

# MetaSys<sup>®</sup>

## Wire & Cable and Accessories Catalog



Revision III

JOHNSON  
CONTROLS

**ANIXTER**



Anixter is the world's leading supplier of communications products used to connect voice, video, data and security systems. Anixter is also the leading provider of electrical and electronic wire and cable, fasteners, and other small components to build, repair, and maintain a variety of systems and equipment. We bundle our products with our innovative Supply Chain Services to cut costs out of our customers' business processes, and ensure they get the right product, the first time.

If you are interested in learning more about the Anixter-Johnson Controls MetaSys® program or would like to place an order, please contact your Anixter sales representative.

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1-800-323-8167

HOURS OF OPERATION

7:00 a.m. to 7:00 p.m. CST



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# 24 V AC 18-2C PLENUM

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**ANIXTER PART NO.**

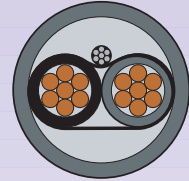
**CBL-18/2GRY-PLN-REEL**  
**CBL-18/2GRY-PLN-BOX**

Description	18/2 shielded plenum communications cable
Construction	This cable consists of a) two bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800—CMP, CE, RoHS

**CONSTRUCTION PARAMETERS**

**CABLE CROSS-SECTION**

Conductor and Stranding	18 AWG bare copper, 7x26
Insulation Material and Thickness	Low smoke PVC, 0.009"
Number of Conductors	2
Shield	Alum/poly, 100% coverage
Drain	20 AWG 7x28 tinned copper
Jacket Material and Thickness	Low smoke PVC, 0.015"
Overall Cable Diameter	0.162" nominal
Approximate Cable Weight	21.4 lbs/1,000 ft
Flame Rating	UL: UL 910/NFPA 262 c(UL): FT6



**NorthFlex®**

**ELECTRICAL AND ENVIRONMENTAL PROPERTIES**

Temperature Rating	0 °C to 75 °C
Operating Voltage	300 V rms maximum
Capacitance Between Conductors @ 1 kHz	70 pF/ft nominal
Nominal Conductor DC Resistance @ 20 °C	6.4 ohms/1,000 ft
Maximum Recommended Current	5 amps per conductor @ 25 °C

**APPEARANCE AND PACKAGING**

Insulation Colors	Black, grey
Jacket Color	Grey
Legend (Surface Ink Print)	Johnson Controls MetaSys-24 VAC Cable (VAC) 18 AWG (UL) TYPE CMP C (UL) TYPE CMP FT6 Northflex
Packaging	Available in 1,000-foot reels and pull-out boxes. The jacket is sequentially footmarked.

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## ANIXTER PART NO.

**CBL-18/2GRY-PVC-REEL**

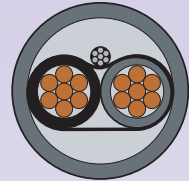
**CBL-18/2GRY-PVC-BOX**

Description	18/2 stranded shielded CMR FT4 cable
Construction	This cable consists of a) two bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800—CMR, CE, RoHS

## CONSTRUCTION PARAMETERS

## CABLE CROSS-SECTION

Conductor and Stranding	18 AWG bare copper, 7x26
Insulation Material and Thickness	PVC, 0.010"
Number of Conductors	2
Shield	Alum/poly, 100% coverage
Drain	20 AWG 7x28 tinned copper
Jacket Material and Thickness	PVC, 0.015"
Overall Cable Diameter	0.165" nominal
Approximate Cable Weight	20.9 lbs/1,000 ft
Flame Rating	UL: 1666 Riser Flame Test c(UL): FT4



**NORTHflex®**

## ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	-20 °C to 75 °C
Operating Voltage	300 V rms maximum
Capacitance Between Conductors @ 1 kHz	65 pF/ft nominal
Nominal Conductor DC Resistance @ 20 °C	6.5 ohms/1,000 ft
Maximum Recommended Current	5 amps per conductor @ 25 °C

## APPEARANCE AND PACKAGING

Insulation Colors	Black, grey
Jacket Color	Grey
Legend (Surface Ink Print)	Johnson Controls MetaSys-24 VAC Cable (VAC) 18 AWG (UL) TYPE CMR C (UL) TYPE CMR FT4 Northflex
Packaging	Available in 1,000-foot reels and pull-out boxes. The jacket is sequentially footmarked.

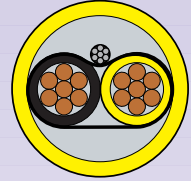


# ANALOG INPUT (AI) 18-2C PLENUM

<b>ANIXTER PART NO.</b>	<b>CBL-18/2YEL-PLN-REEL</b> <b>CBL-18/2YEL-PLN-BOX</b>
Description	18/2 shielded plenum communications cable
Construction	This cable consists of a) two bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800—CMP, CE, RoHS

## CONSTRUCTION PARAMETERS

Conductor and Stranding	18 AWG bare copper, 7x26
Insulation Material and Thickness	Low smoke PVC, 0.009"
Number of Conductors	2
Shield	Alum/poly, 100% coverage
Drain	20 AWG 7x28 tinned copper
Jacket Material and Thickness	Low smoke PVC, 0.015"
Overall Cable Diameter	0.162" nominal
Approximate Cable Weight	21.4 lbs/1,000 ft
Flame Rating	UL: UL 910/NFPA 262 c(UL): FT6



**NorthFlex®**

## ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	0 °C to 75 °C
Operating Voltage	300 V rms maximum
Capacitance Between Conductors @ 1 kHz	70 pF/ft nominal
Nominal Conductor DC Resistance @ 20 °C	6.4 ohms/1,000 ft
Maximum Recommended Current	5 amps per conductor @ 25 °C

## APPEARANCE AND PACKAGING

Insulation Colors	Black, yellow
Jacket Color	Yellow
Legend (Surface Ink Print)	Johnson Controls MetaSys-Analog Input Cable (AI) 18 AWG (UL) TYPE CMP C (UL) TYPE CMP FT6 Northflex
Packaging	Available in 1,000-foot reels and pull-out boxes. The jacket is sequentially footmarked.

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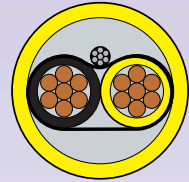


**ANIXTER PART NO.**
**CBL-18/2YEL-PVC-REEL**
**CBL-18/2YEL-PVC-BOX**

Description	18/2 stranded shielded CMR FT4 cable
Construction	This cable consists of a) two bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800—CMR, CE, RoHS

**CONSTRUCTION PARAMETERS**

Conductor and Stranding	18 AWG bare copper, 7X26
Insulation Material and Thickness	PVC, 0.010"
Number of Conductors	2
Shield	Alum/poly, 100% coverage
Drain	20 AWG 7x28 tinned copper
Jacket Material and Thickness	PVC, 0.015"
Overall Cable Diameter	0.165" nominal
Approximate Cable Weight	20.9 lbs/1,000 ft
Flame Rating	UL: UL 1666 Riser Flame Test c(UL): FT4


**NORTHFLEX®**
**ELECTRICAL AND ENVIRONMENTAL PROPERTIES**

Temperature Rating	-20 °C to 75 °C
Operating Voltage	300 V rms maximum
Capacitance Between Conductors @ 1 kHz	65 pF/ft nominal
Nominal Conductor DC Resistance @ 20 °C	6.5 ohms/1,000 ft
Maximum Recommended Current	5 amps per conductor @ 25 °C

**APPEARANCE AND PACKAGING**

Insulation Colors	Black, yellow
Jacket Color	Yellow
Legend (Surface Ink Print)	Johnson Controls MetaSys-Analog Input Cable (AI) 18 AWG (UL) TYPE CMR C (UL) TYPE CMR FT4 Northflex
Packaging	Available in 1,000-foot reels and pull-out boxes. The jacket is sequentially footmarked.



## ANALOG INPUT (AI) 18-3C PLENUM

### ANIXTER PART NO.

CBL-18/3YEL-PLN-REEL

CBL-18/3YEL-PLN-BOX

### Description

18/3 shielded plenum communications cable

### Construction

This cable consists of a) three bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.

