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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

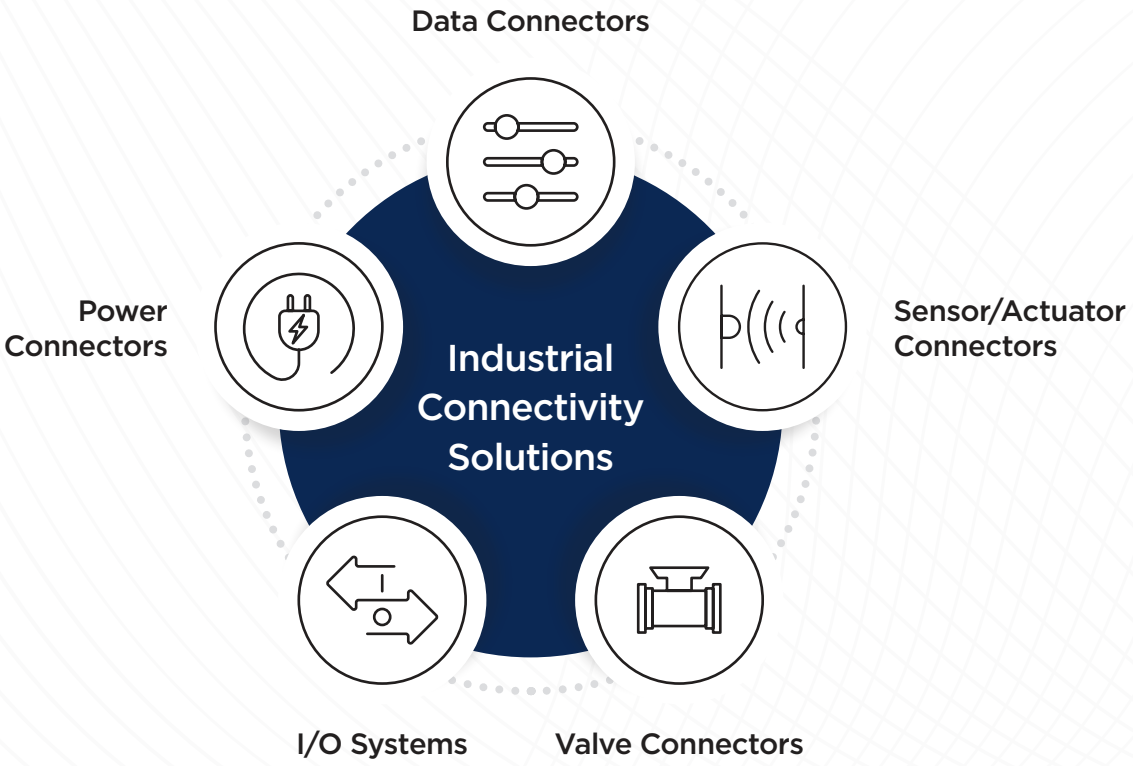
G/GO Series

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.

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Two Strong Brands for Your Needs

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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 mm²	18	-	-40°C to +90°C	
002			4 x 0.50 mm²	20	-	-40°C to +90°C	
003			2 x 0.75 mm²	18	-	-40°C to +90°C	
004			5 x 0.50 mm²	20	-	-40°C to +90°C	
285		Yellow	12 x 0.75 mm²	18	-	-40°C to +80°C	
678			2 x 16 AWG	16	-	-40°C to +105°C	UL
733		Black	4 x 1.5 mm²	16	-	-40°C to +90°C	UL
735			5 x 1.5 mm²	16	-	-40°C to +90°C	UL
736			5 x 0.75 mm²	18	-	-40°C to +90°C	UL
993			4 x 1.5 mm²	16	-	-30°C to +80°C	
994			4 x 1.5 mm²	16	Braid	-30°C to +80°C	
915			4 x 1.5 mm²	16	Braid	-30°C to +80°C	
916			5 x 1.5 mm²	16	Braid	-30°C to +80°C	
G Series		Grey	3 x 1.0 mm²	17	-	-25°C to +70°C	
G Series			4 x 0.75 mm²	18	-	-25°C to +70°C	
G Series			4 x 1.0 mm²	17	-	-25°C to +70°C	
242	PUR	Black	16x0.5mm²/3x1.0mm²	20/17	-	-50°C to +80°C	UL
256			8x0.5mm²/3x1.0mm²	20/17	-	-50°C to +80°C	UL
700			4 x 1.5 mm²	16	Braid	-40°C to +125°C	
703			4 x 1.5 mm²	16	-	-40°C to +125°C	
722			4 x 1.5 mm²	16	Braid	-40°C to +125°C	UL
723			4 x 1.5 mm²	16	-	-40°C to +125°C	
910			5 x 1.5 mm²	16	Braid	-40°C to +125°C	
911			5 x 1.5 mm²	16	-	-40°C to +125°C	
912			5 x 2.5 mm²	14	-	-40°C to +125°C	
921			5 x 2.5 mm²	14	Braid	-40°C to +125°C	
352			16x0.5mm²/3x1.0mm²	20/17	Braid	-50°C to +80 °C	
949		Grey	5 x 1.5 mm²	16	-	-40°C to +125 °C	
950			5 x 2.5 mm²	14	-	-40°C to +125 °C	
956			5 x 1.5 mm²	16	Braid	-40°C to +125 °C	
957			5 x 2.5 mm²	14	Braid	-40°C to +125 °C	
355			16x0.5mm²/3x1.0mm²	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			16x0.5mm²/3x1.0mm²	20/17	Braid	-50°C to +80°C	
S4740			8x0.5mm²/3x1.0mm²	20/17	Braid	-50°C to +80°C	
840		Red	3 x 16 AWG	16	-	-30°C to +90°C	
841			4 x 16 AWG	16	-	-30°C to +90°C	
995		Black	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		2 x 0.75 mm²	18	-	-25°C to +90°C	
ST Series	H05RR		3 x 0.75 mm²	18	-	-25°C to +90°C	
ST Series			4 x 0.75 mm²	18	-	-25°C to +90°C	
ST Series			5 x 0.75 mm²	18	-	-25°C to +90°C	

