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**HIRSCHMANN**

A BELDEN BRAND



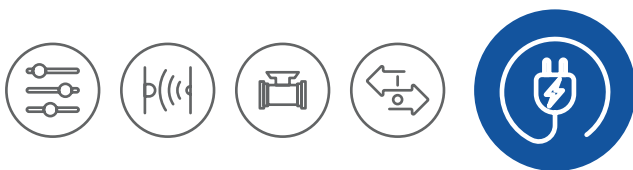
**lumbergautomation**

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

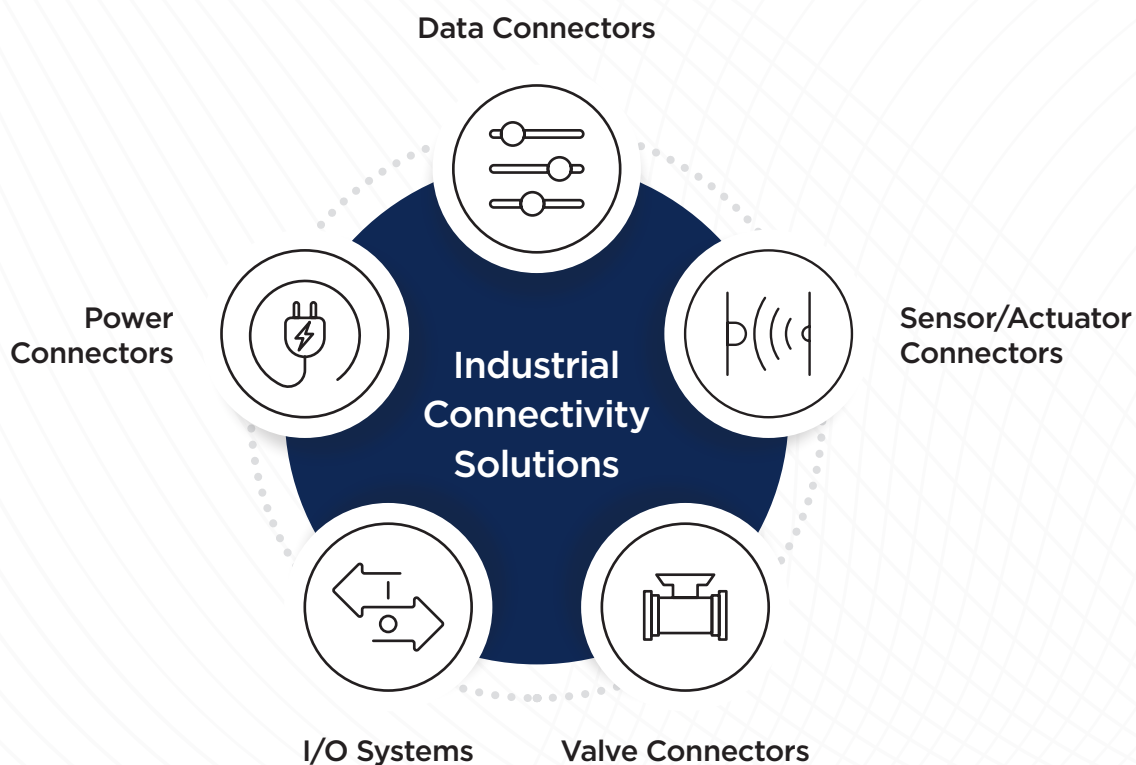


## Industrial Connectivity Solutions from Belden

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.

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## Two Strong Brands for Your Needs