### Approvals

UL Standard 444, NEC Article 800—CMP, CE, RoHS

### CONSTRUCTION PARAMETERS

#### Conductor and Stranding

18 AWG bare copper, 7x26

#### Insulation Material and Thickness

Low smoke PVC, 0.009"

#### Number of Conductors

3

#### Shield

Alum/poly, 100% coverage

#### Drain

20 AWG 7x28 tinned copper

#### Jacket Material and Thickness

Low smoke PVC, 0.015"

#### Overall Cable Diameter

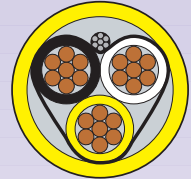
0.172" nominal

#### Approximate Cable Weight

28.1 lbs/1,000 ft

#### Flame Rating

UL: UL 910/NFPA 262  
c(UL): FT6



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### ELECTRICAL AND ENVIRONMENTAL PROPERTIES

#### Temperature Rating

0 °C to 75 °C

#### Operating Voltage

300 V rms maximum

#### Capacitance Between Conductors @ 1 kHz

70 pF/ft nominal

#### Nominal Conductor DC Resistance @ 20 °C

6.4 ohms/1,000 ft

#### Maximum Recommended Current

5 amps per conductor @ 25 °C

### APPEARANCE AND PACKAGING

#### Insulation Colors

Black, white, yellow

#### Jacket Color

Yellow

#### Legend (Surface Ink Print)

Johnson Controls MetaSys-Analog Input Cable (AI) 18 AWG  
(UL) TYPE CMP C (UL) TYPE CMP FT6 Northflex

#### Packaging

Available in 1,000-foot reels and pull-out boxes.

The jacket is sequentially footmarked.

## ANALOG INPUT (AI) 18-3C NONPLENUM

### ANIXTER PART NO.

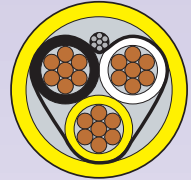
**CBL-18/3YEL-PVC-REEL**

**CBL-18/3YEL-PVC-BOX**

Description	18/3 stranded shielded CMR FT4 cable
Construction	This cable consists of a) three bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800—CMR, CE, RoHS

### CONSTRUCTION PARAMETERS

Conductor and Stranding	18 AWG bare copper, 7x26
Insulation Material and Thickness	PVC, 0.010"
Number of Conductors	3
Shield	Alum/poly, 100% coverage
Drain	20 AWG 7x28 tinned copper
Jacket Material and Thickness	PVC, 0.015"
Overall Cable Diameter	0.175" nominal
Approximate Cable Weight	27.7 lbs/1,000 ft
Flame Rating	UL: UL 1666 Riser Flame Test c(UL): FT4



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### ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	-20 °C to 75 °C
Operating Voltage	300 V rms maximum
Capacitance Between Conductors @ 1 kHz	62 pF/ft nominal
Nominal Conductor DC Resistance @ 20 °C	6.5 ohms/1,000 ft
Maximum Recommended Current	5 amps per conductor @ 25 °C

### APPEARANCE AND PACKAGING

Insulation Colors	Black, white, yellow
Jacket Color	Yellow
Legend (Surface Ink Print)	Johnson Controls MetaSys-Analog Input Cable (AI) 18 AWG (UL) TYPE CMR C (UL) TYPE CMR FT4 Northflex
Packaging	Available in 1,000-foot reels and pull-out boxes. The jacket is sequentially footmarked.

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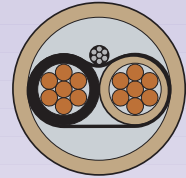
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# ANALOG OUTPUT (AO) 18-2C PLENUM

<b>ANIXTER PART NO.</b>	<b>CBL-18/2 TAN-PLN-REEL</b> <b>CBL-18/2 TAN-PLN-BOX</b>
Description	18/2 shielded plenum communications cable
Construction	This cable consists of a) two bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800–CMP, CE, RoHS

## CONSTRUCTION PARAMETERS

Conductor and Stranding	18 AWG bare copper, 7x26
Insulation Material and Thickness	Low smoke PVC, 0.009"
Number of Conductors	2
Shield	Alum/poly, 100% coverage
Drain	20 AWG 7x28 tinned copper
Jacket Material and Thickness	Low smoke PVC, 0.015"
Overall Cable Diameter	0.162" nominal
Approximate Cable Weight	21.4 lbs/1,000 ft
Flame Rating	UL: UL 910 /NFPA 262 c(UL): FT6



**NorthFlex®**

## ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	0 °C to 75 °C
Operating Voltage	300 V rms maximum
Capacitance Between Conductors @ 1 kHz	70 pF/ft nominal
Nominal Conductor DC Resistance @ 20 °C	6.4 ohms/1,000 ft
Maximum Recommended Current	5 amps per conductor @ 25 °C

## APPEARANCE AND PACKAGING

Insulation Colors	Black, tan
Jacket Color	Tan
Legend (Surface Ink Print)	Johnson Controls MetaSys-Analog Output Cable (AO) 18 AWG (UL) TYPE CMP C (UL) TYPE CMP FT6 Northflex
Packaging	Available in 1,000-foot reels and pull-out boxes.  The jacket is sequentially footmarked.

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## ANALOG OUTPUT (AO) 18-2C NONPLENUM

### ANIXTER PART NO.

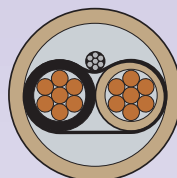
**CBL-18/2TAN-PVC-REEL**

**CBL-18/2TAN-PVC-BOX**

Description	18/2 stranded shielded CMR FT4 cable
Construction	This cable consists of a) two bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800—CMR, CE, RoHS

### CONSTRUCTION PARAMETERS

Conductor and Stranding	18 AWG bare copper, 7x26
Insulation Material and Thickness	PVC, 0.010"
Number of Conductors	2
Shield	Alum/poly, 100% coverage
Drain	20 AWG 7x28 tinned copper
Jacket Material and Thickness	PVC, 0.015"
Overall Cable Diameter	0.165" nominal
Approximate Cable Weight	20.9 lbs/1,000 ft
Flame Rating	UL: UL 1666 Riser Flame Test c(UL): FT4



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### ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	-20 °C to 75 °C
Operating Voltage	300 V rms maximum
Capacitance Between Conductors @ 1 kHz	65 pF/ft nominal
Nominal Conductor DC Resistance @ 20 °C	6.5 ohms/1,000 ft
Maximum Recommended Current	5 amps per conductor @ 25 °C

### APPEARANCE AND PACKAGING

Insulation Colors	Black, tan
Jacket Color	Tan
Legend (Surface Ink Print)	Johnson Controls MetaSys-Analog Output Cable (AO) 18 AWG (UL) TYPE CMR C (UL) TYPE CMR FT4 Northflex
Packaging	Available in 1,000-foot reels and pull-out boxes. The jacket is sequentially footmarked.

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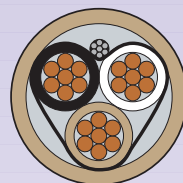
**ANIXTER**

## ANALOG OUTPUT (AO) 18-3C PLENUM

<b>ANIXTER PART NO.</b>	<b>CBL-18/3TAN-PLN-REEL</b> <b>CBL-18/3TAN-PLN-BOX</b>
Description	18/3 shielded plenum communications cable
Construction	This cable consists of a) three bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800—CMP, CE, RoHS

### CONSTRUCTION PARAMETERS

Conductor and Stranding	18 AWG bare copper, 7x26
Insulation Material and Thickness	Low smoke PVC, 0.009"
Number of Conductors	3
Shield	Alum/poly, 100% coverage
Drain	20 AWG 7x28 tinned copper
Jacket Material and Thickness	Low smoke PVC, 0.015"
Overall Cable Diameter	0.172" nominal
Approximate Cable Weight	28.1 lbs/1,000 ft
Flame Rating	UL: UL 910/NFPA 262 c(UL): FT6



**NorthFlex®**

### ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	0 °C to 75 °C
Operating Voltage	300 V rms maximum
Capacitance Between Conductors @ 1 kHz	70 pF/ft nominal
Nominal Conductor DC Resistance @ 20 °C	6.4 ohms/1,000 ft
Maximum Recommended Current	5 amps per conductor @ 25 °C

### APPEARANCE AND PACKAGING

Insulation Colors	Black, white, tan
Jacket Color	Tan
Legend (Surface Ink Print)	Johnson Controls MetaSys-Analog Output Cable (AO) 18 AWG (UL) TYPE CMP C (UL) TYPE CMP FT6 Northflex
Packaging	Available in 1,000-foot reels and pull-out boxes. The jacket is sequentially footmarked.

