 x 18 AWG	18	-	-30°C to +90°C		
769			19 x 18 AWG	18	-	-30°C to +90°C		
S4741	Red	Black	16x0.5mm ² /3x1.0mm ²	20/17	Braid	-50°C to +80°C		
S4740			8x0.5mm ² /3x1.0mm ²	20/17	Braid	-50°C to +80°C		
840			3 x 16 AWG	16	-	-30°C to +90°C		
841			4 x 16 AWG	16	-	-30°C to +90°C		
995			4 x 16 AWG	16	-	-40°C to +90°C		
1001			5 x 16 AWG	16	-	-40°C to +90°C		
800			3 x 10 AWG	10	-	-30°C to +90°C		
802			3 x 14 AWG	14	-	-30°C to +90°C		
803			4 x 10 AWG	10	-	-30°C to +90°C		
805			4 x 14 AWG	14	-	-30°C to +90°C		
G Series	H05RN	H05RR	2 x 0.75 mm ²	18	-	-25°C to +90°C		
ST Series	H05RR		3 x 0.75 mm ²	18	-	-25°C to +90°C		
ST Series			4 x 0.75 mm ²	18	-	-25°C to +90°C		
ST Series			5 x 0.75 mm ²	18	-	-25°C to +90°C		

Cable Material Comparison

Material	High Temp	Low Temp	Flexibility	UV-Rays	Chemicals	Oil
PUR	●●●●	●●●	●●●	●●●	●●●●	●●●
PVC	●●	●●	●●	●●●	●●●	●●
TPE	●●●	●●●●	●●●●●	●●	●●	●●●

Please request datasheet for more detailed information

● = Poor

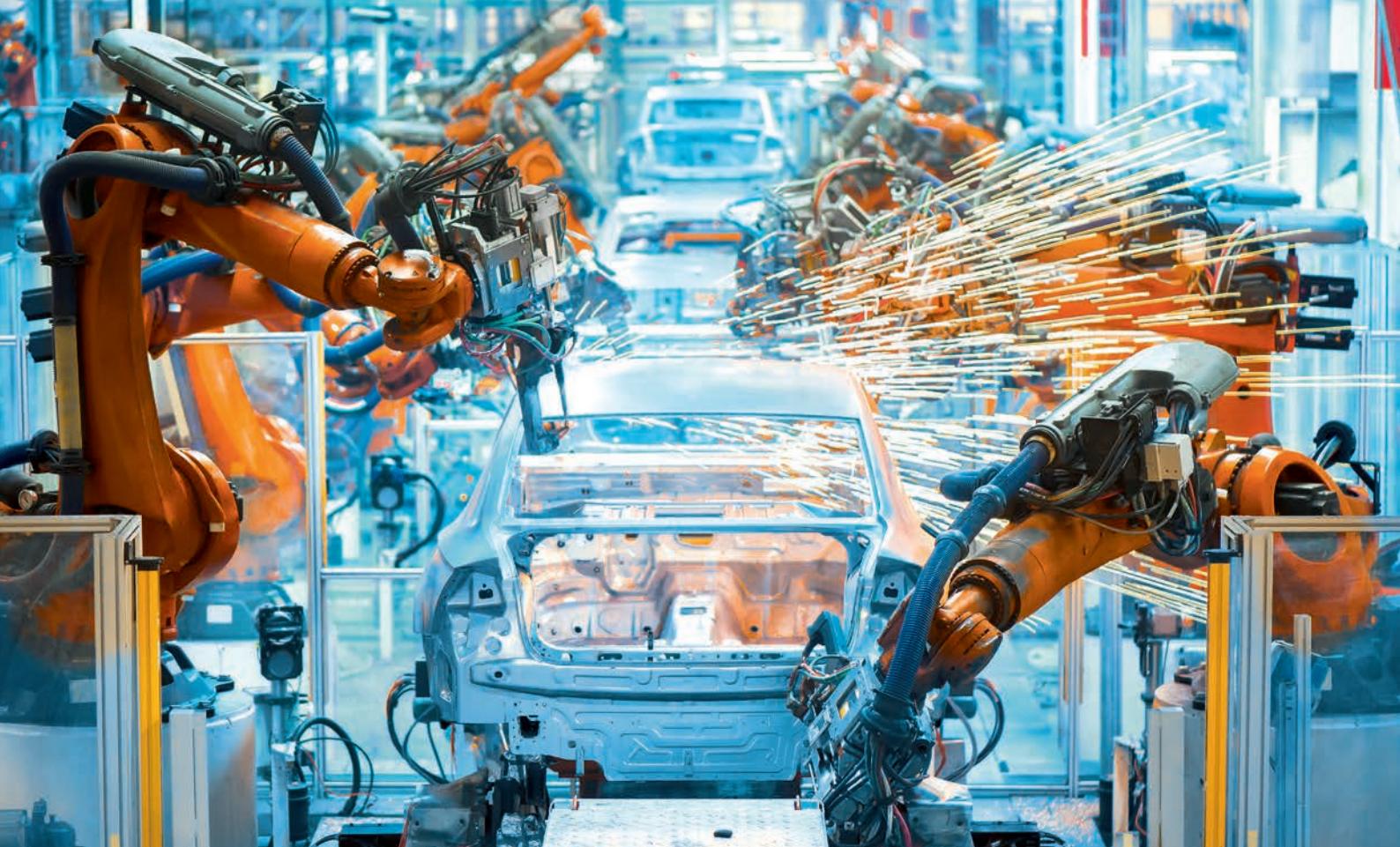
●● = Fair

●●● = Good

●●●● = Excellent

IP Code

Index		Degree of Protection	Index		Degree of Protection
0		No protection against accidental contact, no protection against solid foreign bodies	0		No protection against water
1		Protection against contact with any large area by hand and against solid foreign bodies with Ø >50 mm	1		Protection against vertical water drops
2		Protection against contact with the fingers, protection against solid foreign bodies with Ø >12 mm	2		Protection against water drops (up to a 15° angle)
3		Protection against tools, wires or similar objects with Ø >2.5 mm, protection against solid foreign bodies with Ø >2.5 mm	3		Protection against diagonal water drops (up to a 60° angle)
4		Just like 3 except for the size difference of Ø >1 mm	4		Protection against splashed water from all directions
5		Full protection against contact, protection against interior injurious dust deposits	5		Protection against water (out of a nozzle) from all directions
6		Total protection against contact, protection against penetration of dust	6		Protection against water penetration during temporary flooding
7			7		Protection against temporary submersion in water
8			8		Protection against permanent submersion in water
9K			9K		Protection against water from high-pressure/steam jet cleaners



Circular Connectors M12 Power Series

When only the Best is Good Enough – World's Strongest M12 Connector

The M12 Power Series opens the world of conventional M12 technology to high-power transmission. Carrying 16 A at 630 V it is your answer to the increasing demand for powerful connectivity in the smallest possible housings.



The Benefits

Ready for any challenge – full power in hot, wet, particularly dusty or even moving applications

Performance you can rely on – thanks to high-class material and various international approvals

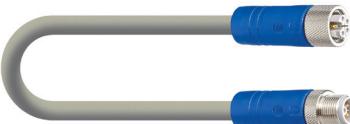
Comprehensive portfolio – four different codings to fulfill the need of almost every application

Markets

- Machine building
- Automation
- Automotive
- Material handling
- Infrastructure
- Transportation



Technical Information

M12 Power Series	S Coded	L Coded	K Coded	T Coded
				
General Data	Molded Cordset			
Type	Single (connector to blunt cut) or Double Ended (extension cord M-F)			
Gender	Male or Female			
Orientation / Shielding	Straight and Right Angled (90°) / optional Shielding tied to coupling nut			
Housing Color*	Black, Blue			
Contact Bear Color**	Coding dependent			
No. of pins	4	5	4	5
Coupling Nut	Copper Zinc / Nickel Plated, optional Stainless Steel on request			
Electrical Data				
Operating Voltage	600 V AC/DC	50 V AC/63 V DC	50 V AC/63 V DC	600 V AC/DC
Current	16A	16A	16A	16A
Environmental Data				
Ambient Temperature*	-40°C to +125°C			
Protection Degree	IP65, IP67, IP69k			
Approvals	VDE, UL			

* Notice derating and cable temperature



Technical Information

M12 Power Series	S Coded	L Coded	K Coded	T Coded	
					
		Field Attachable			
Type		PG 11			
Gender		Male or Female			
Orientation / Shielding		Straight / Shielded			
Housing Color*		Copper Zinc / Nickel Plated			
Contact Bear Color**		Coding dependent			
Termination Style	4	5	5	4	
Coupling Nut	Screw	Crimp	Crimp	Screw	
					
Operating Voltage	600 V AC/DC	50 V AC/63 V DC	600 V AC/DC	50 V AC/63 V DC	
Current	16A	16A	16A	16A	
					
Ambient Temperature*	-40°C to +125°C				
Protection Degree	IP65, IP67, IP69k				
Approvals	VDE, UL				

* Notice derating and cable temperature



Technical Information

M12 Power Series	S Coded	L Coded	K Coded	T Coded
				
General Data	Receptacle			
Type	Single (connector to fly leads)			
Gender	Male or Female			
Orientation / Shielding	Front Mount, Rear Mount, Surface Mount			
Housing Color*	Copper Zinc / Nickel Plated			
Contact Bear Color**	Coding dependent			
No. of pins	4	5	4	5
Coupling Nut	M16, Flange			
Electrical Data				
Operating Voltage	600 V AC/ DC	50 V AC/63 V DC	50 V AC/63 V DC	600 V AC/ DC
Current	16A	16A	16A	16A
Environmental Data				
Ambient Temperature*	-40°C to +125°C			
Protection Degree	IP65, IP67, IP69k			
Approvals	VDE, UL			

* Notice derating and cable temperature



Accessories

M12 Power Series

			
Crimp Range	Male Crimp Pin	Female Crimp Socket	Female Crimp Socket PE
0.75 mm ²	738385001	738387001	738387011
1.5 mm ²	738385002	738387002	738387012
2.5 mm ²	738385003	738387003	738387013
Crimp Tool	 Part number 932507005 [XZC 0704]		
Torque Wrench	 Part Number 62068 [DMWKZ]		
Torque Wrench Attachment	 Part Number 62072 [DMEWKZ 12]		



Product Configurator

Cordsets

Gender and Design

RST	= Male cordset, molded, 0°
RSWT	= Male cordset, molded, 90°
RKT	= Female cordset, molded, 0°
RKWT	= Female cordset, molded, 90°

Shielding

S = 360° Shielding Blank = No Shielding

Coding & Pin Assignment

5K = K-coding, 5-pole (4+PE) 4S = S-coding, 4-pole (3+PE) 4L = L-coding, 4-pole
5L = L-coding, 5-pole (4+FE) 4T = T-coding, 4-pole

Insertion point for double ended (repeat steps above)