## 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

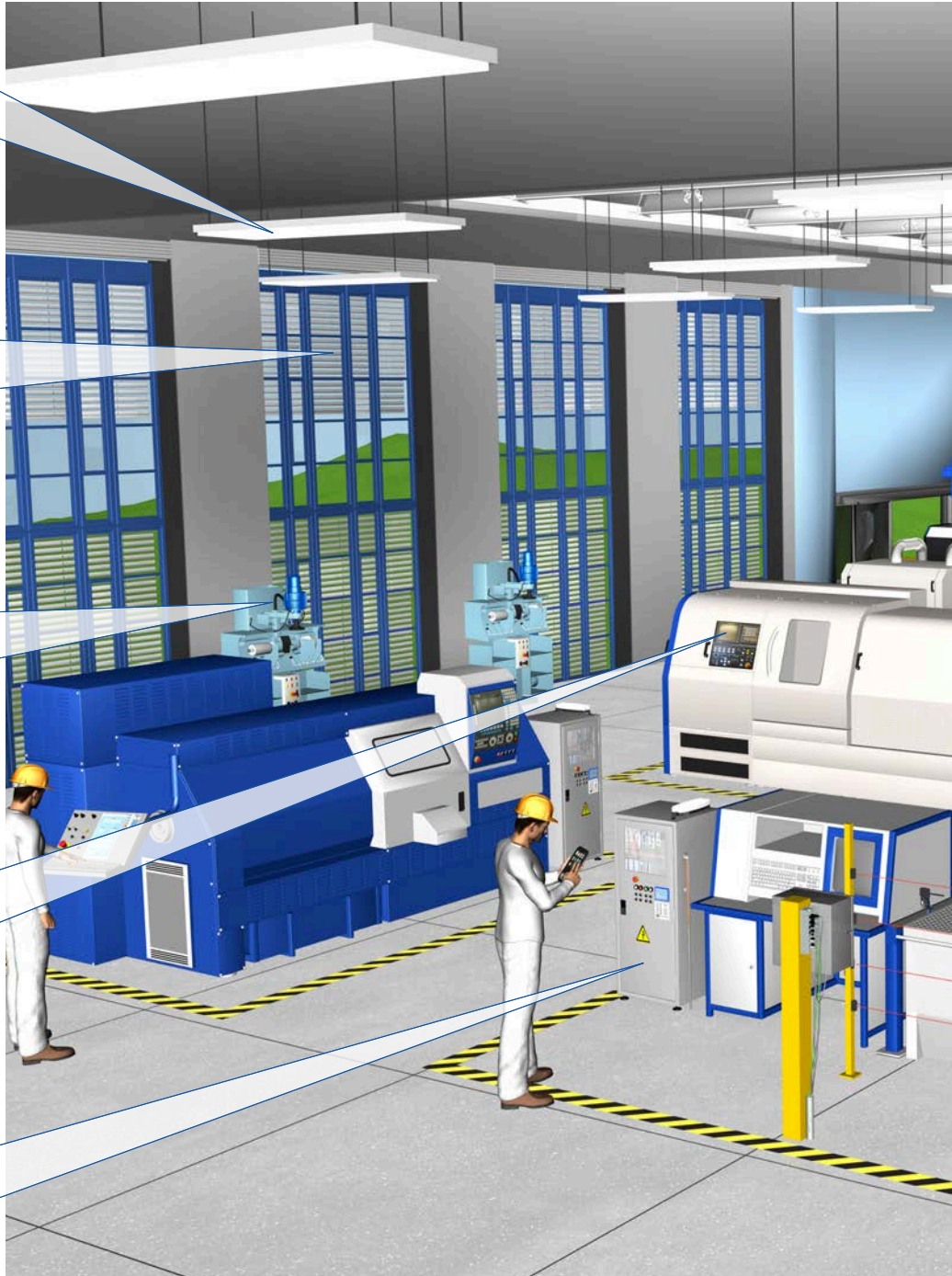
The perfect choice to interconnect machines and controls like HMIs (Human Machine

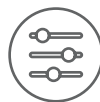
Interfaces)

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



Vibration and shock resistance



UL-approved



UV resistance



Oil, coolants, lubricants and emulsion resistance


































Drag chain suitability




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	




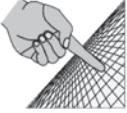

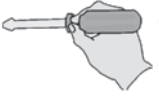





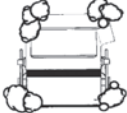




## Cable Material Comparison

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

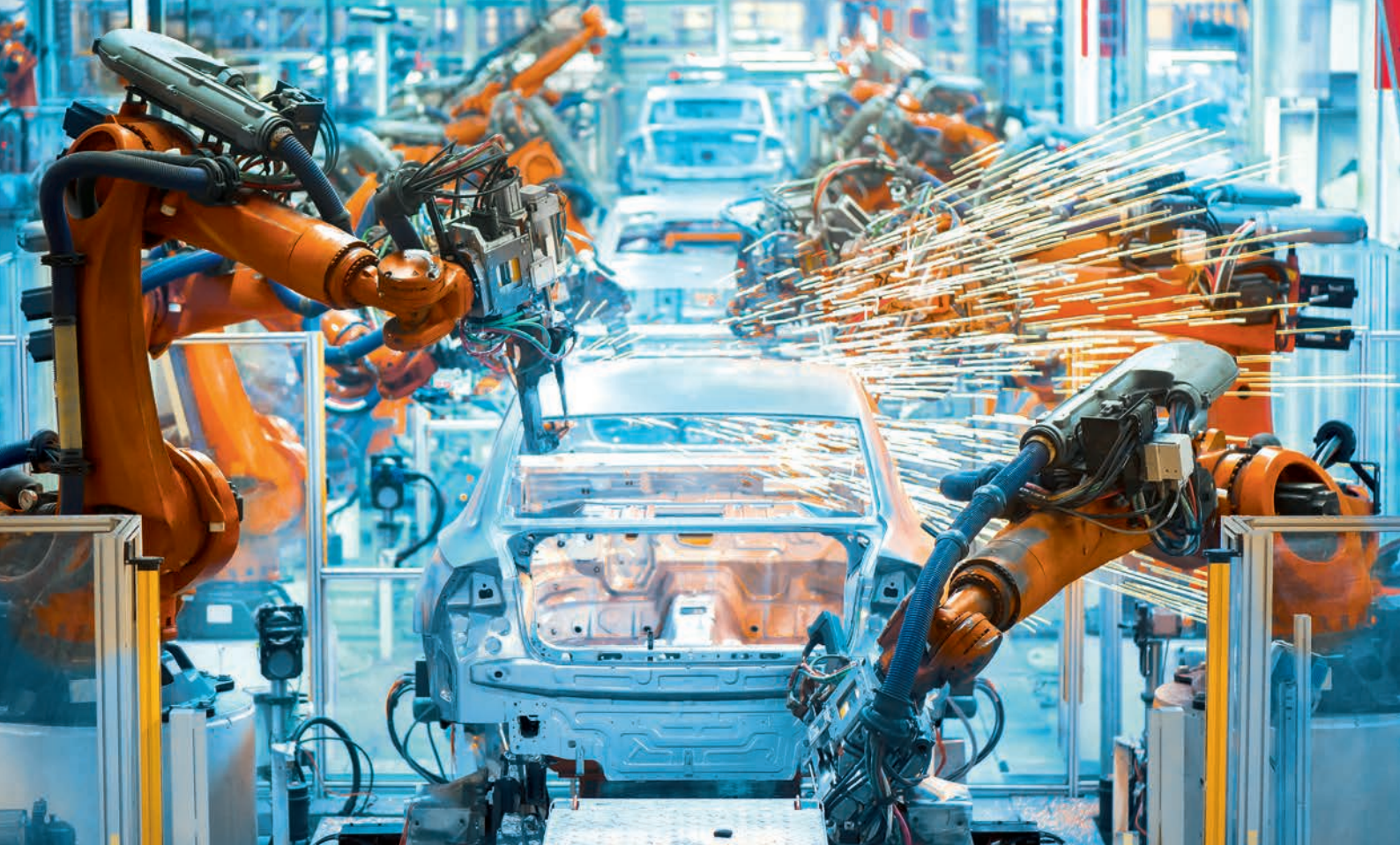
Please request datasheet for more detailed information