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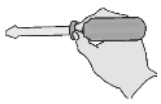
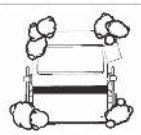
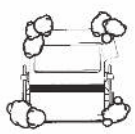
Cable Material Comparison

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

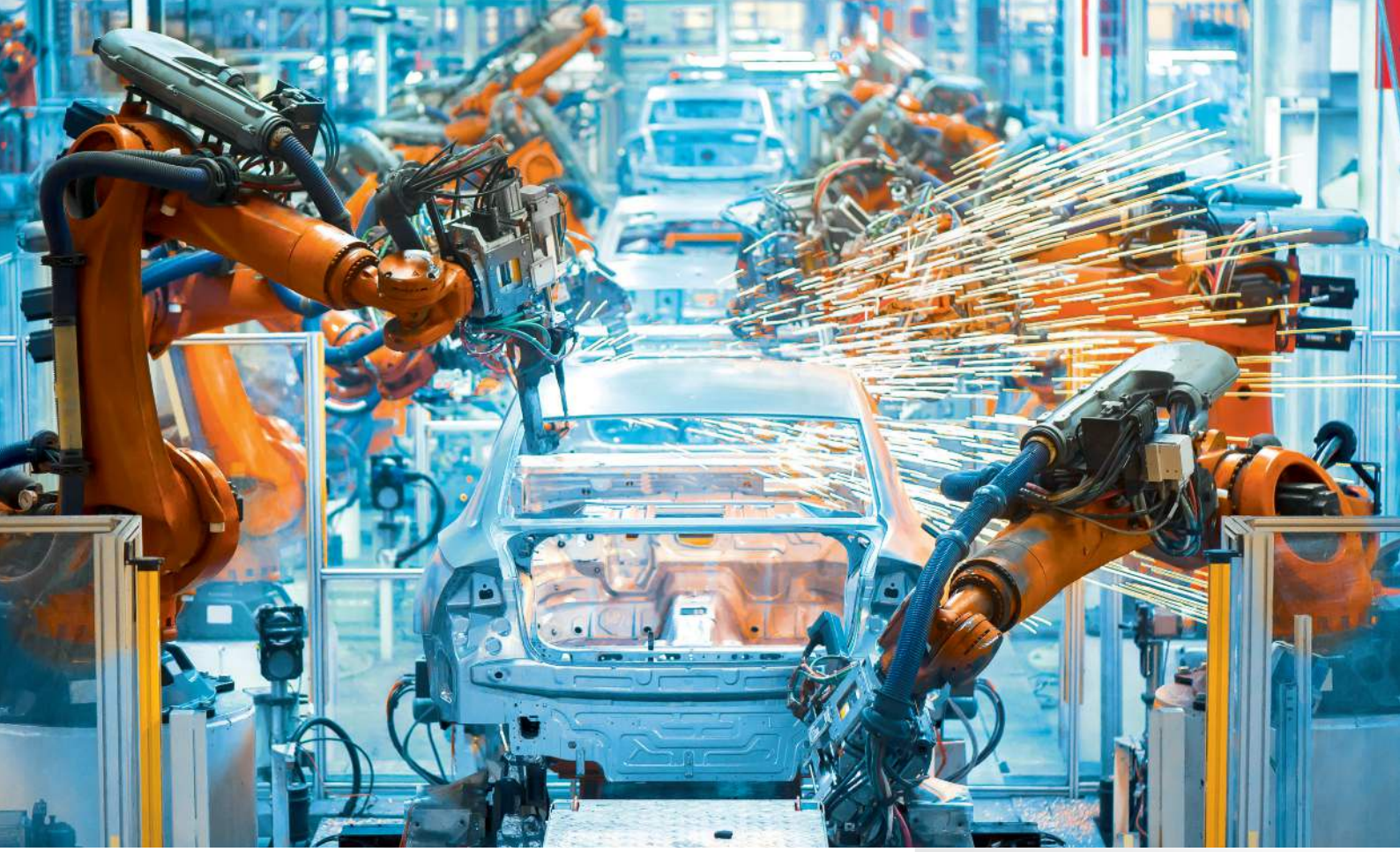
Please request datasheet for more detailed information