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## ANALOG OUTPUT (AO) 18-3C NONPLENUM

### ANIXTER PART NO.

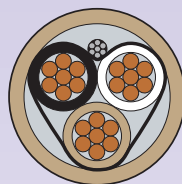
**CBL-18/3TAN-PVC-REEL**

**CBL-18/3TAN-PVC-BOX**

Description	18/3 stranded shielded CMR FT4 cable
Construction	This cable consists of a) three bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800—CMR, CE, RoHS

### CONSTRUCTION PARAMETERS

Conductor and Stranding	18 AWG bare copper, 7x26
Insulation Material and Thickness	PVC, 0.010"
Number of Conductors	3
Shield	Alum/poly, 100% coverage
Drain	20 AWG 7x28 tinned copper
Jacket Material and Thickness	PVC, 0.015"
Overall Cable Diameter	0.175" nominal
Approximate Cable Weight	27.7 lbs/1,000 ft nominal
Flame Rating	UL: UL 1666 Riser Flame Test c(UL): FT4



**NORTHFLEX®**

### ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	-20 °C to 75 °C
Operating Voltage	300 V rms maximum
Capacitance Between Conductors @ 1 kHz	62 pF/ft nominal
Nominal Conductor DC Resistance @ 20 °C	6.5 ohms/1,000 ft
Maximum Recommended Current	5 amps per conductor @ 25 °C

### APPEARANCE AND PACKAGING

Insulation Colors	Black, white, tan
Jacket Color	Tan
Legend (Surface Ink Print)	Johnson Controls MetaSys-Analog Output Cable (AO) 18 AWG (UL) TYPE CMR C (UL) TYPE CMR FT4 Northflex
Packaging	Available in 1,000-foot reels and pull-out boxes. The jacket is sequentially footmarked.

**ANIXTER**

## BINARY INPUT (BI) 18-2C PLENUM

### ANIXTER PART NO.

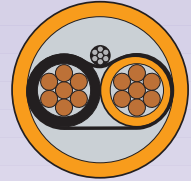
**CBL-18/2ORG-PLN-REEL**

**CBL-18/2ORG-PLN-BOX**

Description	18/2 shielded plenum communications cable
Construction	This cable consists of a) two bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800—CMP, CE, RoHS

### CONSTRUCTION PARAMETERS

Conductor and Stranding	18 AWG bare copper, 7x26
Insulation Material and Thickness	Low smoke PVC, 0.009"
Number of Conductors	2
Shield	Alum/poly, 100% coverage
Drain	20 AWG 7x28 tinned copper
Jacket Material and Thickness	Low smoke PVC, 0.015"
Overall Cable Diameter	0.162" nominal
Approximate Cable Weight	21.4 lbs/1,000 ft
Flame Rating	UL: UL 910/NFPA 262 c(UL): FT6



**NorthFlex®**

### ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	0 °C to 75 °C
Operating Voltage	300 V rms maximum
Capacitance Between Conductors @ 1 kHz	70 pF/ft nominal
Nominal Conductor DC Resistance @ 20 °C	6.4 ohms/1,000 ft
Maximum Recommended Current	5 amps per conductor @ 25 °C

### APPEARANCE AND PACKAGING

Insulation Colors	Black, orange
Jacket Color	Orange
Legend (Surface Ink Print)	Johnson Controls MetaSys-Binary Input Cable (BI) 18 AWG (UL) TYPE CMP C (UL) TYPE CMP FT6 Northflex
Packaging	Available in 1,000-foot reels and pull-out boxes.  The jacket is sequentially footmarked.

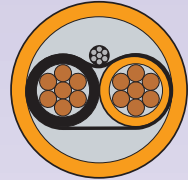


**ANIXTER PART NO.**
**CBL-18/2ORG-PVC-REEL**
**CBL-18/2ORG-PVC-BOX**

Description	18/2 stranded shielded CMR FT4 cable
Construction	This cable consists of a) two bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800—CMR, CE, RoHS

**CONSTRUCTION PARAMETERS**

Conductor and Stranding	18 AWG bare copper, 7x26
Insulation Material and Thickness	PVC, 0.010"
Number of Conductors	2
Shield	Alum/poly, 100% coverage
Drain	20 AWG 7x28 tinned copper
Jacket Material and Thickness	PVC, 0.015"
Overall Cable Diameter	0.165" nominal
Approximate Cable Weight	20.9 lbs/1,000 ft
Flame Rating	UL: UL 1666 Riser Flame Test c(UL): FT4


**NORTHFLEX®**
**ELECTRICAL AND ENVIRONMENTAL PROPERTIES**

Temperature Rating	-20 °C to 75 °C
Operating Voltage	300 V rms maximum
Capacitance Between Conductors @ 1 kHz	65 pF/ft nominal
Nominal Conductor DC Resistance @ 20 °C	6.5 ohms/1,000 ft
Maximum Recommended Current	5 amps per conductor @ 25 °C

**APPEARANCE AND PACKAGING**

Insulation Colors	Black, orange
Jacket Color	Orange
Legend (Surface Ink Print)	Johnson Controls MetaSys-Binary Input Cable (BI) 18 AWG (UL) TYPE CMR C (UL) TYPE CMR FT4 Northflex
Packaging	Available in 1,000-foot reels and pull-out boxes. The jacket is sequentially footmarked.



## BINARY OUTPUT (BO) 18-2C PLENUM

### ANIXTER PART NO.

CBL-18/2VLT-PLN-REEL

CBL-18/2VLT-PLN-BOX

### Description

18/2 shielded plenum communications cable

### Construction

This cable consists of a) two bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.

### Approvals

UL Standard 444, NEC Article 800—CMP, CE, RoHS

### CONSTRUCTION PARAMETERS

#### Conductor and Stranding

18 AWG bare copper, 7x26

#### Insulation Material and Thickness

Low smoke PVC, 0.009"

#### Number of Conductors

2

#### Shield

Alum/poly, 100% coverage

#### Drain

20 AWG 7x28 tinned copper

#### Jacket Material and Thickness

Low smoke PVC, 0.015"

#### Overall Cable Diameter

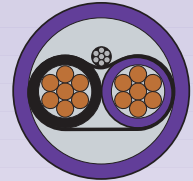
0.162" nominal

#### Approximate Cable Weight

21.4 lbs/1,000 ft

#### Flame Rating

UL: UL 910/NFPA 262  
c(UL): FT6



**NorthFlex®**

### ELECTRICAL AND ENVIRONMENTAL PROPERTIES

#### Temperature Rating

0 °C to 75 °C

#### Operating Voltage

300 V rms maximum

#### Capacitance Between Conductors @ 1 kHz

70 pF/ft nominal

#### Nominal Conductor DC Resistance @ 20 °C

6.4 ohms/1,000 ft

#### Maximum Recommended Current

5 amps per conductor @ 25 °C

### APPEARANCE AND PACKAGING

#### Insulation Colors

Black, violet

#### Jacket Color

Violet

#### Legend (Surface Ink Print)

Johnson Controls MetaSys-Binary Output Cable (BO) 18 AWG  
(UL) TYPE CMP C (UL) TYPE CMP FT6 Northflex

#### Packaging

Available in 1,000-foot reels and pull-out boxes.

The jacket is sequentially footmarked.

## BINARY OUTPUT (BO) 18-2C NONPLENUM

### ANIXTER PART NO.

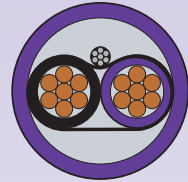
**CBL-18/2VLT-PVC-REEL**

**CBL-18/2VLT-PVC-BOX**

Description	18/2 stranded shielded CMR FT4 cable
Construction	This cable consists of a) two bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800—CMR, CE, RoHS

### CONSTRUCTION PARAMETERS

Conductor and Stranding	18 AWG bare copper, 7x26
Insulation Material and Thickness	PVC, 0.010"
Number of Conductors	2
Shield	Alum/poly, 100% coverage
Drain	20 AWG 7x28 tinned copper
Jacket Material and Thickness	PVC, 0.015"
Overall Cable Diameter	0.165" nominal
Approximate Cable Weight	20.9 lbs/1,000 ft
Flame Rating	UL: UL 1666 Riser Flame Test c(UL): FT4



**NORTHFLEX®**

### ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	-20 °C to 75 °C
Operating Voltage	300 V rms maximum
Capacitance Between Conductors @ 1 kHz	65 pF/ft nominal
Nominal Conductor DC Resistance @ 20 °C	6.5 ohms/1,000 ft
Maximum Recommended Current	5 amps per conductor @ 25 °C

### APPEARANCE AND PACKAGING

Insulation Colors	Black, violet
Jacket Color	Violet
Legend (Surface Ink Print)	Johnson Controls MetaSys-Binary Output Cable (BO) 18 AWG (UL) TYPE CMR C (UL) TYPE CMR FT4 Northflex
Packaging	Available in 1,000-foot reels and pull-out boxes. The jacket is sequentially footmarked.

