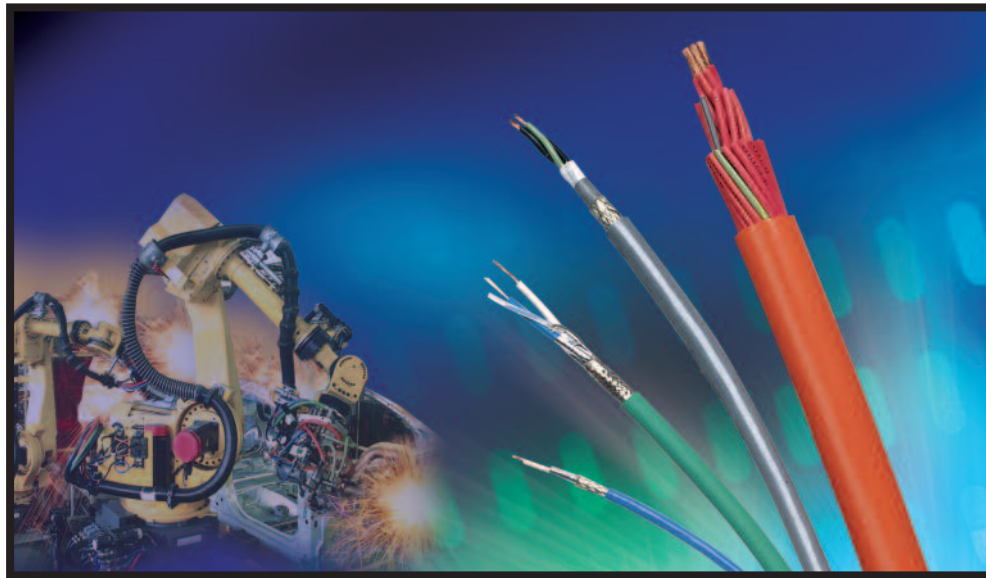


**NP 303**

**Belden Infinity® Cables**

These highly flexible control, power, video and data cables handle the rigorous speeds and near-constant motion of C-track systems, robots, pick-and-place machines, automatic handling systems, multi-axis machine tools, conveyor systems and wind turbines.



**Belden Infinity 'Continuous-flexing' Cables Are Built Rugged For High Performance In Any Type of Environment and Include Enhanced Approvals**



Featured Brand

**BELDEN**

Be Certain with Belden

With Belden, you can be confident that the cables you need will be delivered to you when and where you need them, they will be of consistent high quality, and our service and support will satisfy any and all of your requirements.

The Belden Infinity line is indicative of this promise, consisting of four high performance cable families built specifically for the rigors of mission-critical, continuous flexing applications. The Belden Infinity C-TC+, FCC, Flex Data and Flex Vision cables help ensure maximum uptime, even when they must operate in the harshest or most extreme environments.

To maximize the cables' flex life and reliability, Belden combines specialized manufacturing techniques with precision copper stranding and rugged insulation and jacketing compounds.

**Belden Infinity C-TC+ Cables for Extreme Flexing**

To ensure optimal performance at 10 million flex cycles, Belden utilizes a unique cable manufacturing process for its Belden Infinity C-TC+ cables that nearly eradicates cable memory. The cable's special construction also eliminates the performance concerns associated with conductor torque and fatigue.

With this rugged, high performance construction, and the inclusion of oil-, sunlight- and abrasion-resistant Belflex® jackets, C-TC+ cables meet the NFPA requirements for industrial machinery. They are ideal for extreme flexing applications such as C-track systems, wind turbines, robots, multi-axis machining, automated assembly systems, material handling systems, pick-and-place retrieval, automated storage systems and gantry systems.

**Belden Infinity FCC Cables For Moderate Flexing**

Belden Infinity FCC cables feature oil-, sunlight- and abrasion-resistant Belflex jackets to meet the NFPA requirements for industrial machinery. They are appropriate for C-track and moderate flexing environments of over 1 million flex cycles, making them a cost-effective alternative to C-TC+ cables in applications such as machine tool, assembly lines and control systems.

**Belden Infinity Flex Data Cables**

For the effective operation of computer-controlled equipment or other automation production processes, specify Belden Infinity Flex Data cables.

Belden 300V Flex Data twisted pair cables can withstand 1 million flex cycles with 24 AWG highly stranded bare copper conductors (41x40) for exceptional flexibility, overall Beldfoil® + 85% tinned copper braid shield, foam polyethylene insulation (with skin) and PVC jacket. The cables are rated RS-232/485 or RS-232/422 (part no. 7205A) and they have a temperature rating of -20° to +60°C.