● = Poor ●● = Fair ●●● = Good ●●●● = Excellent

IP Code

Index		Degree of Protection
0		No protection against accidental contact, no protection against solid foreign bodies
1		Protection against contact with any large area by hand and against solid foreign bodies with Ø >50 mm
2		Protection against contact with the fingers, protection against solid foreign bodies with Ø >12 mm
3		Protection against tools, wires or similar objects with Ø >2.5 mm, protection against solid foreign bodies with Ø >2.5 mm
4		Just like 3 except for the size difference of Ø >1 mm
5		Full protection against contact, protection against interior injurious dust deposits
6		Total protection against contact, protection against penetration of dust

Index		Degree of Protection
0		No protection against water
1		Protection against vertical water drops
2		Protection against water drops (up to a 15° angle)
3		Protection against diagonal water drops (up to a 60° angle)
4		Protection against splashed water from all directions
5		Protection against water (out of a nozzle) from all directions
6		Protection against water penetration during temporary flooding
7		Protection against temporary submersion in water
8		Protection against permanent submersion in water
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

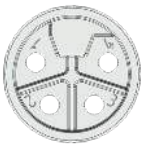
Performance you can rely on – thanks to high-class material and various international approvals

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	4
	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	50 V AC/63 V DC
	Current	16A	16A	16A	16A	16A
	Environmental Data					
	Ambient Temperature*	-40°C to +125°C				
	Protection Degree	IP65, IP67, IP69k				
	Approvals	VDE, UL				

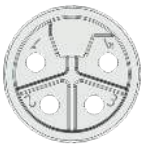
* Notice derating and cable temperature

Technical Information

M12 Power Series		S Coded	L Coded	K Coded	T Coded
					
	General Data	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
	Electrical Data				
	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
	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
						
	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	4
	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	50 V AC/63 V DC
	Current	16A	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 mm²	738385001	738387001	738387011
1.5 mm²	738385002	738387002	738387012
2.5 mm²	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

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

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 Assigment

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

Insertion point for double ended (repeat steps above)

Female connector is always in second prefix of numenclauture

Cable Style

S- Coding Cables

733 = 4x1.5 mm², PVC, Black
703 = 4x1.5 mm², PUR, Black
915 = 4x1.5 mm², shielded, PVC, Black
700 = 4x1.5 mm², shielded, PUR, Black

T- Coding Cables

722 = 4X1.5 mm², shielded, PUR, Black
723 = 4X1.5 mm², PUR, Black

L- Coding Cables

993 = 4x1.5 mm², PVC, Black
994 = 4x1.5 mm², shielded, PVC, Black
995 = 4x1.5 mm², TPE, Black
996 = 4x1.5 mm², TPE, Yellow
723 = 4x1.5 mm², PUR, Black
722 = 4x1.5 mm², shielded, PUR, Black
1000 = 5x1.5 mm², TPE, Black
1003 = 5x1.5 mm², TPE, Yellow
950 = 5x2.5 mm², PUR, Grey
949 = 5x1.5 mm², PUR, Grey
950 = 5x2.5 mm², PUR, Grey
956 = 5x1.5 mm², shielded, PUR, Grey
957 = 5x2.5 mm², shielded, PUR, Grey

K- Coding Cables

736 = 5x0.75 mm², PVC, Black
735 = 5x1.5 mm², PVC, Black
912 = 5x2.5 mm², PVC, Black
911 = 5x1.5 mm², PUR, Black
916 = 5x1.5 mm², shielded, PVC, Black
921 = 5x2.5 mm², shielded, PVC, Black
910 = 5x1.5 mm², shielded, PUR, Black