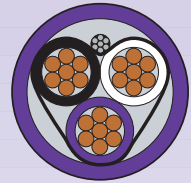
**ANIXTER**

## BINARY OUTPUT (BO) 18-3C PLENUM

<b>ANIXTER PART NO.</b>	<b>CBL-18/3VLT-PLN-REEL</b> <b>CBL-18/3VLT-PLN-BOX</b>
Description	18/3 shielded plenum communications cable
Construction	This cable consists of a) three bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800—CMP, CE, RoHS

### CONSTRUCTION PARAMETERS

Conductor and Stranding	18 AWG bare copper, 7x26
Insulation Material and Thickness	Low smoke PVC, 0.009"
Number of Conductors	3
Shield	Alum/poly, 100% coverage
Drain	20 AWG 7x28 tinned copper
Jacket Material and Thickness	Low smoke PVC, 0.015"
Overall Cable Diameter	0.172" nominal
Approximate Cable Weight	28.1 lbs/1,000 ft
Flame Rating	UL: UL 910/NFPA 262 c(UL): FT6



**NorthFlex®**

### ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	0 °C to 75 °C
Operating Voltage	300 V rms maximum
Capacitance Between Conductors @ 1 kHz	70 pF/ft nominal
Nominal Conductor DC Resistance @ 20 °C	6.4 ohms/1,000 ft
Maximum Recommended Current	5 amps per conductor @ 25 °C

### APPEARANCE AND PACKAGING

Insulation Colors	Black, white, violet
Jacket Color	Violet
Legend (Surface Ink Print)	Johnson Controls MetaSys-Binary Output Cable (BO) 18 AWG (UL) TYPE CMP C (UL) TYPE CMP FT6 Northflex
Packaging	Available in 1,000-foot reels and pull-out boxes. The jacket is sequentially footmarked.

JOHNSON  
CONTROLS

# BINARY OUTPUT (BO) 18-3C NONPLENUM

## ANIXTER PART NO.

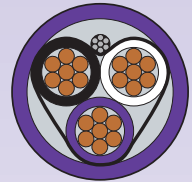
**CBL-18/3VLT-PVC-REEL**

**CBL-18/3VLT-PVC-BOX**

Description	18/3 stranded shielded CMR FT4 cable
Construction	This cable consists of a) three bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800—CMR, CE, RoHS

## CONSTRUCTION PARAMETERS

Conductor and Stranding	18 AWG bare copper, 7x26
Insulation Material and Thickness	PVC, 0.010"
Number of Conductors	3
Shield	Alum/poly, 100% coverage
Drain	20 AWG 7x28 tinned copper
Jacket Material and Thickness	PVC, 0.015"
Overall Cable Diameter	0.175" nominal
Approximate Cable Weight	27.7 lbs/1,000 ft
Flame Rating	UL: UL 1666 Riser Flame Test c(UL): FT4



**NORTHFLEX®**

## ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	-20°C to 75°C
Operating Voltage	300 V rms maximum
Capacitance Between Conductors @ 1 kHz	62 pF/ft nominal
Nominal Conductor DC Resistance @ 20°C	6.5 ohms/1,000 ft
Maximum Recommended Current	5 amps per conductor @ 25°C

## APPEARANCE AND PACKAGING

Insulation Colors	Black, white, violet
Jacket Color	Violet
Legend (Surface Ink Print)	Johnson Controls MetaSys-Binary Output Cable (BO) 18 AWG (UL) TYPE CMR C (UL) TYPE CMR FT4 Northflex
Packaging	Available in 1,000-foot reels and pull-out boxes. The jacket is sequentially footmarked.

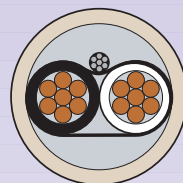
**ANIXTER**

## GENERAL PURPOSE 18-2C PLENUM

<b>ANIXTER PART NO.</b>	<b>CBL-18/2NAT-PLN-REEL</b> <b>CBL-18/2NAT-PLN-BOX</b>
Description	18/2 shielded plenum communications cable
Construction	This cable consists of a) two bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800–CMP, CE, RoHS

### CONSTRUCTION PARAMETERS

Conductor and Stranding	18 AWG bare copper, 7x26
Insulation Material and Thickness	Low smoke PVC, 0.009"
Number of Conductors	2
Shield	Alum/poly, 100% coverage
Drain	20 AWG 7x28 tinned copper
Jacket Material and Thickness	Low smoke PVC, 0.015"
Overall Cable Diameter	0.162" nominal
Approximate Cable Weight	21.4 lbs/1,000 ft
Flame Rating	UL: UL 910 /NFPA 262 c(UL): FT6



**NorthFlex®**

### ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	0 °C to 75 °C
Operating Voltage	300 V rms maximum
Capacitance Between Conductors @ 1 kHz	70 pF/ft nominal
Nominal Conductor DC Resistance @ 20 °C	6.4 ohms/1,000 ft
Maximum Recommended Current	5 amps per conductor @ 25 °C

### APPEARANCE AND PACKAGING

Insulation Colors	Black, white
Jacket Color	Natural
Legend (Surface Ink Print)	Johnson Controls MetaSys-General Purpose Cable 18 AWG (UL) TYPE CMP C (UL) TYPE CMP FT6 Northflex
Packaging	Available in 1,000-foot reels and pull-out boxes. The jacket is sequentially footmarked.

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CONTROLS

# GENERAL PURPOSE 18-2C NONPLENUM

## ANIXTER PART NO.

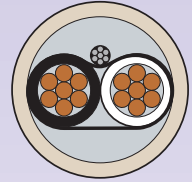
**CBL-18/2NAT-PVC-REEL**

**CBL-18/2NAT-PVC-BOX**

Description	18/2 stranded shielded CMR FT4 cable
Construction	This cable consists of a) two bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800—CMR, CE, RoHS

## CONSTRUCTION PARAMETERS

Conductor and Stranding	18 AWG bare copper, 7x26
Insulation Material and Thickness	PVC, 0.010"
Number of Conductors	2
Shield	Alum/Poly 100% coverage
Drain	20 AWG 7x28 tinned copper
Jacket Material and Thickness	PVC, 0.015"
Overall Cable Diameter	0.165" nominal
Approximate Cable Weight	20.9 lbs/1,000 ft
Flame Rating	UL: UL 1666 Riser Flame Test c(UL): Ft4



**NORTHFLEX®**

## ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	-20°C to 75°C
Operating Voltage	300 V rms maximum
Capacitance Between Conductors @ 1 kHz	65 pF/ft nominal
Nominal Conductor DC Resistance @ 20°C	6.5 ohms/1,000 ft
Maximum Recommended Current	5 amps per conductor @ 25°C

## APPEARANCE AND PACKAGING

Insulation Colors	Black, white
Jacket Color	Natural
Legend (Surface Ink Print)	Johnson Controls MetaSys-General Purpose Cable 18 AWG (UL) TYPE CMR C (UL) TYPE CMR FT4 Northflex
Packaging	Available in 1,000-foot reels and pull-out boxes. The jacket is sequentially footmarked.

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## GENERAL PURPOSE 18-3C PLENUM

### ANIXTER PART NO.

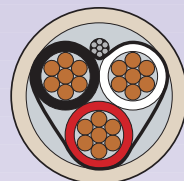
**CBL-18/3NAT-PLN-REEL**

**CBL-18/3NAT-PLN-BOX**

Description	18/3 shielded plenum communications cable
Construction	This cable consists of a) three bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800—CMP, CE, RoHS

### CONSTRUCTION PARAMETERS

Conductor and Stranding	18 AWG bare copper, 7x26
Insulation Material and Thickness	Low smoke PVC, 0.009"
Number of Conductors	3
Shield	Alum/poly, 100% coverage
Drain	20 AWG 7x28 tinned copper
Jacket Material and Thickness	Low smoke PVC, 0.015"
Overall Cable Diameter	0.172" nominal
Approximate Cable Weight	28.1 lbs/1,000 ft
Flame Rating	UL: UL 910/NFPA 262 c(UL): FT6



**NorthFlex®**

### ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	0 °C to 75 °C
Operating Voltage	300 V rms maximum
Capacitance Between Conductors @ 1 kHz	70 pF/ft nominal
Nominal Conductor DC Resistance @ 20 °C	6.4 ohms/1,000 ft
Maximum Recommended Current	5 amps per conductor @ 25 °C

### APPEARANCE AND PACKAGING

Insulation Colors	Black, white, red
Jacket Color	Natural
Legend (Surface Ink Print)	Johnson Controls MetaSys-General Purpose Cable 18 AWG (UL) TYPE CMP C (UL) TYPE CMP FT6 Northflex
Packaging	Available in 1,000-foot reels and pull-out boxes.  The jacket is sequentially footmarked.