● = 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		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
	<b>General Data</b>	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				
	<b>Electrical Data</b>					
	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
	<b>Environmental Data</b>					
	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
					
	<b>General Data</b>	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
	<b>Electrical Data</b>				
	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
	<b>Environmental Data</b>				
	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
						
	<b>General Data</b>	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				
	<b>Electrical Data</b>					
	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
	<b>Environmental Data</b>					
	Ambient Temperature*	-40°C to +125°C				
	Protection Degree	IP65, IP67, IP69k				
	Approvals	VDE, UL				

\* Notice derating and cable temperature



## Accessories

### M12 Power Series

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

#### Cable Style

##### S- Coding Cables

733 = 4x1.5 mm<sup>2</sup>, PVC, Black  
703 = 4x1.5 mm<sup>2</sup>, PUR, Black

915 = 4x1.5 mm<sup>2</sup>, shielded, PVC, Black  
700 = 4x1.5 mm<sup>2</sup>, shielded, PUR, Black

##### T- Coding Cables

722 = 4x1.5 mm<sup>2</sup>, shielded, PUR, Black  
723 = 4x1.5 mm<sup>2</sup>, PUR, Black

##### L- Coding Cables

993 = 4x1.5 mm<sup>2</sup>, PVC, Black  
994 = 4x1.5 mm<sup>2</sup>, shielded, PVC, Black

995 = 4x1.5 mm<sup>2</sup>, TPE, Black  
996 = 4x1.5 mm<sup>2</sup>, TPE, Yellow  
723 = 4x1.5 mm<sup>2</sup>, PUR, Black

722 = 4x1.5 mm<sup>2</sup>, shielded, PUR, Black  
1000 = 5x1.5 mm<sup>2</sup>, TPE, Black  
1003 = 5x1.5 mm<sup>2</sup>, TPE, Yellow  
950 = 5x2.5 mm<sup>2</sup>, PUR, Grey  
949 = 5x1.5 mm<sup>2</sup>, PUR, Grey  
950 = 5x2.5 mm<sup>2</sup>, PUR, Grey  
956 = 5x1.5 mm<sup>2</sup>, shielded, PUR, Grey  
957 = 5x2.5 mm<sup>2</sup>, shielded, PUR, Grey

##### K- Coding Cables

736 = 5x0.75 mm<sup>2</sup>, PVC, Black  
735 = 5x1.5 mm<sup>2</sup>, PVC, Black

912 = 5x2.5 mm<sup>2</sup>, PVC, Black  
911 = 5x1.5 mm<sup>2</sup>, PUR, Black  
916 = 5x1.5 mm<sup>2</sup>, shielded, PVC, Black

921 = 5x2.5 mm<sup>2</sup>, shielded, PVC, Black  
910 = 5x1.5 mm<sup>2</sup>, shielded, PUR, Black

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

### Receptacles

#### Gender

RS = Male RK = Female

#### Housing Design

##### Brass Housing

H = Rear Mount

F = Front Mount

P = Postionable Front Mount

A = Flange Mount

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

##### Stainless Steel Housing

B = Rear Mount\*

N = Front Mount\*

J = Postionable Front Mount\*

Q = Flange Mount\*

#### 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 = 1.5mm<sup>2</sup>

034 = 2.5mm<sup>2</sup>\*

#### Cable Length

xM = Length in meters

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

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

### 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

### Field Attachables

#### Gender and Design

L & K Coding only (Crimp Termination)

RSCCS = Male connector, field attachable, 0°

RKCCS = Female connector, field attachable, 0°

S & T Coding only (Screw Termination)

RSCS = Male 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)