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


RST(S) xx-


RKT(S) xx-


RST(S) xx-RKT(S) xx-


RST xx-RKWT xx-


RSWT(S) xx-


RKWT(S) xx-


RSWT(S) xx-RKT(S) xx-


RSWT xx-RKWT xx-

(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

R | S | F | 6 | S | 5L | – | 033 | / | 2.5M

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 = Postionable Front Mount	J = Postionable Front Mount*
A = Flange Mount	Q = Flange Mount*

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

Thread Type

6 = M16x1.5

0 = Flange Mount

Shielding

S = Yes U = No

~~Coding & Pin Assigment~~

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	RSAxx-xx-xx	RKPxx-xx-xxx	

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

Product Configurator

R	S	C	W	C	S	5L	/	11	/	2.5

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 Assigment

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

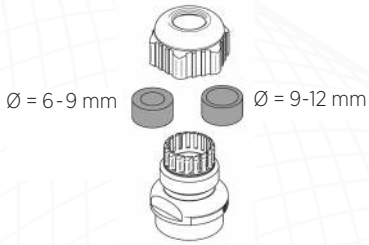
Markets

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

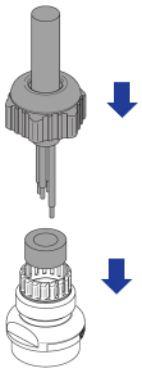
Technical Information

CA Series		3+PE Pole	6+PE Pole
			
	Field Attachable		
	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	
	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	

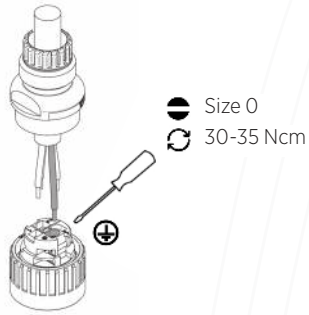
CA Series – intuitive assembly in a jiffy



Pick the right sealing depending on your cable size.

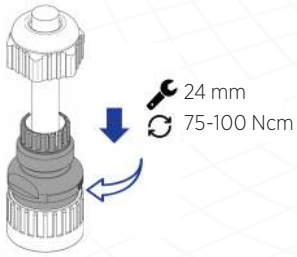


Insert the sealing into the body, then push the cable through.

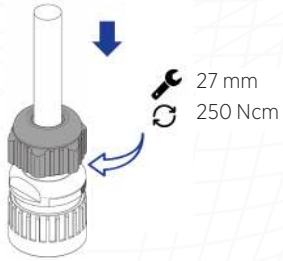


Unscrew the PE-contact, insert the PE-conductor and tighten again.

Repeat this procedure for the remaining contacts.

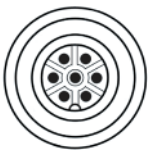


Screw the connector body to the contact holder.

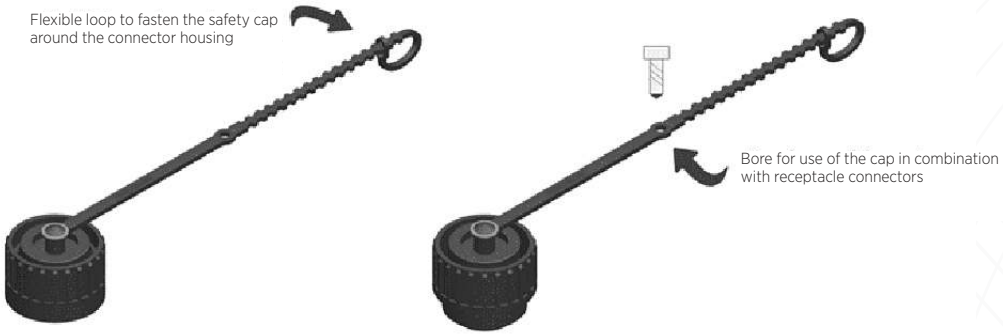


Screw the cable gland to the connector body.

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

C	A	3	W	LS	BLUE

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

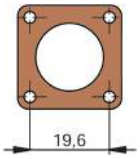
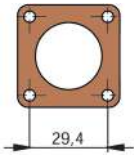
CM Series		7	14	17
					
	General Data	CM 06 EA 20-7 S	CM 06 EA 20-27 S	CM 06 EA 20-29 S
	Cable Entry Size / Ø Jacket Range	PG 13.5 (Ø8-10mm)	PG 13.5 (Ø8-10mm)	PG 13.5 (Ø8-10mm)
	Gender	Female		
	Orientation	Straight		
	Housing Color*	Black		
	Contact Bear Color**	Black		
	No. of pins	7	14	17
	Coupling 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	CA 06 SD 14S
	mates to male 4, 5, 6, 6+PE	mates to female 4, 5, 6, 6+PE
Description	CA 02 SD 20	CA 06 SD 20
	mates to male 7, 8, 14, 17	mates to female 7, 8, 14, 17
		