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CONTROLS**



# GENERAL PURPOSE 18-3C NONPLENUM

## ANIXTER PART NO.

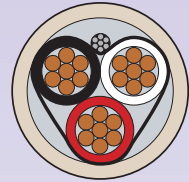
**CBL-18/3NAT-PVC-REEL**

**CBL-18/3NAT-PVC-BOX**

Description	18/3 stranded shielded CMR FT4 cable
Construction	This cable consists of a) three bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800—CMR, CE, RoHS

## CONSTRUCTION PARAMETERS

Conductor and Stranding	18 AWG bare copper, 7x26
Insulation Material and Thickness	PVC, 0.010"
Number of Conductors	3
Shield	Alum/poly, 100% coverage
Drain	20 AWG 7x28 tinned copper
Jacket Material and Thickness	PVC, 0.015"
Overall Cable Diameter	0.175" nominal
Approximate Cable Weight	27.7 lbs/1,000 ft
Flame Rating	UL: UL 1666 Riser Flame Test c(UL): FT4



**NORTHFLEX®**

## ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	-20 °C to 75 °C
Operating Voltage	300 V rms maximum
Capacitance Between Conductors @ 1 kHz	62 pF/ft nominal
Nominal Conductor DC Resistance @ 20 °C	6.5 ohms/1,000 ft
Maximum Recommended Current	5 amps per conductor @ 25 °C

## APPEARANCE AND PACKAGING

Insulation Colors	Black, white, red
Jacket Color	Natural
Legend (Surface Ink Print)	Johnson Controls MetaSys-General Purpose Cable 18 AWG (UL) TYPE CMR C (UL) TYPE CMR FT4 Northflex
Packaging	Available in 1,000-foot reels and pull-out boxes. The jacket is sequentially footmarked.

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## GENERAL PURPOSE 18-4C PLENUM

### ANIXTER PART NO.

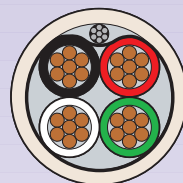
**CBL-18/4NAT-PLN-REEL**

**CBL-18/4NAT-PLN-BOX**

Description	18/4 shielded plenum communications cable
Construction	This cable consists of a) four bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800–CMP, CE, RoHS

### CONSTRUCTION PARAMETERS

Conductor and Stranding	18 AWG bare copper, 7x26
Insulation Material and Thickness	Low smoke PVC, 0.009"
Number of Conductors	4
Shield	Alum/poly, 100% coverage
Drain	20 AWG 7x28 tinned copper
Jacket Material and Thickness	Low smoke PVC, 0.015"
Overall Cable Diameter	0.188" nominal
Approximate Cable Weight	35.3 lbs/1,000 ft
Flame Rating	UL: UL 910 /NFPA 262 C(UL): FT6



**NorthFlex®**

### ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	0 °C to 75 °C
Operating Voltage	300 V rms maximum
Capacitance Between Conductors @ 1 kHz	42 pF/ft nominal
Nominal Conductor DC Resistance @ 20 °C	6.5 ohms/1,000 ft
Maximum Recommended Current	4 amps per conductor @ 25 °C

### APPEARANCE AND PACKAGING

Insulation Colors	Black, red, white, green
Jacket Color	Natural
Legend (Surface Ink Print)	Johnson Controls MetaSys-General Purpose Cable 18 AWG (UL) TYPE CMP C (UL) TYPE CMP FT6 Northflex
Packaging	Available in 1,000-foot reels and pull-out boxes.  The jacket is sequentially footmarked.

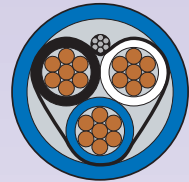
## ANIXTER PART NO.

**CBL-18/3BLU-PLN-REEL**  
**CBL-18/3BLU-PLN-BOX**

Description	18/3 shielded plenum communications cable
Construction	This cable consists of a) three bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800—CMP, CE, RoHS

## CONSTRUCTION PARAMETERS

Conductor and Stranding	18 AWG bare copper, 7x26
Insulation Material and Thickness	Low smoke PVC, 0.009"
Number of Conductors	3
Shield	Alum/poly, 100% coverage
Drain	20 AWG 7x28 tinned copper
Jacket Material and Thickness	Low smoke PVC, .015"
Overall Cable Diameter	0.172" nominal
Approximate Cable Weight	28.1 lbs/1,000 ft
Flame Rating	UL: UL 910 /NFPA 262 c(UL): FT6



**NORTHFLEX®**

## ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	0 °C to 75 °C
Operating Voltage	300 V rms maximum
Capacitance Between Conductors @ 1 kHz	70 pF/ft nominal
Nominal Conductor DC Resistance @ 20 °C	6.4 ohms/1,000 ft
Maximum Recommended Current	5 amps per conductor @ 25 °C

## APPEARANCE AND PACKAGING

Insulation Colors	Black, white, blue
Jacket Color	Blue
Legend (Surface Ink Print)	Johnson Controls MetaSys-N2 Bus Cable 18 AWG (UL) TYPE CMP C (UL) TYPE CMP FT6 Northflex
Packaging	Available in 1,000-foot reels and pull-out boxes. The jacket is sequentially footmarked.

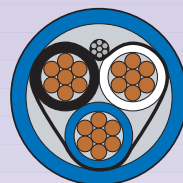


## N-2 BUS CABLE 18-3C NONPLENUM

<b>ANIXTER PART NO.</b>	<b>CBL-18/3BLU-PVC-REEL</b> <b>CBL-18/3BLU-PVC-BOX</b>
Description	18/3 stranded shielded CMR FT4 cable
Construction	This cable consists of a) three bare copper-insulated conductors with an overall shield and drain wire and b) and an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800—CMR, CE, RoHS

### CONSTRUCTION PARAMETERS

Conductor and Stranding	18 AWG bare copper, 7x26
Insulation Material and Thickness	PVC, 0.010"
Number of Conductors	3
Shield	Alum/poly, 100% coverage
Drain	20 AWG 7x28 tinned copper
Jacket Material and Thickness	PVC, 0.015"
Overall Cable Diameter	0.175" nominal
Approximate Cable Weight	27.7 lbs/1,000 ft
Flame Rating	UL: UL 1666 Riser Flame Test c(UL): FT4



**NorthFlex®**

### ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	-20 °C to 75 °C
Operating Voltage	300 V rms maximum
Capacitance Between Conductors @ 1 kHz	62 pF/ft nominal
Nominal Conductor DC Resistance @ 20 °C	6.5 ohms/1,000 ft
Maximum Recommended Current	5 amps per conductor @ 25 °C

### APPEARANCE AND PACKAGING

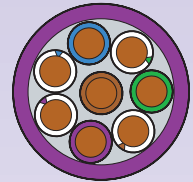
Insulation Colors	Black, white, blue
Jacket Color	Blue
Legend (Surface Ink Print)	Johnson Controls MetaSys-N2 Bus Cable 18 AWG (UL) TYPE CMR C (UL) TYPE CMR FT4 Northflex
Packaging	Available in 1,000-foot reels and pull-out boxes. The jacket is sequentially footmarked.

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<b>ANIXTER PART NO.</b>	<b>CBL-CAT52404P-7U</b>
Description	24 AWG 4-pair plenum Category 5e Ethernet
Rating	ANSI/TIA/EIA-568-B.2 Category 5e, NFPA 262, CMP
Certifications	ETL and UL verified Category 5e, CSA FT-6, CE, RoHS

## CONSTRUCTION PARAMETERS

Conductors	24 AWG solid bare copper
Insulation	FRPO/FEP
Pair Lays	Each pair has different lay for crosstalk prevention
Jacket	Low smoke PVC, outside diameter 0.198"



**NORTHFlex**<sup>®</sup>

## ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	-20 °C to 75 °C
Maximum Operating Voltage-UL	300 V rms
Nominal Mutual Capacitance @ 1 kHz	15 pF/ft
DC Resistance	9.38 ohms/100 m maximum

## APPEARANCE AND PACKAGING

Pair Colors	White/blue-blue, white/orange-orange White/green-green, white/brown-brown
Jacket Color	Violet
Jacket Print	Per CAT5E
Flame Rating	NFPA 262, CMP
Applicable NEC Article	800
Applicable TIA/EIA	568-B.2
Approximate Cable Weight	24.4 lbs/1,000-foot boxes
Packaging	Available in 1,000-foot pull-out boxes. The jacket is sequentially footmarked.