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

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

4T = T-coding, 4-pole

#### Cable Gland

11 = PG II



#### Contact Screw

Blank	= screw termination only	1,5	1.5 mm <sup>2</sup> crimp-contact
0,75*	0.75 mm <sup>2</sup> crimp-contact	2,5	2.50 mm <sup>2</sup> crimp-contact

\*note: on special request only

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

#### 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



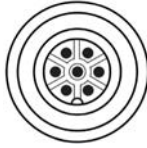



**Versatile to use** – technologically convincing connectivity solution for a wide range of applications

## Markets

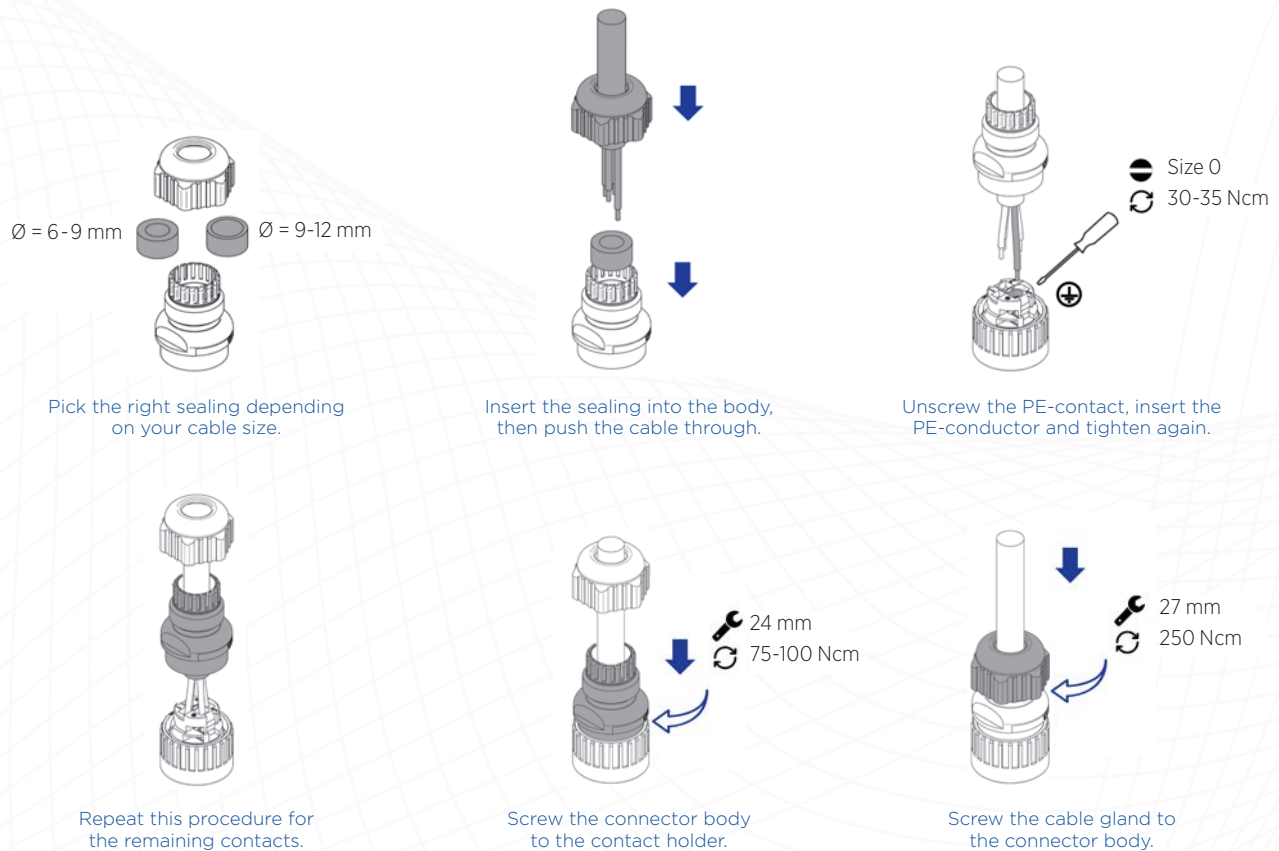
- Machine building
- Measurement and control
- Automation
- Logistics
- Infrastructure
- Material handling



## Technical Information

CA Series		3+PE Pole	6+PE Pole
			
	<b>Field Attachable</b>		
	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	
	<b>Electrical Data</b>		
	Operating Voltage	400 AC V / 250 V DC	250 V AC/DC
	Current	10A DC / 16A AC	10A
	<b>Environmental Data</b>		
	Ambient Temperature*	-40°C to +90°C	
	Protection Degree	IP67	
	Approvals	UL , VDE	