Description	CM 02 D 14S	CM 02 D 20
	Panel side gasket to for 4, 5, 6, 6+PE	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

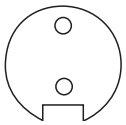
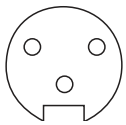
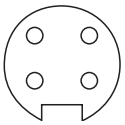
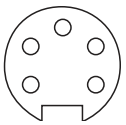
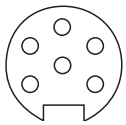
Worldwide valued – internationally standardized interface for global usage

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 [0.5mm²] - 16 AWG [1.5mm²]				
	**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

RS | RKW | 301 - 733 / 2M | [ ]

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 Assigment

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

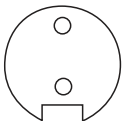
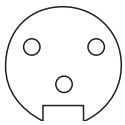
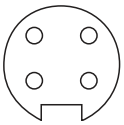
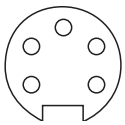
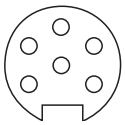
Blank, Grey on Request

** Standard overmold body color is yelllow or orange

Single End Nomenclature			Double End Nomenclature			
Male		Female	Male to Female Extension Cable			
External Thread	Internal Thread	Internal Thread	Male External Thread to Female		With Male Internal 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 [0.5mm²] - 16 AWG [1.5mm²]				
	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

RKF | 501 - 677 / 1.5M

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 Assigment

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

Stranded Wire Style

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

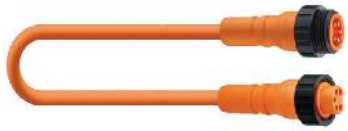
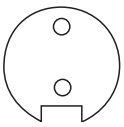
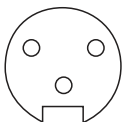
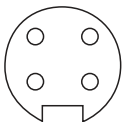
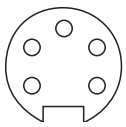
xM = Length in meters
0.5 M = 0.5 Meters, 1.5 M = 1.5 Meters

Receptacle Nomenclature

Male	Female	
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]	0.75mm²	0.75mm²	0.50mm²	0.50mm²
	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

RS | RKW | 30 | - | 01 | / | 2M

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°

Coding & Pin Assigment

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 mm^2, IEC
01 = ORANGE, PVC, 3 x 0.75 mm^2, IEC
02 = ORANGE, PVC, 4 x 0.50 mm^2, IEC
04 = ORANGE, PVC, 5 x 0.50 mm^2, 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

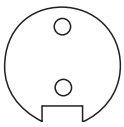
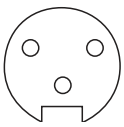
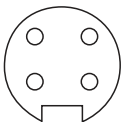
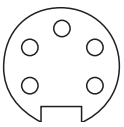
Cable Length

xM = Length in meters
0.2 M = 0.2 Meters, 2 M = 2 Meters , 20 M = 20 Meters
** Standard overmold body color is orange

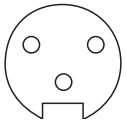
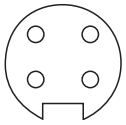
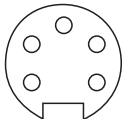
Single End Nomenclature		Double End Nomenclature	
Male	Female	Male External Thread to Female	
External Thread	Internal Thread	With Male External Thread to Female	
 RS x0-xxx	 RK x0-	 RSRK x0-	 RSRKW x0-
 RSW x0-	 RKW x0-	 RSWRK x0-	 RSWRKW x0-

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				
Color Code	IEC			
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

RKF | 50 / 13.5 - 4 / 1.5M

7/8" Receptacle European Style

Gender and Design

RSF = Male Receptacle
RKF = Female Receptacle

Coding & Pin Assigment

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

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

RKC | 301 / 11

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

Coding & Pin Assigment

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

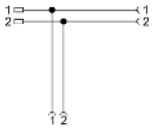
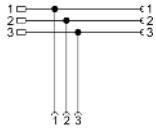
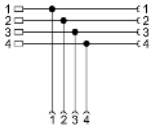
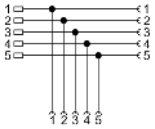
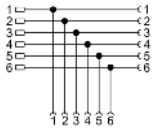
9 = PG 9 (Ø 6-8 mm)
13.5 = PG 13.5 (Ø 10-12 mm)
11 = PG 11 (Ø 8-10 mm)
16 = PG 16 (Ø 12-14 mm)

Receptacle Nomenclature		Field Attachable Nomenclature		
Male	Female	Male		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

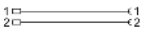
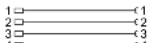
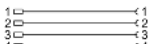
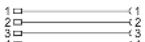
Technical Information