Female connector is always in second prefix of nomenclature

R S T S 4S -- 733 / 2M

Cable Style

S- Coding Cables	L- Coding Cables	K- Coding Cables
733 = 4x1.5 mm ² , PVC, Black	993 = 4x1.5 mm ² , PVC, Black	736 = 5x0.75 mm ² , PVC, Black
703 = 4x1.5 mm ² , PUR, Black	994 = 4x1.5 mm ² , shielded, PVC, Black	735 = 5x1.5 mm ² , PVC, Black
915 = 4x1.5 mm ² , shielded, PVC, Black	995 = 4x1.5 mm ² , TPE, Black	912 = 5x2.5 mm ² , PVC, Black
700 = 4x1.5 mm ² , shielded, PUR, Black	996 = 4x1.5 mm ² , TPE, Yellow	911 = 5x1.5 mm ² , PUR, Black
	723 = 4x1.5 mm ² , PUR, Black	916 = 5x1.5 mm ² , shielded, PVC, Black
T- Coding Cables		
722 = 4X1.5 mm ² , shielded, PUR, Black	722 = 4x1.5 mm ² , shielded, PUR, Black	921 = 5x2.5 mm ² , shielded, PVC, Black
723 = 4X1.5 mm ² , PUR, Black	1000 = 5x1.5 mm ² , TPE, Black	910 = 5x1.5 mm ² , shielded, PUR, Black
	1003 = 5x1.5 mm ² , TPE, Yellow	
	950 = 5x2.5 mm ² , PUR, Grey	
	949 = 5x1.5 mm ² , PUR, Grey	
	950 = 5x2.5 mm ² , PUR, Grey	
	956 = 5x1.5 mm ² , shielded, PUR, Grey	
	957 = 5x2.5 mm ² , shielded, PUR, Grey	

Other cable styles available upon request. Please contact: icos-sales@belden.com

Cable Length

xM = Length in meters

0.2 M = 0.2 Meters, 2 M = 2 Meters , 20 M = 20 Meters



(S) only required in description when selecting a shielded cable

Replace xx with number of poles followed by coding (S, T, L, or K)
Add SW at the need of article description for black overmold body



Product Configurator

Receptacles

Gender

RS = Male RK = Female

Housing Design

Brass Housing **Stainless Steel Housing**

H = Rear Mount B = Rear Mount*

F = Front Mount N = Front Mount*

P = Positionable Front Mount J = Positionable Front Mount*

A = Flange Mount Q = Flange Mount*

Note: "*" on special request only, MOQ may apply

R S F 6 S 5L - 033 / 2.5M

Thread Type

6 = M16x1.5

0 = Flange Mount

Shielding

S = Yes U = No

Coding & Pin Assignment

5K = K-coding, 5-pole (4+PE) 4S = S-coding, 4-pole (3+PE) 4L = L-coding, 4-pole

5L = L-coding, 5-pole (4+FE) 4T = T-coding, 4-pole

Hookup Wire

033 = 1.5mm²

034 = 2.5mm²*

Cable Length

xM = Length in meters

0.2 M = 0.2 Meters, 2 M = 2 Meters, 2.5 M = 2.5 Meters

Receptacle Nomenclature

Male		Female	
Front Mount	Rear Mount	Front Mount	Rear Mount
			
RSFxx xx-xxx	RSHxx xx-xxx	RKFxx-xx-xxx	RKHxx-xx-xxx
Front Mount Positionable	Flange Mount	Front Mount Positionable	
			
RSPxx xx-xxx	RSAXxx-xx-xx	RKPxx-xx-xxx	

See configurator above for more details for selection correct sequence for "x" in description



Product Configurator

Field Attachables

Gender and Design

L & K Coding only (Crimp Termination) S & T Coding only (Screw Termination)

RSCCS = Male connector, field attachable, 0°

RSCS = Male connector, field attachable, 0°

RKCCS = Female connector, field attachable, 0°

RKCS = Female connector, field attachable, 0°

Note: All connector bodies 360° shieldable with applicable cable

Coding & Pin Assignment

5K = K-coding, 5-pole (4+PE)

4S = S-coding, 4-pole (3+PE)

5L = L-coding, 5-pole (4+FE)

4T = T-coding, 4-pole

Cable Gland

11 = PG II

Contact Screw

Blank = screw termination only 1,5 1.5 mm² crimp-contact

0,75* 0.75 mm² crimp-contact 2,5 2.50 mm² crimp-contact

*note: on special request only

Field Attachable Nomenclature

Male	Female
Straight	Straight
 RSCxS xx	 RKCxS xx

See configurator above for more details for selection correct sequence for "x" in description



Circular Connectors CA/CM Series

Reliable Power Transmission – where you need it, when you need it

Combining the advantages of a lightweight plastic housing with the mechanical robustness of an industrial connector, the CA Series represents a reliable solution for the most demanding applications.



The Benefits

Ruggedized for performance

– well-proven power supply for wet, dusty and harsh surroundings

Intuitive to handle – thanks to user-friendly termination and assembly in a jiffy

Versatile to use – technologically convincing connectivity solution for a wide range of applications

Markets

- Machine building
- Measurement and control
- Automation
- Logistics
- Infrastructure
- Material handling

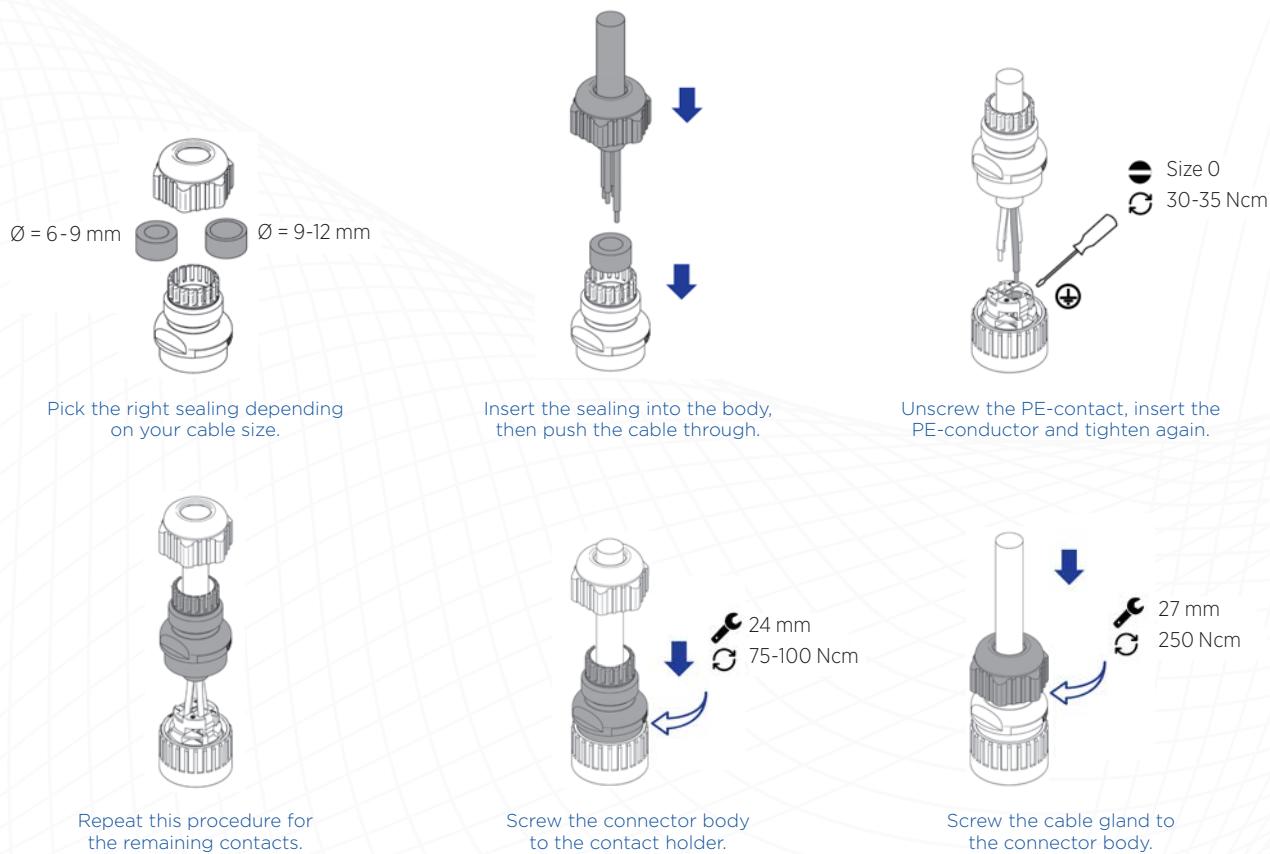


Technical Information

CA Series

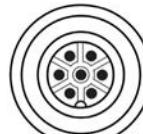
	3+PE Pole	6+PE Pole
		
Cable Entry Size / Ø Jacket Range	Cable Entry SW 27 (Ø 6 -12 mm)	
Gender	Male or Female	
Orientation	Straight or Angled	
Housing Material / Color	PA 66-GF 25 / Black, Red, Blue, Green, White	
Contact Bear Color**	Black	
No. of pins	4	7
Coupling Nut	PA 66-GF 25	
		
Operating Voltage	400 AC V / 250 V DC	250 V AC/DC
Current	10A DC / 16A AC	10A
		
Ambient Temperature*	-40°C to +90°C	
Protection Degree	IP67	
Approvals	UL, VDE	

CA Series – intuitive assembly in a jiffy



Technical Information

CA Series

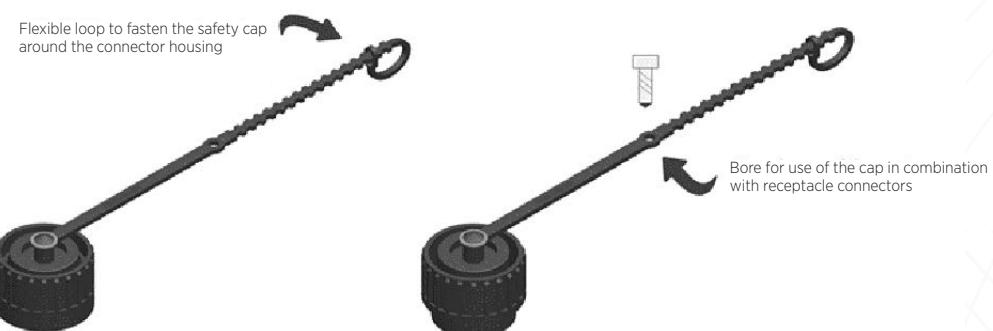
	3+PE Pole	6+PE Pole
		
General Data	Receptacle	
Type	Surface Mount Receptacle	
Gender	Male or Female	
Orientation	Straight	
Housing Material*	PA 66-GF 25	
Contact Bear Color**	Black	
No. of pins	4	7
Coupling Nut	PA 66-GF 25	
	Electrical Data	
Operating Voltage	400 AC V / 250 V DC	250 V AC/DC
Current	10A DC / 16A AC	10A
	Environmental Data	
Ambient Temperature*	-40°C to +90°C	
Protection Degree	IP67	
Approvals	UL , VDE	