# N-1 BUS CABLE RG-62 PLENUM

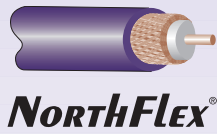
<b>ANIXTER PART NO.</b>	<b>CBL-RG62PUR-PLN</b>
Description	RG-62 U plenum coaxial cable with 94% braid
Rating	UL Listed as CMP
Certifications	CSA Certified as CMP FT6

## CONSTRUCTION PARAMETERS

		Wall (in.)	OD (in.)
Conductors	22 AWG solid bare CCS		0.025
Dielectric	Foam FEP color natural	0.060	0.146
Shielding	94% bare copper braid (36 AWG strands)		0.168
Jacket	Low smoke PVC	0.017	0.204

## ELECTRICAL PROPERTIES

	Value	
Nominal Conductor DC Resistance @ 20°C	41.2 ohms/1,000 ft	
Impedance (ohms)	93	
Capacitance (pF/ft)	12.5	
Velocity of Propagation (%)	85	
Attenuation Maximum (dB/100 m)	<b>Hz</b>	<b>dB</b>
	50 MHz	1.9
	100 MHz	2.7
	200 MHz	3.8
	400 MHz	5.3
	700 MHz	7.3
	900 MHz	8.2
1,000 MHz	8.7	



## APPEARANCE AND PACKAGING

Jacket Color	Purple
Jacket Print	JOHNSON CONTROLS MetaSys N-1 BUS 22 AWG RG 62 U TYPE CMP (UL) CSA CMP FT6 NORTHFLEX
Flame Rating	UL 910/NFPA 262 CSA FT6 Horizontal Flame and Smoke Test
Applicable NEC Article	725
Approximate Cable Weight	35 lbs/1,000 ft
Temperature Rating	0°C to 75°C
Operating Voltage	300 V rms maximum
Packaging	Available in 1,000-foot reels. The jacket is sequentially footmarked.



# N-1 BUS CABLE RG-62 NONPLENUM

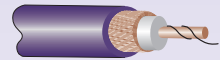
<b>ANIXTER PART NO.</b>	<b>CBL-RG62PUR-PVC</b>
Description	RG-62 A/U Type low loss coaxial cable with 95% braid
Rating	UL Listed as CM/CL2. UL Recognized component AWM Style 1478 (30 V, 60 °C) CE, RoHS

## CONSTRUCTION PARAMETERS

		OD (in.)
Conductors	22 AWG solid CCS	0.025
Insulation	Semi-solid polyethylene	0.146
Shielding	95% bare copper braid	
Jacket	PVC	0.239

## ELECTRICAL PROPERTIES

	Value	
Nominal Conductor DC Resistance @ 20 °C	41.2 ohms/1,000 ft	
Impedance (ohms)	93	
Capacitance (pF/ft)	13.5	
Velocity of Propagation (%)	84	
Attenuation Maximum (dB/100 m)	<b>Hz</b>	<b>dB</b>
	50 MHz	1.9
	100 MHz	2.7
	200 MHz	3.8
	400 MHz	5.3
	900 MHz	8.2
	1,000 MHz	8.7



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## APPEARANCE AND PACKAGING

Jacket Color	Purple
Applicable NEC Article	725
Flame Rating	UL 1685
Temperature Rating	-40 °C to 80 °C (UL maximum temperature 60 °C)
Maximum Operating Volts	300 V rms (CM), 150 C rms (CL2), 30 V rms (UL AWM Style 1478)
Jacket Print (White)	JOHNSON CONTROLS MetaSys N-1 BUS RG 62 A/U TYPE CL2 22 AWG 75 C (UL) OR AWM STYLE 1478 E100316 NORTHFLEX
Approximate Cable Weight	34 lbs/1,000 ft
Packaging	Available in 1,000-foot reels.

The jacket is sequentially footmarked.

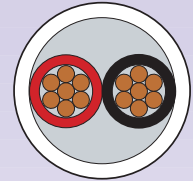


# GENERAL PURPOSE 18-2C NONSHIELDED PLENUM

<b>ANIXTER PART NO.</b>	<b>CBL-18/2WHTNS-PLN-BX</b>
Description	18/2 nonshielded plenum communications cable
Construction	This cable consists of a) two bare copper-insulated conductors and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800 – CMP, CE, RoHS

## CONSTRUCTION PARAMETERS

Conductor and Stranding	18 AWG bare copper 7x26
Insulation Material and Thickness	Low smoke PVC, 0.009"
Number of Conductors	2
Shield	None
Jacket Material and Thickness	Low smoke PVC, 0.015"
Overall Cable Diameter	0.157" nominal
Approximate Cable Weight	16.5 lbs/1,000 ft
Flame Rating	UL: UL910/NFPA262 C(UL): FT6



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## ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	0 °C to +75 °C
Operating Voltage	300 V rms (maximum)
Capacitance Between Conductors @ 1 kHz	30 pF/ft
Nominal Conductor DC Resistance @ 20°C	6.5 ohms/1,000 ft
Max. Recommended Current	5 amps per conductor @ 25 °C

## APPEARANCE AND PACKAGING

Insulation Colors	Black, red
Jacket Color	White
Legend (Surface Ink Print)	18AWG (UL) CMP 75C C(UL) ROHS
Packaging	Available in 1,000-foot pull-out boxes. The jacket is sequentially footmarked.

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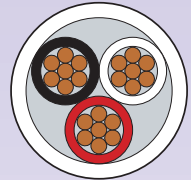


# GENERAL PURPOSE 18-3C NONSHIELDED PLENUM

<b>ANIXTER PART NO.</b>	<b>CBL-18/3WHTNS-PLN-BX</b>
Description	18/3 nonshielded plenum communications cable
Construction	This cable consists of a) three bare copper-insulated conductors and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800 – CMP, CE, RoHS

## CONSTRUCTION PARAMETERS

Conductor and Stranding	18 AWG bare copper 7x26
Insulation Material and Thickness	Low smoke PVC, 0.009"
Number of Conductors	3
Shield	None
Jacket Material and Thickness	Low smoke PVC, 0.015"
Overall Cable Diameter	0.168" nominal
Approximate Cable Weight	23.4 lbs/1,000 ft
Flame Rating	UL: UL910/NFPA262 C(UL): FT6



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## ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	0 °C to +75 °C
Operating Voltage	300 V rms (maximum)
Capacitance Between Conductors @ 1 kHz	30 pF/ft
Nominal Conductor DC Resistance @ 20°C	6.5 ohms/1,000 ft
Maximum Recommended Current	5 amps per conductor @ 25 °C

## APPEARANCE AND PACKAGING

Insulation Colors	Black, red, white
Jacket Color	White
Legend (Surface Ink Print)	18AWG (UL) CMP 75C C(UL) ROHS
Packaging	Available in 1,000-foot pull-out boxes. The jacket is sequentially footmarked.

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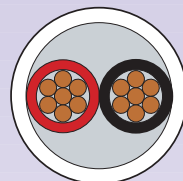


# GENERAL PURPOSE 22-2C NONSHIELDED PLENUM

<b>ANIXTER PART NO.</b>	<b>CBL-22/2-NS-PLN-REEL</b> <b>CBL-22/2-NS-PLN-BOX</b>
Description	22/2 stranded nonshielded plenum communications cable
Construction	This cable consists of a) two bare copper-insulated conductors and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800 – CMP, CE, RoHS

## CONSTRUCTION PARAMETERS

Conductor and Stranding	22 AWG bare copper 7x30
Insulation Material and Thickness	Low smoke PVC, 0.009"
Number of Conductors	2
Shield	None
Jacket Material and Thickness	Low smoke PVC, 0.015"
Overall Cable Diameter	0.124" nominal
Approximate Cable Weight	8.9 lbs/1,000 ft
Flame Rating	UL: UL910/NFPA262 C(UL): FT6



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## ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	0 °C to +75 °C
Operating Voltage	300 V rms (maximum)
Capacitance Between Conductors @ 1 kHz	25 pF/ft
Nominal Conductor DC Resistance @ 20 °C	16.1 ohms/1,000 ft
Maximum Recommended Current	2.8 amps per conductor @ 25 °C

## APPEARANCE AND PACKAGING

Insulation Colors	Black, red
Jacket Color	White
Legend (Surface Ink Print)	22 AWG (UL) Type CMP 75C C(UL) ROHS
Packaging	Available in 1,000-foot reels and pull-out boxes. The jacket is sequentially footmarked.