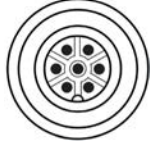



## CA Series – intuitive assembly in a jiffy





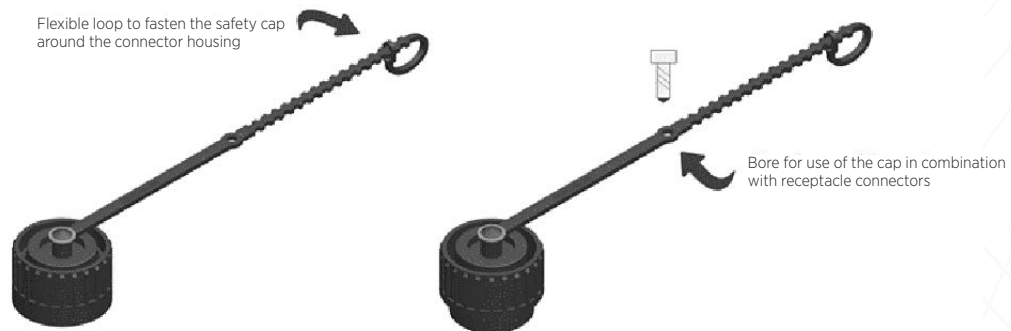




## Technical Information

CA Series		3+PE Pole	6+PE Pole
			
	<b>General Data</b>	<b>Receptacle</b>	
	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	
	<b>Electrical Data</b>		
	Operating Voltage	400 AC V / 250 V DC	250 V AC/DC
	Current	10A DC / 16A AC	10A
	<b>Environmental Data</b>		
	Ambient Temperature*	-40°C to +90°C	
	Protection Degree	IP67	
	Approvals	UL , VDE	

CA Series	Internal Thread	External Thread
		
<b>Accessories</b>		
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

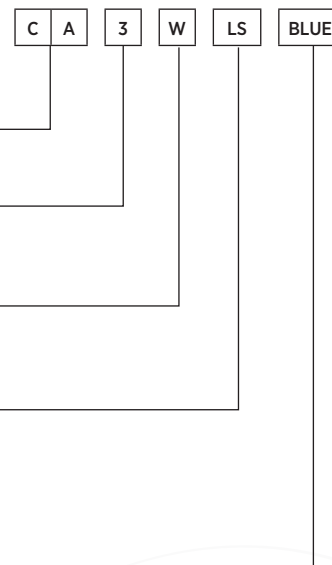
#### Housing | Contact Holder Color

BLACK = Black Housing

BLUE = Blue Housing

RED = Red Housing

WHITE = White Housing













## Technical Information

CM Series		4	5	6	6+PE
					
	<b>General Data</b>	CM 06 EA 14S-2 S	CM 06 EA 14S-5 S	CM 06 EA 14S-6 S	CM 06 EA 14S-6I 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			
	<b>Electrical Data</b>				
	Operating Voltage	50 V AC/DC	50 V AC/DC	50 V AC/DC	50 V AC/DC
	Current	10A	10A	10A	10A
	<b>Environmental Data</b>				
	Ambient Temperature*	-40°C to +90°C			
	Protection Degree	IP67			
	Approvals				



## Technical Information

CM Series		4	5	6	6+PE
					
	<b>General Data</b>	CM 02 E 14S-2 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 <sup>2</sup>	1 mm <sup>2</sup>	1 mm <sup>2</sup>	1 mm <sup>2</sup>
	<b>Electrical Data</b>				
	Operating Voltage	50 V AC/DC	50 V AC/DC	50 V AC/DC	50 V AC/DC
	Current	10A	10A	10A	10A
	<b>Environmental Data</b>				
	Ambient Temperature*	-40°C to +90°C			
	Protection Degree	IP67			
	Approvals				












## Technical Information

CM Series		7	14	17
				
	<b>General Data</b>	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		
	<b>Electrical Data</b>			
	Operating Voltage	50 V AC/DC	50 V AC/DC	50 V AC/DC
	Current	10A	5A	4A
	<b>Environmental Data</b>			
	Ambient Temperature*	-40°C to +90°C		
	Protection Degree	IP67		
	Approvals			





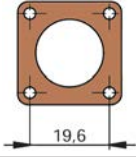
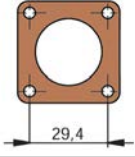
## Technical Information

CM Series		7	14	17
				
	<b>General Data</b>	CM 02 E 20-7 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		
	<b>Electrical Data</b>			
	Operating Voltage	50 V AC/DC	50 V AC/DC	50 V AC/DC
	Current	10A	5A	4A
	<b>Environmental Data</b>			
	Ambient Temperature*	-40°C to +90°C		
	Protection Degree	IP67		
	Approvals			



## Technical Information

### CM Series

Accessories		
	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
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
	<b>General Data</b>	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)				
	<b>Cable Data</b>					
	Jacket Type / Color	TPE, PVC, PUR / Yellow				
	AWG Size [ cross section ]	20 AWG [0.5mm <sup>2</sup> ] - 16 AWG [1.5mm <sup>2</sup> ]				
	<b>Electrical Data</b>					
	Operating Voltage	Up to 600 V AC/ DC				
	Current	12A	10A	10A	8A	5A
	<b>Environmental Data</b>					
	Ambient Temperature*	-40°C to +90°C				
	Protection Degree	IP68 (2h, 10 bar)				
	Approvals	UL				