CA Series

	Internal Thread	External Thread
		

Accessories

Article # / Description	831530400 / CA 00 SD 1	831532400 / CA 00 SD 3
-------------------------	------------------------	------------------------





Product Configurator

Field Attachable and Receptacles

Series Indicator

CA = CA Series

Pin Assignment

3 = 4 Pole [3+PE]

6 = 7 Pole [6+PE]

Geometry Design

BLANK = Straight

W = 90° Angled

Gender | Design

LS = Field Attachable, Male Connector

LD = Field Attachable, Male Connector

GS = Receptacle, Male Connector

GD = Receptacle, Female Connector

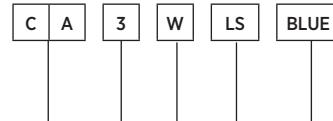
Housing | Contact Holder Color

BLACK = Black Housing

BLUE = Blue Housing

RED = Red Housing

WHITE = White Housing



Technical Information

CM Series	4	5	6	6+PE
				
General Data	CM 06 EA 14S-2 S	CM 06 EA 14S-5 S	CM 06 EA 14S-6 S	CM 06 EA 14S-61 S
Cable Entry Size / Ø Jacket Range	PG 11 (Ø8-10mm)	PG 11 (Ø8-10mm)	PG 11 (Ø8-10mm)	PG 11 (Ø8-10mm)
Gender	Female			
Orientation	Straight			
Housing Color*	Black			
Contact Bear Color**	Black			
No. of pins	4	5	6	7
Coupling Nut	Plastic			
Electrical Data				
Operating Voltage	50 V AC/DC	50 V AC/DC	50 V AC/DC	50 V AC/DC
Current	10A	10A	10A	10A
Environmental Data				
Ambient Temperature*	-40°C to +90°C			
Protection Degree	IP67			
Approvals				



Technical Information

CM Series	4	5	6	6+PE
				
General Data	CM 02 E 14S-2 P	CM 02 E 14S-5 P	CM 02 E 14S-6 P	CM 02 E 14S-61 P
Type	Surface Mount Receptacle			
Gender	Male			
Orientation	Flange Mount			
Housing Color*	Black			
Contact Bear Color**	Black			
No. of pins	4	5	6	7
Max Wire Size	1 mm ²	1 mm ²	1 mm ²	1 mm ²
Electrical Data				
Operating Voltage	50 V AC/DC	50 V AC/DC	50 V AC/DC	50 V AC/DC
Current	10A	10A	10A	10A
Environmental Data				
Ambient Temperature*	-40°C to +90°C			
Protection Degree	IP67			
Approvals				



Technical Information

CM Series

	7	14	17
			
General Data	CM 06 EA 20-7 S	CM 06 EA 20-27 S	CM 06 EA 20-29 S
Cable Entry Size / Ø Jacket Range	PG 13.5 (Ø8-10mm)	PG 13.5 (Ø8-10mm)	PG 13.5 (Ø8-10mm)
Gender		Female	
Orientation		Straight	
Housing Color*		Black	
Contact Bear Color**		Black	
No. of pins	7	14	17
Coupling Nut		Plastic	
	Electrical Data		
Operating Voltage	50 V AC/DC	50 V AC/DC	50 V AC/DC
Current	10A	5A	4A
	Environmental Data		
Ambient Temperature*		-40°C to +90°C	
Protection Degree		IP67	
Approvals			

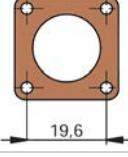
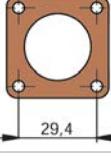


Technical Information

CM Series	7	14	17
			
General Data	CM 02 E 20-7 P	CM 02 E 20-27 P	CM 02 E 20-29 P
Type	Surface Mount Receptacle		
Gender	Male		
Orientation	Straight		
Housing Color*	Black		
Contact Bear Color**	Black		
No. of pins	7	14	17
Coupling Nut	Plastic		
Electrical Data			
Operating Voltage	50 V AC/DC	50 V AC/DC	50 V AC/DC
Current	10A	5A	4A
Environmental Data			
Ambient Temperature*	-40°C to +90°C		
Protection Degree	IP67		
Approvals			

Technical Information

CM Series

Accessories		
Description	CA 02 SD 14S mates to male 4, 5, 6, 6+PE	CA 06 SD 14S mates to female 4, 5, 6, 6+PE
Description	CA 02 SD 20 mates to male 7, 8, 14, 17	CA 06 SD 20 mates to female 7, 8, 14, 17
	 19,6	 29,4
Description	CM 02 D 14S Panel side gasket to for 4, 5, 6, 6+PE	CM 02 D 20 Panel side gasket to for 7, 8, 14, 17



Circular Connectors 7/8", 1", 1-1/8" Series

30+ Years on the Job

The MINI circular connectors provide a wide variety of options for most industrial application environments. Available in pin configurations from 2 - 10, 12 and 19, these connectors provide a great alternative over traditional hardwiring methods thanks to the quick disconnect solution.



The Benefits

Feel the difference – high-quality material ensuring a long lifetime and exceptional operational reliability

Reduced downtime during maintenance

Faster productivity during commissioning by eliminating hard wiring

Worldwide valued – internationally standardized interface for global usage

Great variety – a wide range of versions offers flexible connection solutions

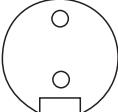
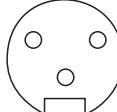
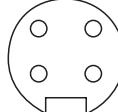
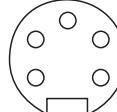
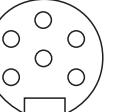
Markets

- Machine building
- Automation
- Material handling
- Automotive



Technical Information

7/8" US Style

	2-Pole	3-Pole	4-Pole	5-Pole	6-Pole
					
General Data	Molded Cordset				
Type	Single (connector to blunt cut) or Double Ended (extension cord M-F)				
Gender	Male or Female				
Orientation	Straight and Right Angled (90°)				
Housing Color*	Yellow, Orange, Black, Grey, Red				
Contact Bear Color**	Yellow, Orange, Grey				
No. of pins	2	3	4	5	6
Coupling Nut	Plastic, Aluminum, Stainless Steel (male side available internal or external thread)				
Cable Data					
Jacket Type / Color	TPE, PVC, PUR / Yellow				
AWG Size [cross section]	20 AWG [0.5mm ²] - 16 AWG [1.5mm ²]				
Electrical Data					
Operating Voltage	Up to 600 V AC/ DC				
Current	12A	10A	10A	8A	5A
Environmental Data					
Ambient Temperature*	-40°C to +90°C				
Protection Degree	IP68 (2h, 10 bar)				
Approvals	UL				





Product Configurator

7/8" Cordsets US Style

Gender and Design

RS = Male cordset, molded, 0°	RSRK = Male, Molded, 0°, to Female, Molded, 0°
RSW = Male cordset, molded, 90°	RSWRK = Male, Molded, 90°, to Female, Molded, 0°
RK = Female cordset, molded, 0°	RSRKW = Male, Molded, 0°, to Female, Molded, 90°
RKW = Female cordset, molded, 90°	RSWRKW = Male, Molded, 90°, to Female, Molded, 90°

Coding & Pin Assignment

20 = 2 pole, male or female (male external thread)	201 = 2 pole, male or female (male internal thread)
30 = 3 pole (2+PE), male or female (male external thread)	301 = 3 pole (2+PE), male or female (male internal thread)
40 = 4 pole, male or female (male external thread)	401 = 4 pole, male or female (male internal thread)
50 = 5 pole (4+PE), male or female (male external thread)	501 = 5 pole (4+PE), male or female (male internal thread)
60A = 6 pole (5+PE), male or female (male external thread)	601A = 6 pole (5+PE), male or female (male internal thread)

Note: US version standard with aluminum coupling nut, plastic or stainless steel coupling nut available on request

Cable Style

678 = YELLOW, PVC, 2 x 16 AWG, US, STOW	637 = YELLOW, TPE, 4 x 18 AWG, IEC, PLTC
603 = YELLOW, PVC, 2 x 18 AWG, IEC, AWM 20233	602 = YELLOW, PUR, 4 x 18 AWG, IEC, AWM 20233
731 = YELLOW, TPE, 3 x 18 AWG, IEC, PLTC	839 = YELLOW, TPE, 4 x 16 AWG, US, TC-ER
601 = YELLOW, PVC, 3 x 18 AWG, EURO AC, AWM 2661	841 = RED, TPE, 4 x 16 AWG, US, TC-ER
645 = YELLOW, PUR, 3 x 18 AWG, IEC, AWM 20233	794 = YELLOW, TPE, 5 x 18 AWG, IEC, PLTC
838 = YELLOW, TPE, 3 x 16 AWG, US, TC-ER	877 = YELLOW, TPE, 5 x 16 AWG, US, TC-ER
840 = RED, TPE, 3 x 16 AWG, US, TC-ER	896 = YELLOW, TPE, 6 x 16 AWG, US, TC-ER

Other cable styles available upon request. Please contact: icos-sales@belden.com

Cable Length

xM = Length in meters

0.2 M = 0.2 Meters, 2 M = 2 Meters, 20 M = 20 Meters

Housing Color

Blank = Yellow housing

R = Red Housing

Blank, Grey on Request

** Standard overmold body color is yellow or orange

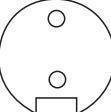
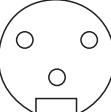
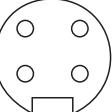
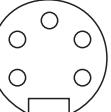
Single End Nomenclature			Double End Nomenclature			
Male		Female	Male to Female Extension Cable			With Male Internal Thread to Female
External Thread	Internal Thread	Internal Thread	Male External Thread to Female			
						
RS x0	RS x01-	RK x0-	RSRK x0-	RSRKW x0-	RSRK x01-	RSRKW x0-
						
RSW x0-	RSW x01-	RKW x0-	RSWRK x0-	RSWRKW x0-	RSWRK x01-	RSWRKW x01-

Replace "x" with number of poles



Technical Information

7/8" US Style

	2-Pole	3-Pole	4-Pole	5-Pole	6-Pole
					
General Data			Receptacle		
Type			Single (connector to fly leads)		
Gender			Male or Female		
Orientation / Mounting Thread			Front Mount / 1/2" NPT, [Rear Mount available on request]		
Housing Material			Aluminum, Anodized, [Stainless Steel on request]		
Contact Bear Color			Yellow		
No. of pins	2	3	4	5	6
Locking Nut			Steel, Zinc plated		
Wire Data					
Color Code			US Standard, IEC, Automotive, Numeric		
AWG Size [cross section]			20 AWG [0.5mm ²] - 16 AWG [1.5mm ²]		
Electrical Data					
Operating Voltage			Up to 600 V AC/DC		
Current	12A	10A	10A	8A	5A
Environmental Data					
Ambient Temperature*			-40°C to +90°C		
Protection Degree			IP68		
Approvals			UL		





Product Configurator

7/8" Receptacle (US Style)