# GENERAL PURPOSE 22-2C NONSHIELDED NONPLENUM

## ANIXTER PART NO.

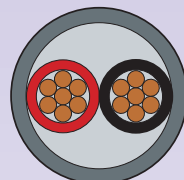
CBL-22/2-NS-PVC-REEL

CBL-22/2-NS-PVC-BOX

Description	22/2 stranded nonshielded PVC communications cable
Construction	This cable consists of a) two bare copper-insulated conductors and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800 – CMR, CE, RoHS

## CONSTRUCTION PARAMETERS

Conductor and Stranding	22 AWG bare copper 7x30
Insulation Material and Thickness	PVC, 0.010"
Number of Conductors	2
Shield	None
Jacket Material and Thickness	PVC, 0.015"
Overall Cable Diameter	0.128" nominal
Approximate Cable Weight	8.4 lbs/1,000 ft
Flame Rating	UL: UL1666 Riser Flame Test C(UL): FT4



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## ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	-20° to +75° C
Operating Voltage	300 V rms (maximum)
Capacitance Between Conductors @ 1 kHz	25 pF/ft
Nominal Conductor DC Resistance @ 20° C	16.1 ohms/1,000 ft
Maximum Recommended Current	2.8 amps per conductor @ 25° C

## APPEARANCE AND PACKAGING

Insulation Colors	Black, red
Jacket Color	Grey
Legend (Surface Ink Print)	22 AWG (UL) Type CMR 75C C(UL) ROHS
Packaging	Available in 1,000-foot reels and pull-out boxes. The jacket is sequentially footmarked.

**ANIXTER**

# GENERAL PURPOSE 22-3C NONSHIELDED PLENUM

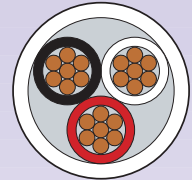
**ANIXTER PART NO.**

**CBL-22/3-NS-PLN-REEL**  
**CBL-22/3-NS-PLN-BOX**

Description	22/3 stranded nonshielded plenum communications cable
Construction	This cable consists of a) three bare copper-insulated conductors and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800 – CMP, CE, RoHS

**CONSTRUCTION PARAMETERS**

Conductor and Stranding	22 AWG bare copper 7x30
Insulation Material and Thickness	Low smoke PVC, 0.009"
Number of Conductors	3
Shield	None
Jacket Material and Thickness	Low smoke PVC, 0.015"
Overall Cable Diameter	0.131" nominal
Approximate Cable Weight	13.3 lbs/1,000 ft
Flame Rating	UL: UL910/NFPA262 C(UL): FT6



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**ELECTRICAL AND ENVIRONMENTAL PROPERTIES**

Temperature Rating	0 °C to +75 °C
Operating Voltage	300 V rms (maximum)
Capacitance Between Conductors @ 1 kHz	25 pF/ft
Nominal Conductor DC Resistance @ 20 °C	16.1 ohms/1,000 ft
Maximum Recommended Current	2.8 amps per conductor @ 25 °C

**APPEARANCE AND PACKAGING**

Insulation Colors	Black, red, white
Jacket Color	White
Legend (Surface Ink Print)	22 AWG (UL) Type CMP 75 °C C(UL) ROHS
Packaging	Available in 1,000-foot reels and pull-out boxes.  The jacket is sequentially footmarked.

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# GENERAL PURPOSE 22-3C NONSHIELDED NONPLENUM

## ANIXTER PART NO.

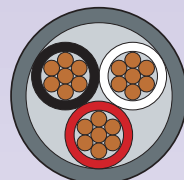
**CBL-22/3-NS-PVC-REEL**

**CBL-22/3-NS-PVC-BOX**

Description	22/3 stranded nonshielded PVC communications cable
Construction	This cable consists of a) three bare copper-insulated conductors and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800 – CMR, CE, RoHS

## CONSTRUCTION PARAMETERS

Conductor and Stranding	22 AWG bare copper 7x30
Insulation Material and Thickness	PVC, 0.010"
Number of Conductors	3
Shield	None
Jacket Material and Thickness	PVC, 0.015"
Overall Cable Diameter	0.135" nominal
Approximate Cable Weight	11.6 lbs/1,000 ft
Flame Rating	UL: UL1666 Riser Flame Test C(UL): FT4



**NORTHFlex®**

## ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	-20° C to +75° C
Operating Voltage	300 V rms (maximum)
Capacitance Between Conductors @ 1 kHz	25 pF/ft
Nominal Conductor DC Resistance @ 20° C	16.2 ohms/1,000 ft
Maximum Recommended Current	2.8 amps per conductor @ 25° C

## APPEARANCE AND PACKAGING

Insulation Colors	Black, red, white
Jacket Color	Grey
Legend (Surface Ink Print)	22 AWG (UL) Type CMR 75° C C(UL) ROHS
Packaging	Available in 1,000-foot reels and pull-out boxes. The jacket is sequentially footmarked.

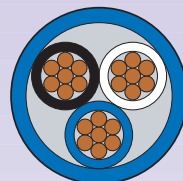
**ANIXTER**

## N-2 BUS CABLE 22-3C NONSHIELDED PLENUM

<b>ANIXTER PART NO.</b>	<b>CBL-22/3BLU-PLN-REEL</b> <b>CBL-22/3BLU-PLN-BOX</b>
Description	22/3 stranded nonshielded plenum communications cable
Construction	This cable consists of a) three bare copper-insulated conductors and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800 – CMP, CE, RoHS

### CONSTRUCTION PARAMETERS

Conductor and Stranding	22 AWG bare copper 7x30
Insulation Material and Thickness	Low smoke PVC, 0.009"
Number of Conductors	3
Shield	None
Jacket Material and Thickness	Low smoke PVC, 0.015"
Overall Cable Diameter	0.131" nominal
Approximate Cable Weight	13.3 lbs/1,000 ft
Flame Rating	UL: UL910/NFPA262 C(UL): FT6



**NorthFlex®**

### ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	0 °C to +75 °C
Operating Voltage	300 V rms (maximum)
Capacitance Between Conductors @ 1 kHz	25 pF/ft
Nominal Conductor DC Resistance @ 20 °C	16.1 ohms/1,000 ft
Maximum Recommended Current	2.8 amps per conductor @ 25 °C

### APPEARANCE AND PACKAGING

Insulation Colors	Black, blue, white
Jacket Color	Blue
Legend (Surface Ink Print)	JCI N-2 Bus Cable 22 AWG (UL) Type CMP C(UL) Type CMP FT-6 Northflex ROHS
Packaging	Available in 1,000-foot reels and pull-out boxes.  The jacket is sequentially footmarked.

# FIELD CONTROLLER (FC) BUS CABLE 22-3C SHIELDED PLENUM

## ANIXTER PART NO.

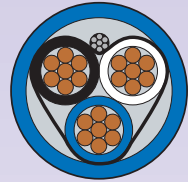
**CBL-22/3-FC-PLN-REEL**

**CBL-22/3-FC-PLN-BOX**

Description	22/3 stranded shielded plenum FC Bus communication cable
Construction	This cable consists of a) three bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800 – CMP, CE, RoHS

## CONSTRUCTION PARAMETERS

Conductor and Stranding	22 AWG bare copper 7x30
Insulation Material and Thickness	Low smoke PVC, 0.009"
Number of Conductors	3
Shield	Alum/poly, 100% coverage
Drain	24 AWG 7x32 tinned copper
Jacket Material and Thickness	Low smoke PVC, 0.015"
Overall Cable Diameter	0.131" nominal
Approximate Cable Weight	13.3 lbs/1,000 ft
Flame Rating	UL: UL910/NFPA262 C(UL): FT6



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## ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	0 °C to +75 °C
Operating Voltage	300 V rms (maximum)
Capacitance Between Conductors @ 1 kHz	25 pF/ft
Nominal Conductor DC Resistance @ 20 °C	16.1 ohms/1,000 ft
Maximum Recommended Current	2.8 amps per conductor @ 25 °C

## APPEARANCE AND PACKAGING

Insulation Colors	Black, blue, white
Jacket Color	Blue
Legend (Surface Ink Print)	JCI FC Bus Cable 22AWG (UL) Type CMP C(UL) Type CMP FT6 Northflex ROHS
Packaging	Available in 1,000-foot reels and pull-out boxes. The jacket is sequentially footmarked.