## Product Configurator

### 7/8" Cordsets US Style

RS

RKW

301

-

733

/

2M

#### 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 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)  
60A = 6 pole (5+PE), male or female (male external thread)  
201 = 2 pole, male or female (male internal thread)  
301 = 3 pole (2+PE), male or female (male internal thread)  
401 = 4 pole, male or female (male internal thread)  
501 = 5 pole (4+PE), male or female (male internal 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  
603 = YELLOW, PVC, 2 x 18 AWG, IEC, AWM 20233  
731 = YELLOW, TPE, 3 x 18 AWG, IEC, PLTC  
601 = YELLOW, PVC, 3 x 18 AWG, EURO AC, AWM 2661  
645 = YELLOW, PUR, 3 x 18 AWG, IEC, AWM 20233  
838 = YELLOW, TPE, 3 x 16 AWG, US, TC-ER  
840 = RED, TPE, 3 x 16 AWG, US, TC-ER  
637 = YELLOW, TPE, 4 x 18 AWG, IEC, PLTC  
602 = YELLOW, PUR, 4 x 18 AWG, IEC, AWM 20233  
839 = YELLOW, TPE, 4 x 16 AWG, US, TC-ER  
841 = RED, TPE, 4 x 16 AWG, US, TC-ER  
794 = YELLOW, TPE, 5 x 18 AWG, IEC, PLTC  
877 = YELLOW, TPE, 5 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			
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 x01-
						
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
	<b>General Data</b>	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				
	<b>Wire Data</b>					
	Color Code	US Standard, IEC, Automotive, Numeric				
	AWG Size [ cross section ]	20 AWG [0.5mm <sup>2</sup> ] - 16 AWG [1.5mm <sup>2</sup> ]				
	<b>Electrical Data</b>					
	Operating Voltage	Up to 600 V AC/ DC				
	Current	12A	10A	10A	8A	5A
	<b>Environmental Data</b>					
	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](mailto:icos-sales@belden.com)




#### Cable Length

xM = Length in meters

0.5 M = 0.5 Meters, 1.5 M = 1.5 Meters

RKF 501 - 677 / 1.5M

#### 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
	<b>General Data</b>	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)			
	<b>Cable Data</b>	PVC / Orange			
	Jacket Type / Color	PVC / Orange			
	AWG Size [cross section]	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>	0.50mm <sup>2</sup>	0.50mm <sup>2</sup>
	<b>Electrical Data</b>				
	Rated Voltage	250 V AC/DC			
	Current	12A	12A	9A	9A
	<b>Environmental Data</b>				
	Ambient Temperature*	-40°C to +90°C			
	Protection Degree	IP68			



## Product Configurator

### 7/8" Cordsets European Style

RS RKW 30 - 01 / 2M

#### 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 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 mm<sup>2</sup>, IEC  
01 = ORANGE, PVC, 3 x 0.75 mm<sup>2</sup>, IEC  
02 = ORANGE, PVC, 4 x 0.50 mm<sup>2</sup>, IEC  
04 = ORANGE, PVC, 5 x 0.50 mm<sup>2</sup>, 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


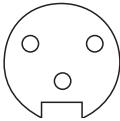
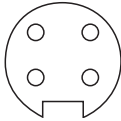
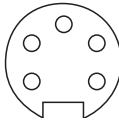





## Technical Information

7/8" European Style		2- Pole	3- Pole	4- Pole	5- Pole
	<b>General Data</b>	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			
	<b>Wire Data</b>				
	Color Code	IEC			
	AWG Size [cross section]	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>	0.5mm <sup>2</sup>	0.5mm <sup>2</sup>
	<b>Electrical Data</b>				
	Rated Voltage	Up to 250 V AC/ DC			
	Current	9A	9A	9A	9A
	<b>Environmental Data</b>				
	Ambient Temperature*	-25°C to +90°C			
	Protection Degree	IP68			



## Technical Information

7/8" Series		3- Pole	4- Pole	5- Pole
				
	<b>General Data</b>	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		
	<b>Cable Data</b>			
	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 <sup>2</sup>		
	<b>Electrical Data</b>			
	Operating Voltage	Up to 600 V AC/ DC for US market , 230 V AC/DC for European version		
	Current	12A	9A	9A
	<b>Environmental Data</b>			
	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, 2x0.75mm<sup>2</sup>, IEC Color Coded

02 = Stranded Conductors, 4x0.50mm<sup>2</sup>, IEC Color Coded

01 = Stranded Conductors, 3x0.75mm<sup>2</sup>, IEC Color Coded

04 = Stranded Conductors, 5x0.50mm<sup>2</sup>, 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

RKF 50 / 13.5 - 4 / 1.5M

### 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

#### 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)

RKC 301 / 11

#### Receptacle Nomenclature

Male	Female
External Thread	Internal Thread



RSF x0-

Replace "x" with number of poles



RKF x0/

#### Field Attachable Nomenclature

Male	Female
External Thread	Internal Thread



RSC x0



RSC x01-



RKC x0-



## Technical Information

7/8" Series		2- Pole	3- Pole	4- Pole	5- Pole	6- Pole
	<b>General Data</b>	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				
	<b>Electrical Data</b>					
	Operating Voltage	Up to 600 V AC/ DC				
	Current	12A	8A	8A	8A	5A
	<b>Environmental Data</b>					
	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
	<b>General Data</b>	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)		
	<b>Electrical Data</b>			
	Operating Voltage	Up to 600 V AC/ DC		
	Current	8A	8A	7A
	<b>Environmental Data</b>			
	Ambient Temperature*	-40°C to +90°C		
	Protection Degree	IP68 (2h, 10 bar)		
	Approvals			