Gender and Design

RSF = Male Receptacle, 1/2 inch NPT front mount

RKF = Female Receptacle, 1/2 inch NPT front mount

Coding & Pin Assignment

20 = 2 pole, female (female internal thread)	201 = 2 Pole, male or female (female external thread)
30 = 3 pole, female (female internal thread)	301 = 3 Pole, male or female (female external thread)
40 = 2 pole, female (female internal thread)	401 = 2 Pole, male or female (female external thread)
50 = 3 pole, female (female internal thread)	501 = 3 Pole, male or female (female external thread)
60A = 2 pole, female (female internal thread)	601A = 2 Pole, male or female (female external thread)

Stranded Wire Style

678 = Stranded Conductors, 2 x 16 AWG, US Color Coded	693 = Stranded Conductors, 4 x 18 AWG, IEC Color Coded
695 = Stranded Conductors, 3 x 18 AWG, IEC Color Coded	639 = Stranded Conductors, 4 x 16 AWG, US Color Coded
603 = Stranded Conductors, 3 x 18 AWG, EURO AC Color Coded	694 = Stranded Conductors, 5 x 18 AWG, IEC Color Coded
638 = Stranded Conductors, 3 x 16 AWG, US Color Coded	677 = Stranded Conductors, 5 x 16 AWG, US Color Coded
	696 = Stranded Conductors, 6 x 16 AWG, US Color Coded

Other cable styles available upon request. Please contact: icos-sales@belden.com

Cable Length

xM = Length in meters

0.5 M = 0.5 Meters, 1.5 M = 1.5 Meters

Receptacle Nomenclature

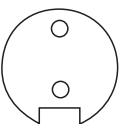
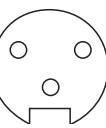
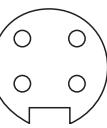
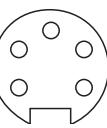
Receptacle Nomenclature		
External Thread	Internal Thread	External Thread
 RSF x0-	 RKF x0-	 RKF x01-

Replace "x" with number of poles



Technical Information

7/8" European Style

	2-Pole	3-Pole	4-Pole	5-Pole
				
General Data	Molded Cordset			
Type	Single (connector to blunt cut) or Double Ended (extension cord M-F)			
Gender	Male or Female			
Orientation	Straight and Right Angled (90°)			
Housing Color	Orange, [Black on request]			
Contact Bear Color	Orange, [Grey on request]			
No. of pins	2	3	4	5
Coupling Nut	Plastic (male side available only in external thread)			
Cable Data				
Jacket Type / Color	PVC / Orange			
AWG Size [cross section]	0.75mm ²	0.75mm ²	0.50mm ²	0.50mm ²
Electrical Data				
Rated Voltage	250 V AC/DC			
Current	12A	12A	9A	9A
Environmental Data				
Ambient Temperature*	-40°C to +90°C			
Protection Degree	IP68			



Product Configurator

7/8" Cordsets European Style

Gender and Design

RS = Male cordset, molded, 0°
 RSW = Male cordset, molded, 90°
 RK = Female cordset, molded, 0°
 RKW = Female cordset, molded, 90°
 RSRK = Male, Molded, 0°, to Female, Molded, 0°
 RSWRK = Male, Molded, 90°, to Female, Molded, 0°
 RSRKW = Male, Molded, 0°, to Female, Molded, 90°
 RSWRKW = Male, Molded, 90°, to Female, Molded, 90°

RS RKW 30 - 01 / 2M

Coding & Pin Assignment

20 = 2 pole, male or female (male external thread)
 30 = 3 pole (2+PE), male or female (male external thread)
 40 = 4 pole, male or female (male external thread)
 50 = 5 pole (4+PE), male or female (male external thread)
 Note: EMEA version include plastic coupling nut as standard. Aluminum version available on request

Cable Style

EMEA Options

03 = ORANGE, PVC, 2 G 0.75 mm², IEC
 01 = ORANGE, PVC, 3 x 0.75 mm², IEC
 02 = ORANGE, PVC, 4 x 0.50 mm², IEC
 04 = ORANGE, PVC, 5 x 0.50 mm², IEC

Note: EMEA vs US options only to indicate manufacturing location. All products available globally

Other cable styles available upon request. Please contact: icos-sales@belden.com

Cable Length

xM = Length in meters

0.2 M = 0.2 Meters, 2 M = 2 Meters, 20 M = 20 Meters

** Standard overmold body color is orange

Single End Nomenclature		Double End Nomenclature	
Male	Female	Male External Thread to Female	
External Thread	Internal Thread	With Male External Thread to Female	
RS x0-xxx	RK x0-	RSRK x0-	RSRKW x0-
RSW x0-	RKW x0-	RSWRK x0-	RSWRKW x0-

Replace "x" with number of poles, see product configurator for details



Technical Information

7/8" European Style

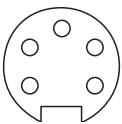
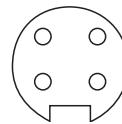
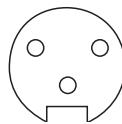
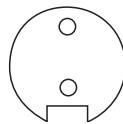


2- Pole

3- Pole

4- Pole

5- Pole



General Data

Receptacle

Type Single (connector to fly leads)

Gender Male or Female

Orientation / Mounting Thread Front Mount / PG 11, PG 13.5

Housing Material* CuZn nickel plated

Contact Bear Color** Orange

No. of pins 2 | 3 | 4 | 5

Locking Nut Steel, Zinc plated



Wire Data

IEC

Color Code | AWG Size [cross section] 0.75mm² | 0.75mm² | 0.5mm² | 0.5mm²



Electrical Data

Rated Voltage Up to 250 V AC/ DC

Current 9A | 9A | 9A | 9A



Environmental Data

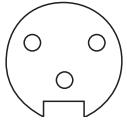
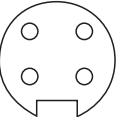
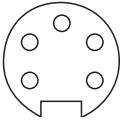
Ambient Temperature* -25°C to +90°C

Protection Degree IP68



Technical Information

7/8" Series

	3- Pole	4- Pole	5- Pole
			
General Data		Field Attachables	
Type		Cable Entry PG9, PG 11, PG 13.5, PG 16	
Gender		Male or Female	
Orientation		Straight	
Housing Material*		PA 66	
Contact Bear Color**		Black	
No. of pins	3	4	5
Type of Connection		Screw	
Coupling Nut		Aluminum, Stainless Steel	
Cable Data			
Suitable Cables	PG 9 [Ø 6mm - 8mm], PG 11 [Ø 8mm - 10mm], PG 13 [Ø 10mm - 12mm], PG16 [Ø 12mm - 14mm]		
Conductor Cross Section	Max 1.5 mm ²		
			
Electrical Data			
Operating Voltage	Up to 600 V AC/ DC for US market , 230 V AC/DC for European version		
Current	12A	9A	9A
			
Environmental Data			
Ambient Temperature*	-40°C to +90°C		
Protection Degree	IP67		
Approvals	UL		



Product Configurator

7/8" Receptacle European Style

Gender and Design

RSF = Male Receptacle

RKF = Female Receptacle

Coding & Pin Assignment

20 = 2 pole, male w/ external thread or female w/ internal thread

30 = 3 pole, male w/ external thread or female w/ internal thread

40 = 4 pole, male w/ external thread or female w/ internal thread

50 = 5 pole, male w/ external thread or female w/ internal thread

Housing

11 = PG 11 Front Mount 13.5 = PG 13.5 Front Mount

Stranded Wire Style

03 = Stranded Conductors, 2x0.75mm², IEC Color Coded 02 = Stranded Conductors, 4x0.50mm², IEC Color Coded

01 = Stranded Conductors, 3x0.75mm², IEC Color Coded 04 = Stranded Conductors, 5x0.50mm², IEC Color Coded

Other cable styles available upon request. Please contact: icos-sales@belden.com

RKF 50 / 13.5 - 4 / 1.5M

Cable Length

Blank = 0.3 Meters

xM = Length in meters

0.5 M = 0.5 Meters, 1.5 M = 1.5 Meters

7/8" Field Attachable

Gender and Design

RSC = Male, Screw Terminal, 0°

RSCN = Male, Screw Terminal, 0°, Stainless Steel Coupling Nut

RKC = Female, Screw Terminal, 0°

RKCN = Female, Screw Terminal, 0°, Stainless Steel Coupling Nut

RKC 301 / 11

Coding & Pin Assignment

Female Internal Thread or Male External Thread Male Internal Thread

30 = 3 pole (2+PE), male or female 301 = 3 pole (2+PE), male internal thread

40 = 4 pole (3+PE), male or female 401 = 4 pole (3+PE), male internal thread

50 = 5 pole (4+PE), male or female 501 = 5 pole (4+PE), male internal thread

Cable Style

Cable Gland Size

9 = PG 9 (Ø 6-8 mm) 13.5 = PG 13.5 (Ø 10-12 mm)

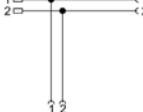
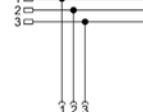
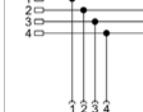
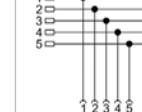
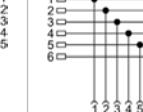
11 = PG 11 (Ø 8-10 mm) 16 = PG 16 (Ø 12-14 mm)

Receptacle Nomenclature		Field Attachable Nomenclature		
Male	Female	Male	Male	Female
External Thread	Internal Thread	External Thread	Internal Thread	Internal Thread
				
RSF x0-	RKF x0/	RSC x0	RSC x01-	RKC x0-

Replace "x" with number of poles

Technical Information

7/8" Series

	2-Pole	3-Pole	4-Pole	5-Pole	6-Pole	
						
	General Data	0906 UTP 315	0906 UTP 313	0906 UTP 312	0906 UTP 316	0906 UTP 319
	Type			Splitter		
	Gender			1 Male x 2 Female		
	Orientation			T connector		
	Housing Material*			TPU		
	Contact Bear Color**			Yellow		
	No. of pins	2	3	4	5	6
	Coupling Nut			Aluminum, anodized black		
	Electrical Data					
	Operating Voltage			Up to 600 V AC/DC		
	Current	12A	8A	8A	8A	5A
	Environmental Data					
	Ambient Temperature*			-40°C to +90°C		
	Protection Degree			IP68 (2h, 10 bar)		

0906 UTP 315	0906 UTP 313	0906 UTP 312	0906 UTP 316	0906 UTP 319
				

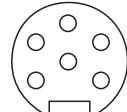
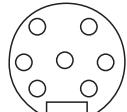
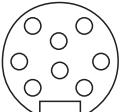