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)				

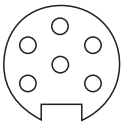
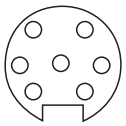
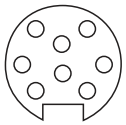
0906 UTP 315	0906 UTP 313	0906 UTP 312	0906 UTP 316	0906 UTP 319
				

Technical Information

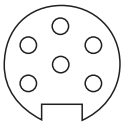
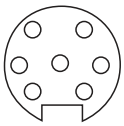
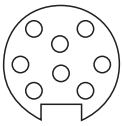
7/8" Series	2– Pole	3– Pole	4– Pole	5– Pole	6– Pole
					
General Data					
Type	Feed Through Adaptor for Enclosure				
Gender	1 Male x 1 Female				
Orientation	Straight				
Housing Material*	Brass, nickel plated				
Material / Contact Bear Color*	TPU / Yellow				
No. of pins	2	3	4	5	6
Panel Nut	Steel, 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

RSRK | 601B | - | 896 | / | 2M | [ ]

1" Cordsets

Gender and Design

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

Coding & Pin Assigment

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

RKF | 601B | - | 696 | / | 1.5M

Gender and Design

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

Coding & Pin Assigment

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

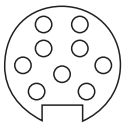
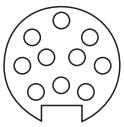
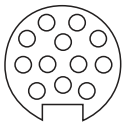
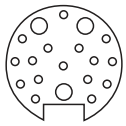
Cable Length

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	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-

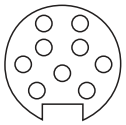
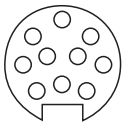
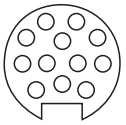
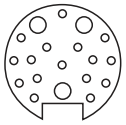
Replace "x" with number of poles

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			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			

Technical Information

1-1/8" Series

		9– Pole	10– Pole	12– Pole	19– 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	9	10	12	19
	Locking Nut	Steel, Zinc plated			
	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

RSRK | 1201M - S4678 / 2M | [ ]

1 - 1/8" Cordsets

Gender and Design

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

Coding & Pin Assigment

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

RKF | 1201M - 624 / 1.5M

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 Assigment

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

Markets

- Automotive
- Automation
- Material Handling
- Packaging
- Transportation

Technical Information

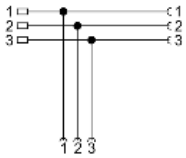
MINI Power		A-Size 7/8"	D-Size 1-3/8"	A-Size 7/8"	D-Size 1-3/8"
					
	General Data	Molded Cordsets			
	Type	Single (connector to blunt cut) or Double Ended (extension cord M-F)			
	Gender	Male or Female			
	Orientation	Straight or Angled			
	Housing Color*	Black or Red			
	Contact Bear Color**	Black			
	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			

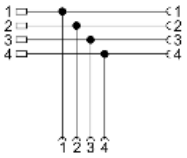
Technical Information

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





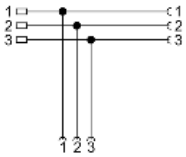
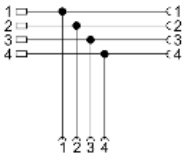
	General Data	TAP-A 3	TAP-PA 3	TAP-P 3	TAP-A 4	TAP-PA 4	TAP-P 4
	Type	Splitter					
	Gender	1 Male x 2 Female					
	Orientation	T connector					
	Housing Material*	PVC					
	Contact Bear Color**	Black					
	No. of pins	3			4		
	Coupling Nut	Cu, Alloy					
	Electrical Data						
	Operating Voltage	Up to 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

RSPA 3 - 800 / 2M

MINI POWER

Gender and Design

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

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

Coding & Pin Assigment

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 numenclauture

Cable Style

800 = BLACK, TPE, 3 x 10 AWG, TC-ER (1 3/8" only)
803 = BLACK, TPE, 4 x 10 AWG, TC-ER (1 3/8" only)
800 = BLACK, TPE, 3 x 14 AWG, TC-ER
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	
 RSPA x-	 RKPA x-	 RSPA x-RKPA x-	 RSPA x-RKWPA x-	 RSP x-	 RKP x-	 RSP x-RKP x-	 RSP x-RKWP x-
 RSWPA x-	 RKWPA x-	 RSWPA x-RKPA x-	 RSWPA x-RKWPA x-	 RSWP x-	 RKWP x-	 RSWP x-RKP x-	 RSWP x-RKWP x-
						 RSP x-RKPA x-	 RSP x-RKWPA x-