## Technical Information

1" Series		6- Pole	7- Pole	8- Pole
	<b>General Data</b>	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		
	<b>Electrical Data</b>			
	Operating Voltage	Up to 600 V AC/ DC		
	Current	8A	8A	7A
	<b>Environmental Data</b>			
	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

RSRK 601B - 896 / 2M

### 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

RKf 601B - 696 / 1.5M

Singed 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							




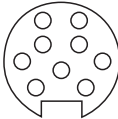
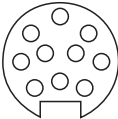
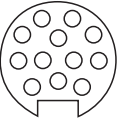
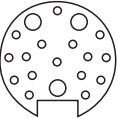



## Technical Information

1-1/8" Series		9- Pole	10- Pole	12- Pole	19- Pole
	<b>General Data</b>	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)			
	<b>Electrical Data</b>				
	Operating Voltage	Up to 600 V AC/ DC			300 V AC/ DC
	Current	7A	7A	5A	Signal 3A / Power 8A
	<b>Environmental Data</b>				
	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
					
	<b>General Data</b>	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			
	<b>Electrical Data</b>				
	Operating Voltage	Up to 600 V AC/ DC			300 V AC/ DC
	Current	7A	7A	5A	Signal 3A / Power 8A
	<b>Environmental Data</b>				
	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

90IM = 9 pole (8+PE), male (male external thread), or extension

100IM = 10 pole (9+PE), male (male external thread), or extension

120IM = 12 pole (11+PE), male (male external thread), or extension

190IM = 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

RSRK 120IM - S4678 / 2M

## 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)

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)

90IM = 9 pole (8+PE), male or female (female external thread)

100IM = 10 pole (9+PE), male or female (female external thread)

120IM = 12 pole (11+PE), male or female (female external thread)

190IM = 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

RKF 120IM - 624 / 1.5M










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

[belden.com](http://belden.com)



## 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"
	<b>General Data</b>	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			
	<b>Cable Data</b>				
	Jacket Type / Color	TC-ER TPE / Black			
	AWG Size	14 AWG	10 AWG or 14 AWG	14 AWG	10 AWG or 14 AWG
	<b>Electrical Data</b>				
	Operating Voltage	Up to 600 V AC/ DC			
	Current	18A	42A	15A	40A
	<b>Environmental Data</b>				
	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"
	<b>General Data</b>	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			
	<b>Electrical Data</b>				
	Operating Voltage	Up to 600 V AC/ DC			300 V AC/ DC
	Current	18A	30A	15A	25A
	<b>Environmental Data</b>				
	Ambient Temperature*	-40°C to +90°C			
	Protection Degree	IP65, IP67			
	Approvals	UL			

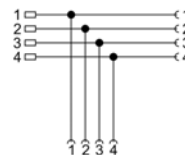
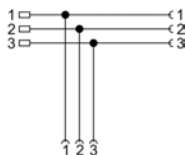


## Technical Information

### 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

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

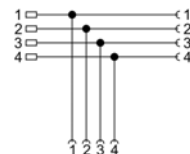
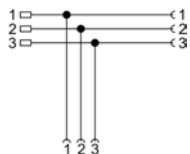


## Technical Information

### MINI Power



1-3/8" to 7/8"



	<b>General Data</b>	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	
	<b>Electrical Data</b>		
	Operating Voltage	Up to 600 V AC/ DC	
	Current	18A	15A
	<b>Environmental Data</b>		
	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°  
 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 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](mailto:icos-sales@belden.com)

#### Cable Length

xM = Length in meters

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

RSPA 3 - 800 / 2M

Singed Ended Cordset		Doubled Ended Cordset		Singed 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

### 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](mailto: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	RKFP 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


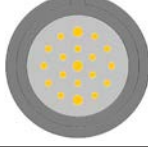




Flexible solutions – including straight and angled molded as well as field attachable versions

## Markets

- Machine building
- Automation
- Automotive
- Infrastructure



## Technical Information

M23 Series		Approvals	12 Pole	19 Pole
				
	<b>General Data</b>		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	
	<b>Cable Data</b>			
	Jacket Type / Color		PUR, TPE	
	AWG Size		8x0.5mm <sup>2</sup> + 3x1.0mm <sup>2</sup>	16x0.5mm <sup>2</sup> + 3x1.0mm <sup>2</sup>
	<b>Electrical Data</b>			
	Operating Voltage		Up to 120V AC/ DC	
	Current		8A	16 x 8A+ 3 x 10A
	<b>Environmental Data</b>			
	Ambient Temperature*		-25°C to +80°C	
	Protection Degree		IP65, IP67	