Technical Information

7/8" Series

	2-Pole	3-Pole	4-Pole	5-Pole	6-Pole
	1 □ --- <1 2 □ --- <2	1 □ --- <1 2 □ --- <2 3 □ --- <3	1 □ --- <1 2 □ --- <2 3 □ --- <3 4 □ --- <4	1 □ --- <1 2 □ --- <2 3 □ --- <3 4 □ --- <4 5 □ --- <5	1 □ --- <1 2 □ --- <2 3 □ --- <3 4 □ --- <4 5 □ --- <5 6 □ --- <6
General Data					
Type	Feed Through Adaptor for Enclosure				
Gender	1 Male x 1 Female				
Orientation	Straight				
Housing Material*	Brass, nickel plated				
Material / Contact Bear	TPU / Yellow				
Color*					
No. of pins	2	3	4	5	6
Panel Nut	Steel, zinc plated				
Electrical Data					
Operating Voltage	Up to 600 V AC/DC				
Current	12A	8A	8A	8A	8A
Environmental Data					
Ambient Temperature*	-40°C to +90°C				
Protection Degree	IP68 (2h, 10 bar)				
0906 UAC 300	0906 UAC 301	0906 UAC 302	0906 UAC 303	0906 UAC 304	
					

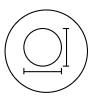
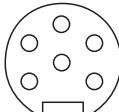
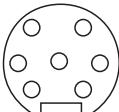
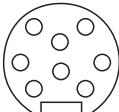
Technical Information

1" Series	6- Pole	7- Pole	8- Pole		
					
General Data		Cordset			
Type	Single (connector to blunt cut) or Double Ended (extension cord M-F)				
Gender	Male or Female				
Orientation	Straight				
Housing Color*	Yellow				
Contact Bear Color**	Yellow				
No. of pins	6	7	8		
Coupling Nut	Aluminum, Stainless Steel (male side available internal or external thread)				
Electrical Data					
Operating Voltage	Up to 600 V AC/ DC				
Current	8A	8A	7A		
Environmental Data					
Ambient Temperature*	-40°C to +90°C				
Protection Degree	IP68 (2h, 10 bar)				
Approvals					



Technical Information

1" Series

	6-Pole	7-Pole	8-Pole
			
General Data		Receptacle	
Type		Single (connector to fly leads)	
Gender		Male or Female	
Orientation/ Mounting Thread		Front Mount/ 1/2" NPT	
Orientation		Aluminum, anodized clear	
Contact Bear Color**	Yellow		
No. of pins	6	7	8
Locking Nut		Steel, Zinc plated	
	Electrical Data		
Operating Voltage		Up to 600 V AC/ DC	
Current	8A	8A	7A
	Environmental Data		
Ambient Temperature*		-40°C to +90°C	
Protection Degree		IP68 (2h, 10 bar)	



Product Configurator

1" Cordsets

Gender and Design

RS = Male cordset, molded, 0° RSRK = Male, Molded, 0°, to Female, Molded, 0°
RK = Female cordset, molded, 0°

Coding & Pin Assignment

60B = 6 pole (5+PE), male or female (male external thread) 601B = 6 pole (5+PE), male or female (male internal thread)
70M = 7 pole (5+PE), male or female (male external thread) 701M = 7 pole (6+PE), male or female (male internal thread)
80M = 8 pole (7+PE), male or female (male external thread) 801M = 8 pole (7+PE), male or female (male internal thread)
Note: US version standard with aluminum coupling nut, stainless steel coupling nut available on request

Cable Style

896 = YELLOW, TPE, 6 x 16 AWG, US, TC-ER
822 = YELLOW, TPE, 7 x 16 AWG, US, TC-ER
898 = YELLOW, TPE, 8 x 16 AWG, US, TC-ER
Other cable styles available upon request. Please contact: icos-sales@belden.com

Cable Length

xM = Length in meters
0.2 M = 0.2 Meters, 2 M = 2 Meters, 20 M = 20 Meters

Housing Color

Blank = Yellow housing
R = Red Housing

1" Receptacle

Gender and Design

RSF = Male Receptacle, 1/2 inch NPT front mount
RKF = Female Receptacle, 1/2 inch NPT front mount

Coding & Pin Assignment

60B = 6 pole (5+PE), female (female internal thread) 601B = 6 pole (5+PE), male or female (female external thread)
70M = 7 pole (5+PE), female (female internal thread) 701M = 7 pole (6+PE), male or female (female external thread)
80M = 8 pole (7+PE), female (female internal thread) 801M = 8 pole (7+PE), male or female (female external thread)

Stranded Wire Style

696 = Stranded Conductors, 6 x 16 AWG, US Color Coded
622 = Stranded Conductors, 7 x 16 AWG, US Color Coded
698 = Stranded Conductors, 8 x 16 AWG, US Color Coded
Other cable styles available upon request. Please contact: icos-sales@belden.com

Cable Length

xM = Length in meters
0.5 M = 0.5 Meters, 1.5 M = 1.5 Meters

Singled Ended Cordset			Doubled Ended Cordset		Receptacle Nomenclature		
Male	Male	Female	Male to Female		Male	Male	Female
External Thread	Internal Thread	External Thread	Male External	Male Internal	External Thread	Internal Thread	External Thread
							
RS x0-	RS x01-	RK x0-	RSRK x0-	RSRK x01-	RSF x0-	RKF x0-	RKF x01-

Replace "x" with number of poles



Technical Information

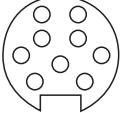
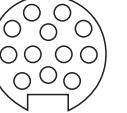
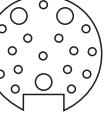
1-1/8" Series

	9-Pole	10-Pole	12-Pole	19-Pole
				
	General Data Molded Cordsets			
Type	Single (connector to blunt cut) or Double Ended (extension cord M-F)			
Gender	Male or Female			
Orientation	Straight			
Housing Color*	Yellow			
Contact Bear Color**	Yellow			
No. of pins	9	10	12	19
Coupling Nut	Aluminum, Stainless Steel (male side available internal or external thread)			
	Electrical Data Operating Voltage: Up to 600 V AC/ DC Current: 7A 7A 5A			
Environmental Data				
Ambient Temperature*	-40°C to +90°C			
Protection Degree	IP68 (2h, 10 bar)			
Approvals	UL			



Technical Information

1-1/8" Series

	9- Pole	10- Pole	12- Pole	19- Pole
				
	General Data			
Type	Receptacle			
Gender	Single (connector to fly leads)			
Orientation/ Mounting Thread	Male or Female			
Orientation	Front Mount/1/2" NPT			
Contact Bear Color**	Aluminum, anodized clear			
No. of pins	9	10	12	19
Locking Nut	Yellow			
	Electrical Data			
Operating Voltage	Up to 600 V AC/ DC			300 V AC/ DC
Current	7A	7A	5A	Signal 3A / Power 8A
	Environmental Data			
Ambient Temperature*	-40°C to +90°C			
Protection Degree	IP68 (2h, 10 bar)			
Approvals	UL			



Product Configurator

1-1/8" Cordsets

Gender and Design

RS = Male cordset, molded, 0° RSRK = Male, Molded, 0°, to Female, Molded, 0°
RK = Female cordset, molded, 0°

Coding & Pin Assignment

90M = 9 pole (8+PE), male or female (male external thread),or extension
100 M = 10 pole (9+PE), male or female (male external thread),or extension
120 M = 12 pole (11+PE), male or female (male external thread),or extension
190 M = 19 pole (18+PE), male or female (male external thread),or extension
901M = 9 pole (8+PE), male (male external thread),or extension
1001M = 10 pole (9+PE), male (male external thread),or extension
1201M = 12 pole (11+PE), male (male external thread),or extension
1901M = 19 pole (18+PE), male (male external thread),or extension

Cable Style

751 = YELLOW, TPE, 9 x 18 AWG, US Color Coded, PLTC
823 = YELLOW, TPE, 9 x 16 AWG, US Color Coded, TC-ER
752 = YELLOW, TPE, 10 x 18 AWG, US Color Coded, PLTC
S4677 = YELLOW, TPE, 10 x 16 AWG, US Color Coded, TC-ER
776 = YELLOW, TPE, 12 x 18 AWG, Numeric Color Coded, PLTC
S4678 = YELLOW, TPE, 12 x 16 AWG, US Color Coded, TC-ER
769 = YELLOW, TPE, 19 x 18 AWG, Numeric Color Coded, PLTC
Other cable styles available upon request. Please contact: icos-sales@belden.com

Cable Length

xM = Length in meters
0.2 M = 0.2 Meters, 2 M = 2 Meters , 20 M = 20 Meters

Housing Color

Blank = Yellow housing
R = Red Housing

Product Configurator

1-1/8" Receptacle

Gender and Design

RSF = Male Receptacle, 1/2 inch NPT front mount
RKF = Female Receptacle, 1/2 inch NPT front mount

Coding & Pin Assignment

90M = 9 pole (8+PE), female (female internal thread) 901M = 9 pole (8+PE), male or female (female external thread)
100M = 10 pole (9+PE), female (female internal thread) 1001M = 10 pole (9+PE), male or female (female external thread)
120M = 12 pole (11+PE), female (female internal thread) 1201M = 12 pole (11+PE), male or female (female external thread)
190M = 19 pole (18+PE), female (female internal thread) 1901M = 19 pole (18+PE), male or female (female external thread)

Cable Style

651 = Stranded Conductors, 9 x 18 AWG, US Color Coded
623 = Stranded Conductors, 9 x 16 AWG, US Color Coded
652 = Stranded Conductors, 10 x 18 AWG, US Color Coded
699 = Stranded Conductors, 10 x 16 AWG, US Color Coded
676 = Stranded Conductors, 12 x 18 AWG, Numeric Color Coded w/ GN/YE PE
624 = Stranded Conductors, 12 x 16 AWG, US Color Coded
669 = Stranded Conductors, 19 x 18 AWG, Numeric Color Coded w/ GN/YE PE
Other cable styles available upon request. Please contact: icos-sales@belden.com

Cable Length

xM = Length in meters
0.5 M = 0.5 Meters, 1.5 M = 1.5 Meters

Singled Ended Cordset			Doubled Ended Cordset		Receptacle Nomenclature			
Male	Male	Female	Male to Female		Male	Female		
External Thread	Internal Thread	External Thread	Male External	Male Internal	External Thread	Internal Thread	External Thread	
								
RS x0-	RS x01-	RK x0-	RSRK x0-	RSRK x01-	RSF x0-	RKF x0-	RKF x01-	Replace "x" with number of poles



Accessories

7/8"		
Dust Cap	External Thread	Internal Thread
No Chain	 RKV-WO	 RSV-WO
With Chain for Receptacle	 RKV	 RSV
With Lanyard for Cordset	 RKV-LY	 RSV-LY
Thread Adaptor		
For use for making extension cords with internal to internal threaded male and female	 RS-TU	 RS-TU-B
		 RS-TU-C



Circular Connectors MINI Power Series

Full power ahead – for your industrial automation processes

With the Mini Power connectivity and power solution, you can easily set up, maintain or expand your system, while maximizing uptime in harsh conditions.