Replace "x" with number of poles

Product Configurator

RSFP | 3 - 1/2 NPT - 800 / 0.5M

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 Assigment

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 AWGWires
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		Molded Cordsets	
	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	
	Cable Data			
	Jacket Type / Color		PUR, TPE	
	AWG Size		8x0.5mm² + 3x1.0mm²	16x0.5mm² + 3x1.0mm²
	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

RKWU | 19 -- 242 / 10M

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 Assigment

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 numencluature

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

Male		Female		Female 19 only
 RSU(S) 1x-	 RSUF 1x-	 RKU(S) 1x-	 RKUF 1x-	 RKUE 1x-
 RSWU 1x-	 RSWUF 1x-	 RKWU 1x-		 RKWUE 1x-

Replace “x” with number of poles

Product Configurator

RKC | 120 / 13.5

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 Assigment

120 = 12 Pole
190 = 19 Pole

Cable Gland

13.5 = PG 13.5
9 = PG 9

Singled Ended Cordset

Male		Female	Accessories	
 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	5 + PE
	Cable-Gland (field attachable)	PG 7	PG 11	Male: M16x1.5 Female: PG 11	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	ø 8.0 mm to 10.0 mm
	Terminal Type (field attachable)	Screw	Screw	Screw	Crimp
	Conductor Size (field attachable)	max. 1.5 mm^2	max. 1.5 mm^2	max. 1.5 mm^2	max. 1.0 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	Grey, Black
	Electrical Data				
	Operating Voltage	230 V AC/DC	400 V AC/230 V 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	10A DC/6A AC
	Environmental Data				
	Ambient Temperature*	-30 °C to +90 °C	-30 °C to +90 °C	-30 °C to +90 °C	-30 °C to +90 °C
	Protection Degree	IP54	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	VDE, SEV

* Notice derating and cable temperature

Product Configurator

STAK | 3 | K | 075 | SI | VO | 2M | GREY

Cordsets

Gender and Design

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

Pin Assigment

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
V0 = UL 94-V0

Cable Length

2M = 2 meter
5M = 5 meter
10M = 10 meter

Please contact: icos-sales@belden.com

Housing Color

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

Product Configurator

STAS | 3N | VO | GREY

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

Pin Assignment & Additonal 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

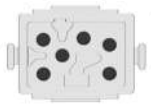
V0 = UL 94-V0

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 V0 Grey	STAK 2 V0 Grey	–	–
Straight with strain relief	STAS 20 V0 Grey	STAK 20 V0 Grey	STAS 3 N V0 Grey	STAK 3 N V0 Grey
Straight with strain relief and coding slot	STAS 200 V0 Grey	STAK 200 V0 Grey	–	–
Receptacles				
Panel mount, screw type	STASAP 2 B V0 Grey	STAKAP 2 V0 Grey	STASAP 3 N V0 Grey	STAKAP 3 N V0 Grey
Panel mount, screw type with coding slot	STASAP 200 V0 Grey	STAKAP 200 V0 Grey	–	–
Panel mount, crimp type	–	–	–	–
Front mount with flange, screw type	STASEI 2 V0 Grey	STAKEI 2 V0 Grey	STASEI 3 N V0 Grey	STAKEI 3 N V0 Grey
Front mount with flange, screw type with coding slot	STASEI 200 V0 Grey	STAKEI 200 V0 Grey	–	–
Front mount with flange, crimp type	–	–	–	–
Single-Ended Cordsets				
Straight	–	–	–	STAK 3 K 075 V0 * M Grey
Straight with safety bracket	STAS 2 K 075 SI V0 * M Grey	–	STAS 3 K 075 SI V0 * 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 V0 Grey	STAK 4 N V0 Grey	STAS 5 V0 Grey	STAK 5 V0 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 V0 Grey	STAKAP 5 V0 Grey
Front mount with flange, screw type	–	–	–	–
Front mount with flange, screw type with coding slot	–	–	–	–
Front mount with flange, crimp type	–	–	STASEI 5 V0 Grey	STAKEI 5 V0 Grey
Single-Ended Cordsets				
Straight	–	STAK 4 K 075 V0 * M Grey	–	–
Straight with safety bracket	STAS 4 K 075 SI V0 * 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

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

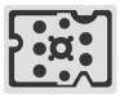
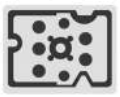
G Series

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

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

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

G | 30 | KW | 3 | F | 2M | GREY

Series Indicator

G = G Series

Pin Assigment

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

GO | 070 | WF

Series Indicator

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

Pin Assigment

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

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?