**Belden Infinity Flex Vision Cables**

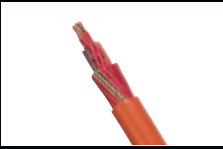
Belden Infinity Flex Vision cables are designed for use in machine vision applications such as inspection and measurement devices, automated warehouse equipment, automated production processes and motion controlled video.

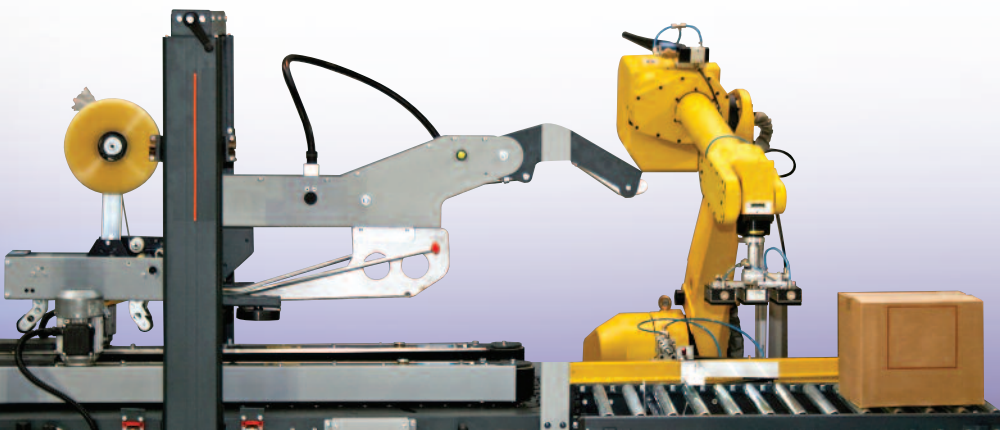
Belden 75 Ohm Flex Vision coaxial cables can withstand 1 million flex cycles and are rated UL AWM Style 1354. They have stranded conductors for greater flexibility, foam polyethylene insulation, tinned copper "French Braid" shield for 95% shield coverage, and a PVC jacket.

## Belden Infinity C-TC+ Cable (10 Million Flex Cycles)

|          | Non-Shielded |                   | 85% Braid Shielded |                   |
|----------|--------------|-------------------|--------------------|-------------------|
|          | Part No.     | No. of Conductors | Part No.           | No. of Conductors |
| 20 Gauge | 7101W        | 3                 |                    |                   |
|          | 7102W        | 4                 |                    |                   |
|          | 7105W        | 9                 |                    |                   |
|          | 7106W        | 12                | 7106WS             | 12                |
|          | 7107W        | 18                |                    |                   |
|          | 7108W        | 25                |                    |                   |
| 18 Gauge | 7110W        | 3                 |                    |                   |
|          | 7111W        | 4                 | 7111WS             | 4                 |
|          | 7113W        | 7                 |                    |                   |
|          | 7116W        | 18                |                    |                   |
|          | 7117W        | 25                |                    |                   |
| 16 Gauge | 7122W        | 3                 |                    |                   |
|          | 7123W        | 4                 | 7123WS             | 4                 |
|          | 7125W        | 7                 |                    |                   |
|          | 7126W        | 9                 |                    |                   |
|          | 7127W        | 12                |                    |                   |
|          | 7129W        | 25                | 7129WS             | 25                |
| 14 Gauge |              |                   | 7136WS             | 4                 |
| 12 Gauge | 7145W        | 4                 |                    |                   |

| Cable Specifications     |                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Conductors</b>        | Fine Stranded Tinned Copper Conductors                                                                                                                                                                                                                                                                                                                                                  |
| <b>Insulation</b>        | PVC/Nylon                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Shielding</b>         | Tinned Copper Braid (85% Coverage)<br>Non-Shielded Version also available                                                                                                                                                                                                                                                                                                               |
| <b>Jacket</b>            | Belflex                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Jacket Color</b>      | Orange                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Voltage Rating</b>    | 600V UL TC-ER (18 AWG & Larger)<br>300V UL PLTC-ER (20 AWG)<br>1000V CSA AWM I/II A/B<br>1000V WTTC (18 AWG & Larger)                                                                                                                                                                                                                                                                   |
| <b>Temperature Range</b> | -40°C to +90°C (Cold Impact)<br>-50°C to +90°C (Cold Bend)                                                                                                                                                                                                                                                                                                                              |
| <b>Approvals</b>         | UL TC-ER (18 AWG & Larger)<br>UL PLTC-ER (20 AWG)<br>UL MTW & AWM<br>UL Oil Res I & II<br>IEEE 1202/383<br>CSA AWM I/II A/B FT4<br>Sunlight Resistance<br>UL Direct Burial<br>NFPA 79 for Industrial Machinery<br>Class I & II Div 2 Suitable for Hazardous Location Installation<br>C(UL) Type TC & C/IC FT4<br>WTTC<br>CE & RoHS Compliant<br>CA Prop 65 Compliant<br>REACH Compliant |