The Benefits

Maximum output – enabling the transmission of up to 30 A per contact

Long-distance power – works in environments with wet or dry areas or extreme temperatures

Time-saving – ready-to-install already terminated cords and connectors

Markets

- Automotive
- Automation
- Material Handling
- Packaging
- Transportation



Technical Information

MINI Power	A-Size 7/8"	D-Size 1-3/8"	A-Size 7/8"	D-Size 1-3/8"
				
General Data	Molded Cordsets			
Type	Single (connector to blunt cut) or Double Ended (extension cord M-F)			
Gender	Male or Female			
Orientation	Straight or Angled			
Housing Color*	Black or Red			
Contact Bear Color**	Black			
No. of pins	3	3	4	4
Coupling Nut	Cu, Alloy			
Cable Data				
Jacket Type / Color	TC-ER TPE / Black			
AWG Size	14 AWG	10 AWG or 14 AWG	14 AWG	10 AWG or 14 AWG
Electrical Data				
Operating Voltage	Up to 600 V AC/ DC			
Current	18A	42A	15A	40A
Environmental Data				
Ambient Temperature*	-40°C to +90°C			
Protection Degree	IP65, IP67			
Approvals	UL			



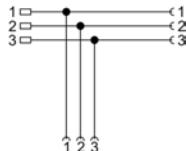
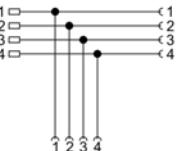
Technical Information

MINI Power	A-Size 7/8"	D-Size 1-3/8"	A-Size 7/8"	D-Size 1-3/8"
				
	General Data Receptacle Type Single (connector to fly leads) Gender Male or Female Orientation Front Mount Housing* Brass, nickel plated Contact Bear Color** Black No. of pins 3 3 4 4 Locking Nut Steel			
	Electrical Data Operating Voltage Up to 600 V AC/ DC 300 V AC/ DC Current 18A 30A 15A 25A			
	Environmental Data Ambient Temperature* -40°C to +90°C Protection Degree IP65, IP67 Approvals UL			



Technical Information

MINI Power

	7/8"	1-3/8" to 7/8"	1-3/8"	7/8"	1-3/8" to 7/8"	1-3/8"	
							
	General Data	TAP-A 3	TAP-PA 3	TAP-P 3	TAP-A 4	TAP-PA 4	TAP-P 4
	Type				Splitter		
	Gender			1 Male x 2 Female			
	Orientation			T connector			
	Housing Material*			PVC			
	Contact Bear Color**			Black			
	No. of pins	3			4		
	Coupling Nut			Cu, Alloy			
	Electrical Data						
	Operating Voltage			Up to 600 V AC/ DC			
	Current	18A	18A	42A	15A	15A	40A
	Environmental Data						
	Ambient Temperature*			-40°C to +90°C			
	Protection Degree			IP65, IP 67			
	Approvals			UL 2237			

TAP-A x-*



TAP-PA x-*



TAP-P x-*

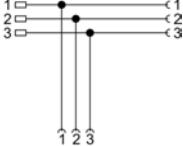
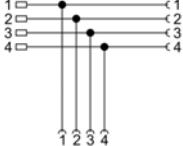


Replace "x" with number of poles
Replace "*" with R for red overmold body



Technical Information

MINI Power

		1-3/8" to 7/8"	
			
			
			
General Data		TAP-PA 3-802/*M	TAP-PA 4 -805/*M
Type	Splitter		
Gender	1 Male x 2 Female		
Orientation	T connector		
Housing Material*	PVC		
Contact Bear Color**	Black or Red		
No. of pins	3	4	
Coupling Nut	Cu, Alloy		
Electrical Data			
Operating Voltage	Up to 600 V AC/ DC		
Current	18A	15A	
		Environmental Data	
Ambient Temperature*	-40°C to +90°C		
Protection Degree	IP65, IP 67		
Approvals	UL 2237		



Product Configurator

MINI POWER

Gender and Design

RSP = 1-3/8", Male cordset, molded, 0°	RKP = 1-3/8", Female cordset, molded, 0°
RSPA = 7/8", Male cordset, molded, 0°	RKPA = 7/8", Female cordset, molded, 0°
RSWP = 1-3/8", Male cordset, molded, 90°	RKWP = 1-3/8", Female cordset, molded, 90°
RSWPA = 7/8", Male cordset, molded, 90°	RKWP = 7/8", Female cordset, molded, 90°

Note: add "-R" at end for red overmold body

RSPA 3-800 / 2M

Coding & Pin Assignment

3 = 3 Pole (2 + PE)

4 = 4 Pole (3 + PE)

Insertion point for double ended (repeat steps above)

Female connector is always in second prefix of nomenclature

Cable Style

800 = BLACK, TPE, 3 x 10 AWG, TC-ER (1 3/8" only)	800 = BLACK, TPE, 3 x 14 AWG, TC-ER
803 = BLACK, TPE, 4 x 10 AWG, TC-ER (1 3/8" only)	803 = BLACK, TPE, 4 x 14 AWG, TC-ER

Other cable styles available upon request. Please contact: icos-sales@belden.com

Cable Length

xM = Length in meters

0.2 M = 0.2 Meters, 2 M = 2 Meters, 20 M = 20 Meters

Singled Ended Cordset		Doubled Ended Cordset		Singled Ended Cordset		Doubled Ended Cordset	
Male	Female	Male to Female		Male	Female	Male to Female	
							
							
							
							

Replace "x" with number of poles



Product Configurator

Receptacles

Gender | Design

RSFP = Male, Front Mountable, 1-3/8"

RSFPA = Male, Front Mountable, 7/8"

RKFP = Female, Front Mountable, 1-3/8"

RKFPA = Female, Front Mountable, 7/8"

Pin Assignment

3 = 3 Pole [2+PE]

4 = 4 Pole [3+PE]

Panel Thread Size

1/2 NPT = Front Mount, 1/2" NPT Thread

3/4 NPT = Front Mount, 3/4" NPT Thread [1 - 3/8" only]

Wire Sizes

D-Size = 1-3/8"

800 = 3x10 AWG Wires

803 = 4x10 AWG Wires

A-Size = 7/8"

802 = 3x14 AWG Wires

805 = 4x14 AWG Wires

Wire Lengths

0.3M = 0.3 Meters

1.3M = 1.3 Meters



Other cable lengths available upon request.
Please contact: icos-sales@belden.com

Type A body 7/8"		Type D body 1-3/8"	
Male	Female	Female	Male
			
RSFPA x-1/2NPT-80x/*M	RKFPA x-1/2NPT-80x/*M	RSFP x-1/2NPT-80x/*M	RKFP x-1/2NPT-80x/*M
			
		RSFP x-3/4NPT-80x/*M	RKFP x-3/4NPT-80x/*M

Replace "x" with number of poles



Accessories

Reducer D-Size to A Size	 RSP 3-RKPA 3 (-R)	 RSP 4-RKPA 4 (-R)
Lock Clips	 Alock	 Dlock
Dust Cap D-Size 1/3/2008		
No Chain	 RKV-D Plug	 RSV-D Cap
With Chain for Receptacle	 RKV-D-LY Plug	 RSV-D-LY Cap
Dust Cap A-Size 7/8"		
No Chain	 RKV-WO	 RSV-WO
With Chain for Receptacle	 RKV	 RSV
With Lanyard for Cordset	 RKV-LY	 RSV-LY



Circular Connectors M23 Series

A perfect match – Power and Signal transmission in one interfaces

The powerful M23 Series makes it safe and easy to connect actuator/sensor and fieldbus modules. By virtue of their robust features, these connectors are ideal for applications in harsh industrial environments.



The Benefits

Braving any temperature – well-suited for climatic peaks from climate chambers to ovens

Efficient solution – due to fast, multi-pole connection interfaces; ideal for automation applications

Flexible solutions – including straight and angled molded as well as field attachable versions

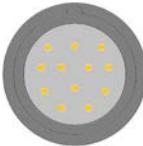
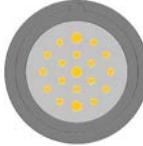
Markets

- Machine building
- Automation
- Automotive
- Infrastructure



Technical Information

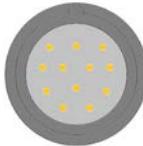
M23 Series

	Approvals	12 Pole	19 Pole
			
	General Data Type: Single (connector to blunt cut) or Double Ended (extension cord M-F) Gender: Male or Female Orientation: Straight or Right Angled (90°) / Optional shielding tied to coupling nut Housing Color*: Black Contact Bear Color**: Black or White No. of pins: 12 [11+PE] 19 [18+PE] Coupling Nut: CuZn, nickel plated	Molded Cordsets	
	Cable Data Jacket Type / Color: PUR, TPE AWG Size: 8x0.5mm ² + 3x1.0mm ² 16x0.5mm ² + 3x1.0mm ²		
	Electrical Data Operating Voltage: Up to 120V AC/ DC Current: 8A 16 x 8A + 3 x 10A		
	Environmental Data Ambient Temperature*: -25°C to +80°C Protection Degree: IP65, IP67		



Technical Information

M23 Series

	12 Pole	19 Pole
		
General Data		Field Attachable
Type		Cable Entry PG9, PG 13.5
Gender		Male or Female
Orientation		Straight or Right Angled (90°)
Housing Material		CuZn
Contact Bear Color**		White
No. of pins	12 [11+PE]	19 [18+PE]
Type of Connection		Solder
Coupling Nut		CuZn, nickel plated
Cable Data		
Suitable Cables		Ø 10 mm to Ø 14 mm
Conductor Cross Section	Max 1.0 mm ²	Max 16x1.0mm ² + 3x1.5mm ²
Electrical Data		
Operating Voltage		Up to 120V AC/ DC
Current	8A	16 x 8A + 3 x 10A
Environmental Data		
Ambient Temperature*		-40°C to +125°C
Protection Degree		IP65



Product Configurator

Cordsets

Gender and Design

RSU = Molded Male Cordset, 0°

RSUS = Molded Male Cordset, 0°, Shielded

RSUF = Molded Male Cordset, 0° [fixed external threaded nut]

RSWU = Molded Male Cordset, 90°

RSWUF = Molded Male Cordset, 0° [fixed external threaded nut]

Note: Female RKUE and RKWUE = additional PE tied to coupling nut for 19 pole only

RKU = Molded Female Cordset, 0°

RKUS = Molded Female Cordset, 0°, Shielded

RKUF = Molded Female Cordset, 0° [fixed external threaded nut]

RKUE = Molded Female Cordset, 0°

RKWU = Molded Female Cordset, 90°

RKWUF = Molded Female Cordset, 90° [fixed external threaded nut]

RKWUE = Molded Female Cordset, 90°

Pin Assignment

12 = 12 Pole [11+PE]

19 = 19 Pole [18+PE]

Insertion Point for double ended (repeat steps above)

Female connector is always in the second prefix of nomenclature

Cable Types

12 Pole Cable options

256 = 8x0.5mm² +3x1.0mm², PUR Black, IEC Coded

137 = 12x1.0mm², PUR Black, Numeric Coded + GN/YE ground

285 = 10x0.75mm² +2x1x0.75mm², PVC, Yellow, IEC Coded

S4741 = 8x0.5mm² +3x1.0mm², TPE Yellow, IEC Color Coded

19 Pole Cable options

242 = 16x0.5mm² +3x1.0mm², PUR Black, IEC Coded

262 = 16x0.5mm² +3x1.0mm², PUR Grey, IEC Coded

352 = 16x0.5mm² +3x1.0mm², PUR Black, IEC Coded, Braided Shield

S4740 = 16x0.5mm² +3x1.0mm², TPE Yellow, IEC Coded

Other cable styles available on request. Contact: icos-sales@belden.com

Wire Lengths

0.3M = 0.3 Meters

1.3M = 1.3 Meters

3M = 3 Meters

Singled Ended Cordset



Replace "x" with number of poles



Product Configurator

Field Attachable

Gender | Design

RSC = Male Connector, Straight

RSCW = Male Connector, 90° Angled

RSC-F = Male Connector, Straight, External Threaded coupling nut

RKC = Female Connector, Straight

RKCW = Female Connector, 90° Angled

Pin Assignment

120 = 12 Pole

190 = 19 Pole

Cable Gland

13.5 = PG 13.5

9 = PG 9

		Singled Ended Cordset		Accessories					
Male		Female							
	RSC		RSC-F		RKC		ZMS 19 (tool for field attachable)		RKV-23
	RSCW 1x-		RKCWU		ZVK 2		RSV-23		



Rectangular Connectors ST Series

Rely on the original – market leading for decades

Conforming to IEC 60335, the latest standards for household appliances, the ST Series sets the standard in building automation applications. This makes it an ideal first choice for sun shades and roller blind systems.