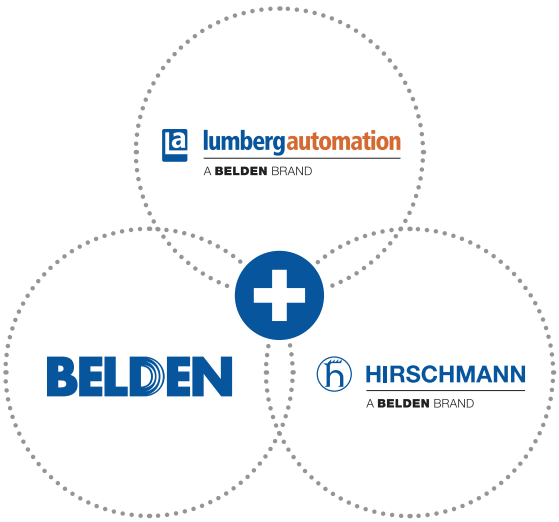
Then you simply get in touch with our Connectivity Center: the platform for custom-made solutions developed specifically for your needs. By combining all of our knowledge and internal resources, we will deliver the exact solution you need to smooth out your production process, warrant continuity and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

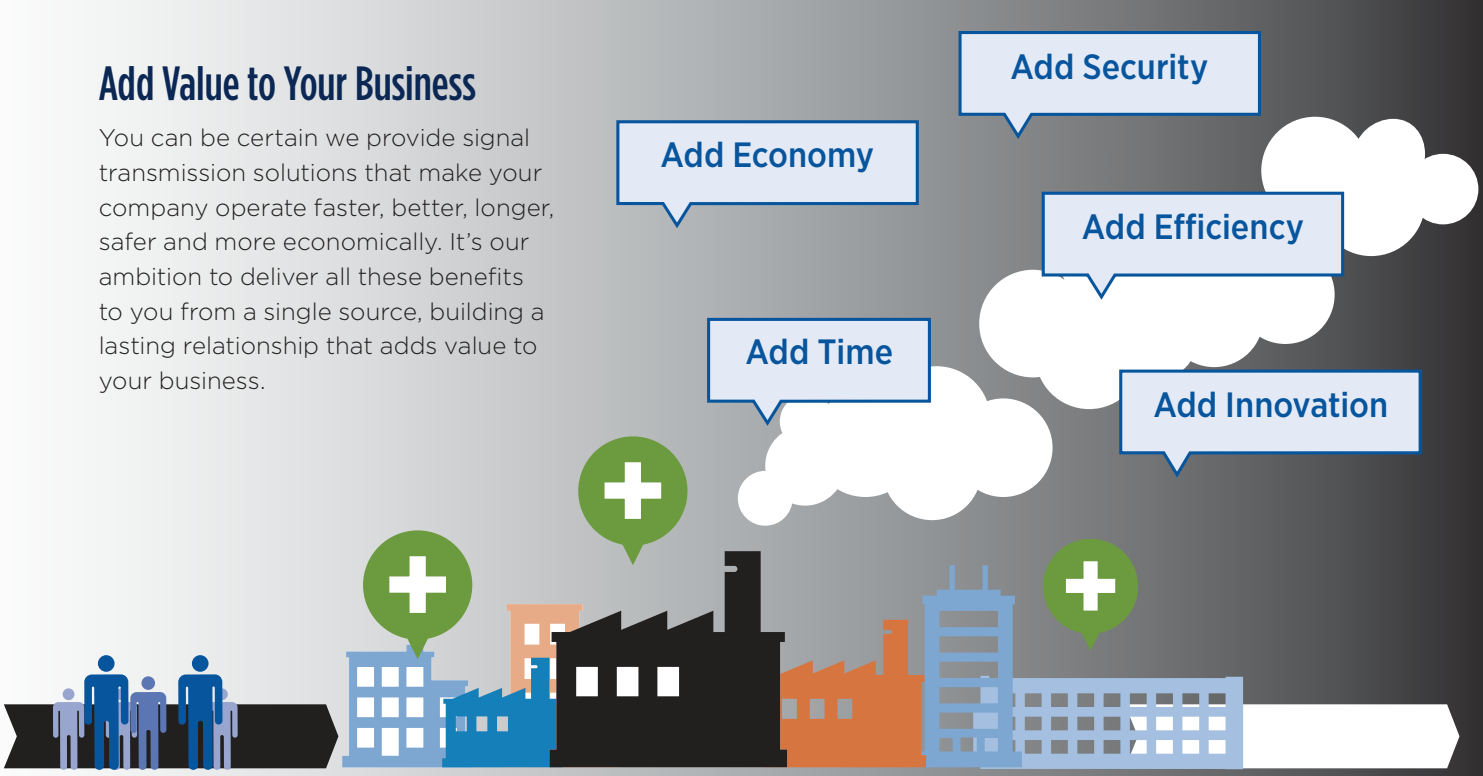


Pushing Technology, Meeting Standards

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.