## Technical Information

M23 Series		12 Pole	19 Pole
			
	<b>General Data</b>	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	
	<b>Cable Data</b>		
	Suitable Cables	Ø 10 mm to Ø 14 mm	
	Conductor Cross Section	Max 1.0 mm <sup>2</sup>	Max 16x1.0mm <sup>2</sup> + 3x1.5mm <sup>2</sup>
	<b>Electrical Data</b>		
	Operating Voltage	Up to 120V AC/ DC	
	Current	8A	16 x 8A+ 3 x 10A
	<b>Environmental Data</b>		
	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 = 8x0.5mm<sup>2</sup> + 3x1.0mm<sup>2</sup>, PUR Black, IEC Coded

137 = 12x1.0mm<sup>2</sup>, PUR Black, Numeric Coded + GN/YE ground

285 = 10x0.75mm<sup>2</sup> + 2x1x0.75mm<sup>2</sup>, PVC, Yellow, IEC Coded

S4741 = 8x0.5mm<sup>2</sup> + 3x1.0mm<sup>2</sup>, TPE Yellow, IEC Color Coded

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

19 Pole Cable options

242 = 16x0.5mm<sup>2</sup> + 3x1.0mm<sup>2</sup>, PUR Black, IEC Coded

262 = 16x0.5mm<sup>2</sup> + 3x1.0mm<sup>2</sup>, PUR Grey, IEC Coded

352 = 16x0.5mm<sup>2</sup> + 3x1.0mm<sup>2</sup>, PUR Black, IEC Coded, Braided Shield

S4740 = 16x0.5mm<sup>2</sup> + 3x1.0mm<sup>2</sup>, TPE Yellow, IEC Coded

#### Wire Lengths

0.3M = 0.3 Meters

1.3M = 1.3 Meters

3M = 3 Meters

RKWU 19 242 / 10M

#### 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

### 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

RKC 120 / 13.5

Male		Singed Ended Cordset		Accessories	
		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)
					
	<b>General Data</b>				
	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 <sup>2</sup>	max. 1.5 mm <sup>2</sup>	max. 1.5 mm <sup>2</sup>	max. 1.0 mm <sup>2</sup>
	Cable Material (molded)	H05RR	H05RR	H05RR	-
	Conductor Size (molded)	0.75 mm <sup>2</sup>	0.75 mm <sup>2</sup>	0.75 mm <sup>2</sup>	-
	Housing Color	Grey, Black	Grey, Black	Grey, Black	Grey, Black
	<b>Electrical Data</b>				
	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
	<b>Environmental Data</b>				
	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

### 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 mm<sup>2</sup>

#### 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

#### 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

STAS 3N VO GREY



## Order Overview

### ST Series

	3-pole (2 + PE)		4-pole (3 + PE)	
	Male	Female	Male	Female
<div>1. Choose Coding →</div> <div>↓ 2. Choose Design</div>				
<b>Field Attachables</b>				
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	-	-
<b>Receptacles</b>				
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	-	-	-	-
<b>Single-Ended Cordsets</b>				
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	-
<b>Accessories</b>				
Safety bracket	STASI 2		STASI 3	

### ST Series

	5-pole (4 + PE)		6-pole (5 + PE)	
	Male	Female	Male	Female
<div>1. Choose Coding →</div> <div>↓ 2. Choose Design</div>				
<b>Field Attachables</b>				
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	-	-	-	-
<b>Receptacles</b>				
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
<b>Single-Ended Cordsets</b>				
Straight	-	STAK 4 K 075 V0 * M Grey	-	-
Straight with safety bracket	STAS 4 K 075 SI V0 * M Grey	-	-	-
<b>Accessories</b>				
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
						
	<b>General Data</b>					
	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 <sup>2</sup> to 0.5 mm <sup>2</sup>	0.15 mm <sup>2</sup> to 0.5 mm <sup>2</sup>	0.15 mm <sup>2</sup> to 0.5 mm <sup>2</sup>	0.25 mm <sup>2</sup> to 1.0 mm <sup>2</sup>
	Cable Material (molded)	PVC	PVC	PVC	-	-
	Conductor Size (molded)	0.75 mm <sup>2</sup>	1.0 mm <sup>2</sup>	0.75 mm <sup>2</sup> , 1.0 mm <sup>2</sup>	-	-
		Housing Color	Black, Grey	Black, Grey	Black	Black
	<b>Electrical Data</b>					
	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
	<b>Environmental Data</b>					
	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

\* 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				
<b>Field Attachables</b>				
G Series, angled, solder type	-	-	-	G 20 W 3 F Grey
<b>Receptacles</b>				
G Series, solder type	-	-	-	-
<b>Single-Ended Cordsets</b>				
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				
<b>Field Attachables</b>				
G Series, angled, solder type	-	G 30 W 3 F Grey	-	G 4 W 1 F Grey
<b>Receptacles</b>				
G Series, solder type	G 30 A 3 M Grey	G 30 E 3 F Grey	G 4 A 1 M Grey	-
<b>Single-Ended Cordsets</b>				
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				
<b>Field Attachables</b>				
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	-	-	-	-
<b>Receptacles</b>				
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				
<b>Field Attachables</b>				
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)
<b>Receptacles</b>				
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](mailto:icos-sales@belden.com)

#### Housing Color

GREY = Grey housing

BLACK = Black housing

G 30 KW 3 F 2M GREY

## 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)

GO 070 WF



Economical connectivity solutions off the shelf and custom-made

## 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.

## 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.





## 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.

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