The Benefits

Prepared for any weather

– especially designed to withstand the challenges of outdoor usages, e.g. rain, ozone and UV radiation

Easy to connect – low installation efforts lead to more ease of use and an efficient work flow

Easy to rely on – ideally suited for ruggedized, moving applications where vibrations and dust are commonplace

Markets

- Building automation
- Machine building
- Automation

Technical Information

ST Series	3-pole (2 + PE)	4-pole (3 + PE)	5-pole (4 + PE)	6-pole (5 + PE)
	General Data			
	No. of Pins	2 + PE	3 + PE	4 + PE
	Cable-Gland (field attachable)	PG 7	PG 11	Male: M16x1.5 Female: PG 11
	Cable-Range (field attachable)	ø 4.0 mm to 6.5 mm	ø 6.0 mm to 10.0 mm	ø 6.0 mm to 10.0 mm
	Terminal Type (field attachable)	Screw	Screw	Screw
	Conductor Size (field attachable)	max. 1.5 mm ²	max. 1.5 mm ²	max. 1.5 mm ²
	Cable Material (molded)	H05RR	H05RR	H05RR
	Conductor Size (molded)	0.75 mm ²	0.75 mm ²	0.75 mm ²
	Housing Color	Grey, Black	Grey, Black	Grey, Black
	Electrical Data			
	Operating Voltage	230 V AC/DC	400 V AC/230 V DC	400 V AC/230 V DC
	Current	Molded: 10A AC/DC Field attachable: 16A AC/6A DC Receptacle: 16A AC/6A DC	Molded: 10A AC/DC Field attachable: 16A AC/10A DC Receptacle: 16A AC/10A DC	10A AC/10A DC
	Environmental Data			
	Ambient Temperature*	-30 °C to +90 °C	-30 °C to +90 °C	-30 °C to +90 °C
	Protection Degree	IP54	IP54	IP54
	Approvals	Molded: VDE Field attachable: VDE, UL, SEV Receptacle: VDE, UL, SEV	Molded: VDE Field attachable: VDE, UL, SEV Receptacle: UL, VDE	Molded: VDE Field attachable: VDE, UL, SEV

* Notice derating and cable temperature

Product Configurator

Cordsets

Gender and Design

STAS = Male cordset, molded, straight
STAK = Female cordset, molded, straight

Pin Assignment

2 = 3-pole (2 + PE)
3 = 4-pole (3 + PE)
4 = 5-pole (4 + PE)

Assembly Design Indicator

K = Molded

Conductor Size

075 = 0.75 mm²

Safety Clamp (available for STAS)

Without safety bracket
SI = With safety bracket

Flammability Class

UL 94 HB
VO = UL 94-VO

Cable Length

2M = 2 meter
5M = 5 meter Please contact: icos-sales@belden.com
10M = 10 meter

Housing Color

GREY = Grey = Grey housing
BLACK = BLACK = Black housing

STAK 3 K 075 SI VO 2M GREY

Product Configurator

Field Attachables and Receptacles

Gender and Design

STAS = Male connector, field attachable, straight
STASEI = Male connector, receptacle, front mount
STASAP = Male connector, receptacle, panel mount
STAK = Female connector, field attachable, straight
STAKEI = Female connector, receptacle, front mount
STAKAP = Female, receptacle, panel mount

STAS 3N VO GREY

Pin Assignment & Additional Features

2 = 3-pole (2 + PE)
20 = 3-pole (2 + PE), strain relief
200 = 3-pole (2 + PE), strain relief, coding slot
3 N = 4-pole (3 + PE)
4 N = 5-pole (4 + PE)
5 = 6-pole (5 + PE)

Flammability Class

VO = UL 94-VO

Housing Color

GREY = Grey housing
BLACK = Black housing

Order Overview

ST Series	3-pole (2 + PE)		4-pole (3 + PE)	
	Male	Female	Male	Female
1. Choose Coding →				
↓ 2. Choose Design				
Field Attachables				
Straight	STAS 2 VO Grey	STAK 2 VO Grey	-	-
Straight with strain relief	STAS 20 VO Grey	STAK 20 VO Grey	STAS 3 N VO Grey	STAK 3 N VO Grey
Straight with strain relief and coding slot	STAS 200 VO Grey	STAK 200 VO Grey	-	-
Receptacles				
Panel mount, screw type	STASAP 2 B VO Grey	STAKAP 2 VO Grey	STASAP 3 N VO Grey	STAKAP 3 N VO Grey
Panel mount, screw type with coding slot	STASAP 200 VO Grey	STAKAP 200 VO Grey	-	-
Panel mount, crimp type	-	-	-	-
Front mount with flange, screw type	STASEI 2 VO Grey	STAKEI 2 VO Grey	STASEI 3 N VO Grey	STAKEI 3 N VO Grey
Front mount with flange, screw type with coding slot	STASEI 200 VO Grey	STAKEI 200 VO Grey	-	-
Front mount with flange, crimp type	-	-	-	-
Single-Ended Cordsets				
Straight	-	-	-	STAK 3 K 075 VO * M Grey
Straight with safety bracket	STAS 2 K 075 SI VO * M Grey	-	STAS 3 K 075 SI VO * M Grey	-
Accessories				
Safety bracket	STASI 2		STASI 3	
ST Series	5-pole (4 + PE)		6-pole (5 + PE)	
	Male	Female	Male	Female
1. Choose Coding →				
↓ 2. Choose Design				
Field Attachables				
Straight	-	-	-	-
Straight with strain relief	STAS 4 N VO Grey	STAK 4 N VO Grey	STAS 5 VO Grey	STAK 5 VO Grey
Straight with strain relief and coding slot	-	-	-	-
Receptacles				
Panel mount, screw type	-	-	-	-
Panel mount, screw type with coding slot	-	-	-	-
Panel mount, crimp type	-	-	STASAP 5 VO Grey	STAKAP 5 VO Grey
Front mount with flange, screw type	-	-	-	-
Front mount with flange, screw type with coding slot	-	-	-	-
Front mount with flange, crimp type	-	-	STASEI 5 VO Grey	STAKEI 5 VO Grey
Single-Ended Cordsets				
Straight	-	STAK 4 K 075 VO * M Grey	-	-
Straight with safety bracket	STAS 4 K 075 SI VO * M Grey	-	-	-
Accessories				
Safety bracket	STASI 4		STASI 3	

Blue highlighted product features are available in different variants. Please see page 28 for more information.



Rectangular Connectors G/GO Series

The Space-Saver: Great in Performance – Small in Size

Where other connectors may find conditions too tight, the G/GO Series is right at home – and that's why the rectangular connector with its compact dimensions plays a major role in the world of miniaturization.



The Benefits

Extremely tough – especially designed for applications with persistent mechanical stress, e.g. in underground mining surroundings

Flexible to use – viable for a wide range of industries due to various pin assignments

Flexible to fit – square (G) and rectangular designs (GO) to match your individual application

Markets

- Machine building
- Automation
- Material handling
- Underground mining



Technical Information

G/GO Series		G Series 2-pole	G Series 3-pole	G Series 4-pole	GO Series 6-pole	GO Series 7-pole	
							
General Data							
No. of Pins	2	2 + PE	Molded: 3 + PE, 4 Field attachable: 4 Receptacle: 4	5 + PE, 6	6 + PE, 7		
Cable-Gland (field attachable)	-	PG 7	PG 7	PG 7	PG 11		
Cable-Range (field attachable)	-	ø 4.5 mm to 7.5 mm	ø 4.5 mm to 6.0 mm	ø 4.0 mm to 7.5 mm	ø 4.0 mm to 10.0 mm		
Terminal Type (field attachable)	-	Solder	Solder	Solder	Screw		
Conductor Size (field attachable)	-	0.15 mm ² to 0.5 mm ²	0.15 mm ² to 0.5 mm ²	0.15 mm ² to 0.5 mm ²	0.25 mm ² to 1.0 mm ²		
Cable Material (molded)	PVC	PVC	PVC	-	-		
Conductor Size (molded)	0.75 mm ²	1.0 mm ²	0.75 mm ² , 1.0 mm ²	-	-		
Housing Color	Black, Grey	Black, Grey	Black, Grey	Black	Black		
Electrical Data							
Operating Voltage	50 V AC/DC	230 V AC/DC	3 + PE: 230 V AC/DC 4: 50 V AC/DC	5 + PE: 230 V AC/DC 6: 50 V AC/DC	6 + PE: 230 V AC/DC 7: 50 V AC/DC		
Current	10A AC/DC	Molded: 10A AC/DC Field attachable: 6A AC/DC	Molded: 10A AC/DC Field attachable: 6A AC/DC Receptacle: 10A AC/DC	6A AC/DC	10A AC 6A DC		
Environmental Data							
Ambient Temperature*	-40 °C to +90 °C	-40 °C to +90 °C	-40 °C to +90 °C	-40 °C to +90 °C	-40 °C to +90 °C		
Protection Degree	IP65	IP65	IP65	IP65	IP65		
Approvals	VDE	VDE	VDE	VDE	VDE		

* Notice derating and cable temperature



Order Overview

G Series

	2-pole		3-pole (2 + PE)	
	Male	Female	Male	Female
1. Choose Coding →				
2. Choose Design				

Field Attachables

G Series, angled, solder type	-	-	-	G 20 W 3 F Grey
Receptacles				
G Series, solder type	-	-	-	-

Single-Ended Cordsets

G Series, angled	-	G 2 KW 1 F *M Grey	G 20 KW 3 M *M Grey	G 20 KW 3 F *M Grey
------------------	---	--------------------	---------------------	---------------------

G Series

	4-pole (3 + PE)		4-pole	
	Male	Female	Male	Female
1. Choose Coding →				
2. Choose Design				

Field Attachables

G Series, angled, solder type	-	G 30 W 3 F Grey	-	G 4 W 1 F Grey
Receptacles				
G Series, solder type	G 30 A 3 M Grey	G 30 E 3 F Grey	G 4 A 1 M Grey	-

Single-Ended Cordsets

G Series, angled	G 30 KW 3 M *M Grey	G 30 KW 3 F *M Grey	-	G 4 KW 1 F *M Grey
------------------	---------------------	---------------------	---	--------------------

GO Series

	6-pole (5 + PE)		6-pole	
	Male	Female	Male	Female
1. Choose Coding →				
2. Choose Design				

Field Attachables

GO Series, angled, solder type	-	GO 51 WF Black	-	GO 6 WF Black (50 V) GO 6 WF Black (230 V)
GO Series, angled, screw type	-	-	-	-

Receptacles

GO Series, solder type	GO 51 UM	-	GO 6 UM (50 V) GO 60 UM (230 V)	-
GO Series, solder type with flange	GO 51 FAV M	-	GO 6 FAV M (50 V) GO 60 FAV M (230 V)	-

GO Series

	7-pole (6 + PE)		7-pole	
	Male	Female	Male	Female
1. Choose Coding →				
2. Choose Design				

Field Attachables

GO Series, angled, solder type	-	-	-	-
GO Series, angled, screw type	-	GO 610 WF Black	-	GO 070 WF Black (50 V) GO 700 WF Black (230 V)

Receptacles

GO Series, solder type	-	-	-	-
GO Series, solder type with flange	GO 610 FA M	-	GO 070 FA M (50 V) GO 700 FA M (230V)	-

Blue highlighted product features are available in different variants. Please see page 16 for more information.