| C-TC+                                                                                                           | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                    | ●                                                                                     | ●                                                                                     | ●                                                                                     | ●                                                                                     | ●                                                                                     | ●                                                                                     |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Application Guide</b><br> | C-Track System                                                                      | Multi-Axis Machining                                                                | Robotics                                                                            | Automated Assembly Systems                                                          | Material Handling System                                                            | Pick & Place Retrieval                                                              | Automated Storage                                                                   | Gantry Systems                                                                      | Machine Vision                                                                       | Motion-Controlled Video                                                               | Inspection & Measurement Equipment                                                    | Festooning                                                                            | Servo                                                                                 | Power                                                                                 | Wind Turbines                                                                         |
| Oil-, Sunlight- & Abrasion-Resistant<br>600V UL TC-ER Rated                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



## Belden Infinity FCC Cable (1 Million Flex Cycles)

|          | Non-Shielded |                   | 85% Braid Shielded |                   |
|----------|--------------|-------------------|--------------------|-------------------|
|          | Part No.     | No. of Conductors | Part No.           | No. of Conductors |
| 20 Gauge | 7400W        | 2                 |                    |                   |
|          | 7401W        | 3                 | 7401WS             | 3                 |
|          | 7402W        | 4                 |                    |                   |
|          | 7403W        | 5                 | 7403WS             | 5                 |
|          | 7404W        | 7                 | 7404WS             | 7                 |
|          | 7405W        | 9                 |                    |                   |
|          | 7406W        | 12                |                    |                   |
|          | 7407W        | 18                |                    |                   |
| 18 Gauge | 7408W        | 25                | 7408WS             | 25                |
|          | 7409W        | 2                 |                    |                   |
|          | 7410W        | 3                 | 7410WS             | 3                 |
|          | 7411W        | 4                 | 7411WS             | 4                 |
|          | 7412W        | 5                 |                    |                   |
|          | 7413W        | 7                 | 7413WS             | 7                 |
|          | 7414W        | 9                 |                    |                   |
|          | 7415W        | 12                | 7415WS             | 12                |
| 16 Gauge | 7416W        | 18                | 7416WS             | 18                |
|          | 7417W        | 25                | 7417WS             | 25                |
|          | 7418W        | 34                |                    |                   |
|          | 7421W        | 2                 |                    |                   |
|          | 7422W        | 3                 | 7422WS             | 3                 |
|          | 7423W        | 4                 | 7423WS             | 4                 |
|          | 7424W        | 5                 |                    |                   |
|          | 7425W        | 7                 |                    |                   |
| 14 Gauge | 7426W        | 9                 |                    |                   |
|          | 7427W        | 12                | 7427WS             | 12                |
|          | 7428W        | 18                | 7428WS             | 18                |
|          | 7429W        | 25                | 7429WS             | 25                |
|          | 7430W        | 34                |                    |                   |
|          | 7435W        | 3                 | 7435WS             | 3                 |
|          | 7436W        | 4                 |                    |                   |
|          | 7438W        | 7                 | 7438WS             | 7                 |
|          | 7439W        | 9                 |                    |                   |
|          | 7440W        | 12                |                    |                   |
|          | 7442W        | 25                |                    |                   |

|          | Non-Shielded |                   | 85% Braid Shielded |                   |
|----------|--------------|-------------------|--------------------|-------------------|
|          | Part No.     | No. of Conductors | Part No.           | No. of Conductors |
| 12 Gauge | 7444W        | 3                 |                    |                   |
|          | 7445W        | 4                 | 7445WS             | 4                 |
| 10 Gauge | 7447W        | 4                 | 7447WS             | 4                 |
| 8 Gauge  |              |                   | 7450WS             | 4                 |
| 6 Gauge  | 7453W        | 4                 |                    |                   |