Product Configurator

G Series Cordsets und Field Attachables

Series Indicator

G = G Series

Pin Assignment

2 = 2-pole (molded only)

20 = 3-pole (2 + PE)

30 = 4-pole (3 + PE)

4 = 4-pole

Geometry Design

KW = Molded, 90° angled

W = Field attachable, 90° angled

Protective Earth

1 = Without earth conductor

3 = With earth conductor

Gender

M = Male connector

F = Female connector

Cable Length

Cordless (field attachable)

1,5M = 1.5 meter

2M = 2 meter

3M = 3 meter

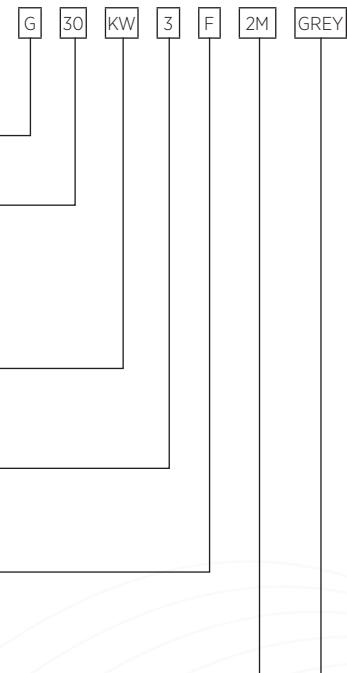
Other cable lengths available upon request.

Please contact: icos-sales@belden.com

Housing Color

GREY = Grey housing

BLACK = Black housing



Product Configurator

GO Series Field Attachables and Receptacles

Series Indicator

GO = GO Series (long edition 5-, 6- and 7-pole)

Pin Assignment

51 = 6-pole (5 + PE/230 V)

6 = 6-pole (50 V)

60 = 6-pole (230 V)

610 = 7-pole (6 + PE/230 V)

070 = 7-pole (50 V)

700 = 7-pole (230 V)

Geometry Design

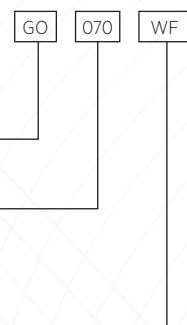
WF = 90° angled, female, (field attachable)

UM = Male, PCB mount, (receptacle)

FAV M = Male, octagonal flange, (receptacle)

FA M = Male, rectangular flange, (receptacle)

Please verify your configuration [@catalog.belden.com](http://catalog.belden.com)





Economical connectivity solutions off the shelf and custom-made

The Connectivity Center

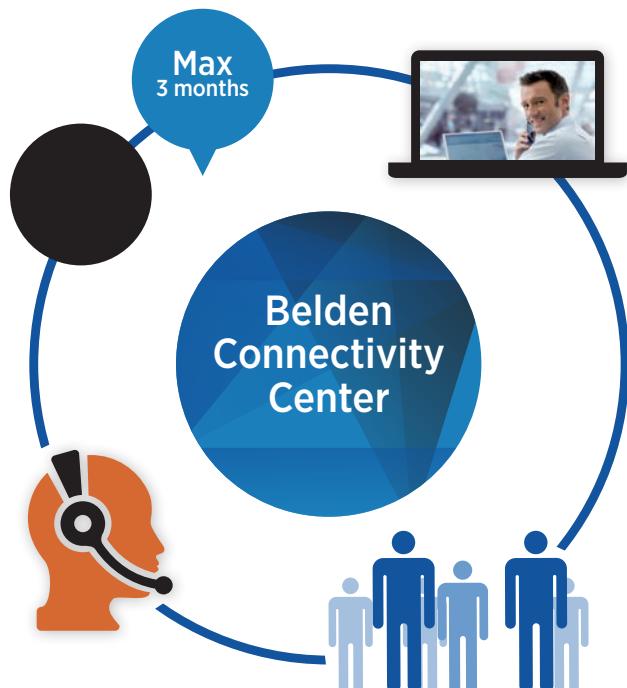
When it comes to automation technologies, we are the experts for quality connectors and wiring components. With an extensive Hirschmann Industrial Connector and Lumberg Automation Connectivity product portfolio, we can offer you a wide range of standard solutions.

Require a specialized solution that does not yet exist or have a problem with your current solution?

Then you simply get in touch with our Connectivity Center: the platform for custom-made solutions developed specifically for your needs. By combining all of our knowledge and internal resources, we will deliver the exact solution you need to smooth out your production process, warrant continuity and reduce Total Cost of Ownership.

The Best Solutions... Fast!

With a dedicated team of experts, we can meet even the most demanding deadlines and technical challenges. Every month, the Connectivity Center delivers approximately 100 customized solutions for customers worldwide. Some within just two weeks, hardly ever longer than three months. All solutions are guaranteed to have outstanding compact design, chemical resistance as well as high mechanical and electrical loading capacity.





Combined Strength of Three Belden Brands

Belden is a leader in the design, manufacture, and marketing of signal transmission products for data networking and a wide range of industrial connectivity products. Whenever necessary we combine the strength of all three powerful Belden brands: Belden, Hirschmann and Lumberg Automation.



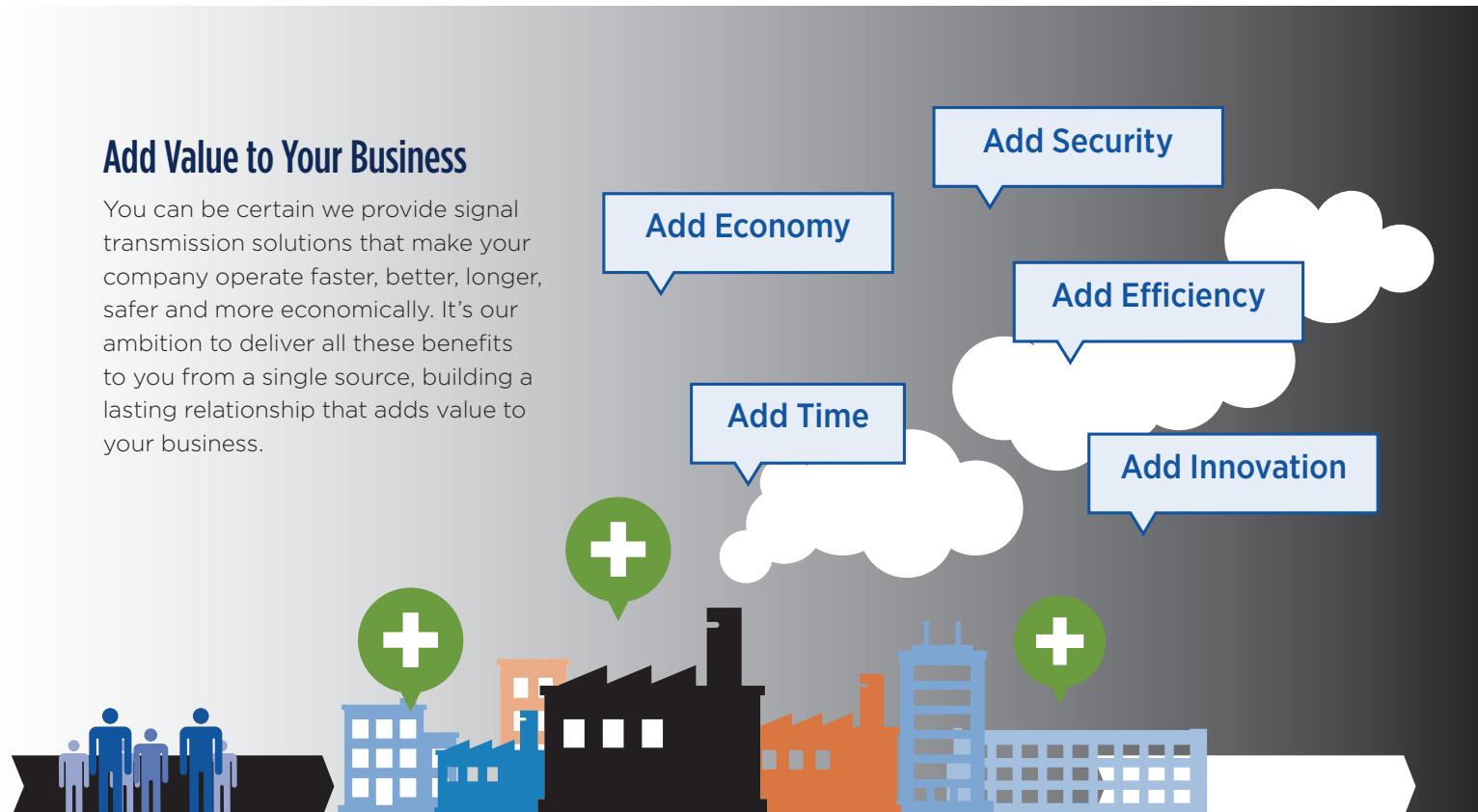
Pushing Technology, Meeting Standards



As a globally active technology leader we can translate the latest trends, insights and developments into custom-fit solutions that give you the competitive advantage you are looking for. Thanks to extensive prototyping and intensive testing in our own facilities, you can be sure national and international standards are met. You can put our solutions straight to work.

Add Value to Your Business

You can be certain we provide signal transmission solutions that make your company operate faster, better, longer, safer and more economically. It's our ambition to deliver all these benefits to you from a single source, building a lasting relationship that adds value to your business.





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.

For more information, visit us at:

www.belden.com

follow us on [Linkedin](#) and [Facebook](#).