### Cable Specifications

|                          |                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Conductors</b>        | Fine Stranded Tinned Copper Conductors                                                                                                                                                                                                                                                                                                                                                 |
| <b>Insulation</b>        | PVC/Nylon                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Shielding</b>         | Tinned Copper Braid (85% Coverage)<br>Non-Shielded Version also available                                                                                                                                                                                                                                                                                                              |
| <b>Jacket</b>            | Belflex                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Jacket Color</b>      | Chrome                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Voltage Rating</b>    | 600V UL TC-ER (18 AWG & Larger)<br>300V UL PLTC-ER (20 AWG)<br>1000V CSA AWM I/II A/B<br>1000V WTTC (18 AWG & Larger)                                                                                                                                                                                                                                                                  |
| <b>Temperature Range</b> | -40°C to +90°C (Cold Impact)<br>-50°C to +90°C (Cold Bend)                                                                                                                                                                                                                                                                                                                             |
| <b>Approvals</b>         | UL TC-ER (18 AWG & Larger)<br>UL PLTC-ER (20 AWG)<br>UL MTW & AWM<br>UL Oil Res I & II<br>IEEE 1202/383<br>CSA AWM I/II A/B FT4<br>Sunlight Resistance<br>UL Direct Burial<br>NFPA 79 for Industrial Machinery<br>Class I & II Div 2 Suitable for Hazardous Location Installation<br>C(UL) Type TC & CIC FT4<br>WTTC<br>CE & RoHS Compliant<br>CA Prop 65 Compliant<br>REACH Compliant |

| FCC                                                                                                             | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                    | ●                                                                                     | ●                                                                                     | ●                                                                                     | ●                                                                                     | ●                                                                                     | ●                                                                                     | ●                                                                                     |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Application Guide</b><br> | C-Track System                                                                      | Multi-Axis Machining                                                                | Robotics                                                                            | Automated Assembly Systems                                                          | Material Handling System                                                            | Pick & Place Retrieval                                                              | Automated Storage                                                                   | Gantry Systems                                                                       | Machine Vision                                                                        | Motion-Controlled Video                                                               | Inspection & Measurement Equipment                                                    | Festooning                                                                            | Servo                                                                                 | Power                                                                                 | Wind Turbines                                                                         |
| Oil-, Sunlight- & Abrasion-Resistant<br>600V UL TC-ER Rated                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

# Be Certain with Belden



## Belden Infinity Flex Data Cable (1 Million Flex Cycles)

|          | Part No. | No. of Pairs | RS-Type  | Impedance (Ω) |
|----------|----------|--------------|----------|---------------|
| 24 Gauge | 7200A    | 1            | 232, 485 | 120           |
|          | 7201A    | 2            | 232, 485 | 120           |
|          | 7202A    | 3            | 232, 485 | 120           |
|          | 7203A    | 4            | 232, 485 | 120           |
|          | 7205A    | 1            | 232, 422 | 100           |
|          | 7206A    | 1            | 232, 485 | 150           |

| Cable Specifications |                                                                                                                                      |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Conductors           | Fine Stranded Bare Copper Conductors                                                                                                 |
| Insulation           | Foam Polyethylene Insulation with Skin                                                                                               |
| Shielding            | Overall Beldfoil® Shield with Tinned Copper Braid (85% Coverage)                                                                     |
| Jacket               | PVC                                                                                                                                  |
| Jacket Color         | Green                                                                                                                                |
| Voltage Rating       | 300 V RMS                                                                                                                            |
| Temperature Range    | -20°C to +60°C                                                                                                                       |
| Approvals            | UL & C(UL) CM Rated<br>UL Oil Res I & II<br>RS-232/485<br>RS-232/422 (Part No. 7205A)<br>CE & RoHS Compliant<br>CA Prop 65 Compliant |

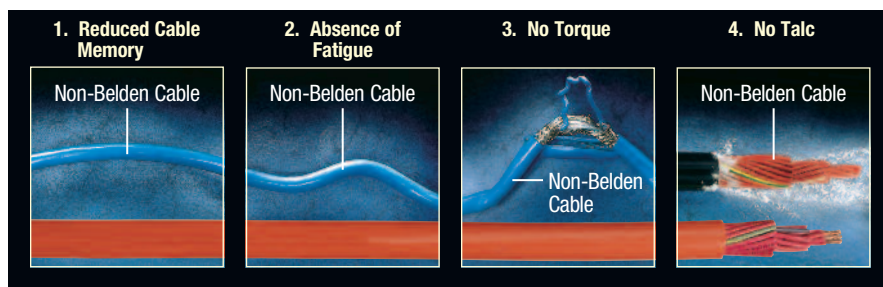
| Flex Data                                                                          | ●                                                                                   | ●                                                                                   |                                                                                     | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   |                                                                                     |                                                                                       | ●                                                                                     | ●                                                                                     |                                                                                       |                                                                                       |                                                                                       |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Application Guide                                                                  | C-Track System                                                                      | Multi-Axis Machining                                                                | Robotics                                                                            | Automated Assembly Systems                                                          | Material Handling System                                                            | Pick & Place Retrieval                                                              | Automated Storage                                                                   | Gantry Systems                                                                      | Machine Vision                                                                      | Motion-Controlled Video                                                               | Inspection & Measurement Equipment                                                    | Festooning                                                                            | Servo                                                                                 | Power                                                                                 | Wind Turbines                                                                         |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Oil- & Abrasion-Resistant<br>UL & C(UL) Rated                                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |



# Be Certain with Belden



## Belden Infinity Cables Offer Better Performance, Longer Life for Your Applications



Belden Infinity Cables help ensure maximum uptime, even in the harshest and most extreme environments.

### C-TC+ and FCC Control Cables: Easy Flexing, Longer Flex Life

Unlike conventional cables and cordage, Belden Infinity C-TC+ and FCC cables offer the following benefits to the end-user:

#### 1. Reduced Cable Memory:

Belden cables are produced in a neutralized or relaxed state and they remain in this state throughout their use so they exhibit greater flex life.

#### 2. Absence of Fatigue:

The absence of central core conductors means easy flexing. Central core conductors are susceptible to fatigue and failure due to the intense forces placed on them.

#### 3. No Torque:

Each layer of insulated conductors is cabled in an opposite direction from the preceding layer to eliminate torque. The inherent twist induced in other cable brands causes the internal conductors to torque and the cable to corkscrew.

#### 4. No Talc:

An OSHA-compliant, inert slipper compound reduces friction and facilitates flexing. Cables that contain airborne contaminants such as talc can be toxic, irritating, and may contaminate systems, components or machinery.



## Belden Infinity Flex Vision Cable (1 Million Flex Cycles)

| Part No. | RG-Type  | AWG | Stranding |
|----------|----------|-----|-----------|
| 7500A    | Sub-Mini | 30  | 7x38      |
| 7501A    | Mini     | 26  | 19x38     |
| 7502A    | 59       | 22  | 19x34     |
| 7503A    | 6        | 20  | 7x15x40   |
| 7504A    | 11       | 16  | 7x37x40   |

| Cable Specifications     |                                                                                              |
|--------------------------|----------------------------------------------------------------------------------------------|
| <b>Conductors</b>        | Fine Stranded Bare Copper Conductor*                                                         |
| <b>Insulation</b>        | Foam Polyethylene Insulation                                                                 |
| <b>Shielding</b>         | Tinned Copper Braid (95% Coverage)                                                           |
| <b>Jacket</b>            | PVC                                                                                          |
| <b>Jacket Color</b>      | Blue                                                                                         |
| <b>Voltage Rating</b>    | 30 V RMS (UL AWM Style 1354)                                                                 |
| <b>Temperature Range</b> | -40°C to +80°C                                                                               |
| <b>Approvals</b>         | UL AWM Style 1354<br>30V CSA AWM I/II A/B FT1<br>CE & RoHS Compliant<br>CA Prop 65 Compliant |

\* 7500A has a tinned copper alloy conductor

| Flex Vision                                                                         | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                   | ●                                                                                    | ●                                                                                     | ●                                                                                     | ●                                                                                     | ●                                                                                     | ●                                                                                     | ●                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Application Guide                                                                   | C-Track System                                                                      | Multi-Axis Machining                                                                | Robotics                                                                            | Automated Assembly Systems                                                          | Material Handling System                                                            | Pick & Place Retrieval                                                              | Automated Storage                                                                   | Gantry Systems                                                                      | Machine Vision                                                                       | Motion-Controlled Video                                                               | Inspection & Measurement Equipment                                                    | Festooning                                                                            | Servo                                                                                 | Power                                                                                 | Wind Turbines                                                                         |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30V UL/CSA Rated                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |

### For More Information

For complete technical information, refer to Belden's e-catalog at [www.belden.com](http://www.belden.com). Or, for special or custom cable construction information, call 1.800.BELDEN.1

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

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