# FIELD CONTROLLER (FC) BUS CABLE 22-3C SHIELDED NONPLENUM

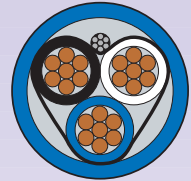
**ANIXTER PART NO.**

**CBL-22/3-FC-PVC-REEL**  
**CBL-22/3-FC-PVC-BOX**

Description	22/3 stranded shielded PVC FC Bus communication cable
Construction	This cable consists of a) three bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800 – CMR, CE, RoHS

**CONSTRUCTION PARAMETERS**

Conductor and Stranding	22 AWG bare copper 7x30
Insulation Material and Thickness	PVC, 0.010"
Number of Conductors	3
Shield	Alum/poly, 100% coverage
Drain	24 AWG 7x32 tinned copper
Jacket Material and Thickness	PVC, 0.015"
Overall Cable Diameter	0.138" nominal
Approximate Cable Weight	13.7 lbs/1,000 ft
Flame Rating	UL: UL1666 Riser Flame Test C(UL): FT4



**NorthFlex®**

**ELECTRICAL AND ENVIRONMENTAL PROPERTIES**

Temperature Rating	-20° C to +75° C
Operating Voltage	300 V rms (maximum)
Capacitance Between Conductors @ 1 kHz	31 pF/ft
Nominal Conductor DC Resistance @ 20° C	16.4 ohms/1,000 ft
Max. Recommended Current	2.8 amps per conductor @ 25° C

**APPEARANCE AND PACKAGING**

Insulation Colors	Black, blue, white
Jacket Color	Blue
Legend (Surface Ink Print)	JCI FC Bus Cable 22AWG (UL) Type CMR C(UL) Type CMR FT-4 Northflex ROHS
Packaging	Available in 1,000-foot reels and pull-out boxes.  The jacket is sequentially footmarked.

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# SENSOR ACTUATOR (SA) BUS CABLE 22-2P SHIELDED PLENUM

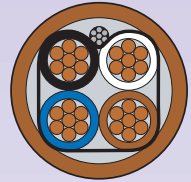
## ANIXTER PART NO.

**CBL-22/2P-SA-PLN-REE**  
**CBL-22/2P-SA-PLN-BOX**

Description	22/2 pair stranded shielded plenum SA Bus communication cable
Construction	This cable consists of a) two pairs of bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800 – CMP, CE, RoHS

## CONSTRUCTION PARAMETERS

Conductor and Stranding	22 AWG bare copper 7x30
Insulation Material and Thickness	Low smoke PVC, 0.009"
Number of Pairs	2 pairs (4 conductors total)
Shield	Alum/poly, 100% coverage
Drain	24 AWG 7x32 tinned copper
Jacket Material and Thickness	Low smoke PVC, 0.015"
Overall Cable Diameter	0.203" nominal
Approximate Cable Weight	20.7 lbs/1,000 ft
Flame Rating	UL: UL910/NFPA262 C(UL): FT6



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## ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	0 °C to +75 °C
Operating Voltage	300 V rms (maximum)
Capacitance Between Conductors @ 1 kHz	33 pF/ft
Nominal Conductor DC Resistance @ 20 °C	16.3 ohms/1,000 ft
Maximum Recommended Current	2.2 amps per conductor @ 25 °C

## APPEARANCE AND PACKAGING

Insulation Colors	Pair no. 1: black & white, Pair no. 2: blue & brown
Jacket Color	Brown
Legend (Surface Ink Print)	JCI SA Bus Cable 22AWG (UL) Type CMP C(UL) Type CMP FT6 Northflex ROHS
Packaging	Available in 1,000-foot reels and pull-out boxes. The jacket is sequentially footmarked.



# SENSOR ACTUATOR (SA) BUS CABLE 22-2P SHIELDED NONPLENUM

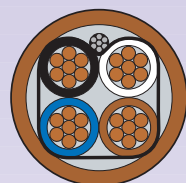
**ANIXTER PART NO.**

**CBL-22/2P-SA-PVC-RL**  
**CBL-22/2P-SA-PVC-BOX**

Description	22/2 pair stranded shielded PVC SA Bus communications cable
Construction	This cable consists of a) two pairs of bare copper-insulated conductors with an overall shield and drain wire and b) an overall jacket. The cable has a rip cord for easy jacket removal.
Approvals	UL Standard 444, NEC Article 800 – CMR, CE, RoHS

**CONSTRUCTION PARAMETERS**

Conductor and Stranding	22 AWG bare copper 7x30
Insulation Material and Thickness	PVC, 0.010"
Number of Pairs	2 pairs (4 conductors total)
Shield	Alum/poly, 100% coverage
Drain	24 AWG 7x32 tinned copper
Jacket Material and Thickness	PVC, 0.015"
Overall Cable Diameter	0.209" nominal
Approximate Cable Weight	19.5 lbs/1,000 ft
Flame Rating	UL: UL1666 Riser Flame Test C(UL): FT4



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**ELECTRICAL AND ENVIRONMENTAL PROPERTIES**

Temperature Rating	-20 °C to +75 °C
Operating Voltage	300 V rms (maximum)
Capacitance Between Conductors @ 1 kHz	31 pF/ft
Nominal Conductor DC Resistance @ 20 °C	16.3 ohms/1,000 ft
Maximum Recommended Current	2.2 amps per conductor @ 25 °C

**APPEARANCE AND PACKAGING**

Insulation Colors	Pair no. 1: black & white, Pair no. 2: blue & brown
Jacket Color	Brown
Legend (Surface Ink Print)	JCI SA Bus Cable 22AWG (UL) Type CMR C(UL) Type CMR FT-4 Northflex ROHS
Packaging	Available in 1,000-foot reels and pull-out boxes. The jacket is sequentially footmarked.

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<b>ANIXTER PART NO.</b>	<b>CBL-24/8NAT-PLN</b>
Description	24 AWG 4-pair plenum Category 3 data cable
Ratings	UL Standard 444, ICEA S-90-661, EIA/TIA-568-B.2 UL & c(UL) Type CMP
Certifications	Category 3

**CONSTRUCTION PARAMETERS**

	Information	Diameter (in.)
Conductors	Solid bare copper	0.020
Insulation	Low smoke PVC	0.035
Pair Lays	Each pair has different lay length for crosstalk prevention.	
Rip cord	Polyester	
Jacket	Low smoke PVC	0.15

**ELECTRICAL AND ENVIRONMENTAL PROPERTIES**

DC Resistance Maximum	9.38 (ohms/100 m @ 20 °C)	
Mutual Capacitance (nominal)	18 pF/ft @ 1 kHz	
Characteristic Impedance (ohms)	1–16 MHz	85-115 (minimum-maximum)
Worst-pair Near-end Crosstalk Minimum	<b>Hz</b>	<b>dB</b>
	772 kHz	43**
	1.0 MHz	41**
	4.0 MHz	32**
	8.0 MHz	27**
	10.0 MHz	26**
	16.0 MHz	23**

The (\*\*) values are for information only. The minimum NEXT coupling loss for any pair combination at room temperature is to be greater than the value determined using the formula  $NEXT (FMHz)^3 NEXT(0.772) - 15 \log_{10}(FMHz/0.772)$  for all frequencies in the range of 772 kHz to 16 MHz for a minimum length of 100 m.

Attenuation Maximum (db/100 m)	<b>Hz</b>	<b>dB</b>
	772 kHz	2.2*
	1.0 MHz	2.6*
	4.0 MHz	5.6*
	8.0 MHz	8.5*
	10.0 MHz	9.7*
	16.0 MHz	13.1*

The (\*) values are for information only. The SRL is to be determined using the formula  $SRL_{10} \geq SRL_{10} - 10 \log_{10}(F/10)$

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## PLEN-LAN 3 DATA CABLE (CONTINUED)

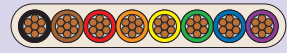
### APPEARANCE AND PACKAGING

Pair Colors	White/blue with blue/white, white/orange with orange/white, white/green with green/white, white/brown with brown/white
Jacket Color	Natural
Jacket Print	CAT3 JOHNSON CONTROLS-METASTAT CABLE (PLENUM) 24 AWG TYPE CMP OR MPP VERIFIED (UL) CAT 3 C(UL) (ETL) VERIFIED TO CAT3 FT6 CAT3 NORTHFLEX (also printed with sequential footage, date code and reel #)
Flame Rating	UL: UL-910 c(UL): FT6
Applicable NEC Article	800
Applicable TIA/EIA	568-B.2
Approximate Cable Weight	17 lbs/1,000 ft
Packaging	Available in 1,000-foot reels and pull-out boxes.  The jacket is sequentially footmarked.

<b>ANIXTER PART NO.</b>	<b>CBL-24/8NAT-PLN-FLT</b>
Description	24 AWG 8-conductor plenum data cable flat
Rating	UL Listed as CL3P

### CONSTRUCTION PARAMETERS

Conductor and Stranding	22 AWG tinned copper, 7/32
Insulation Material and Thickness	FEP, 0.007"
Number of Conductors	8 laid flat and parallel
Shield	N/A
Drain	N/A
Jacket Material and Thickness	Low smoke PVC, 0.015"
Overall Cable Diameter	0.335" x 0.068"
Approximate Cable Weight	18 lbs/1,000 ft nominal



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### ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	-20 °C to 75 °C
Operating Voltage	300 V rms maximum

### APPEARANCE AND PACKAGING

Insulation Colors	Black, brown, red, orange, yellow, green, blue, violet
Jacket Color	Natural
Legend (Surface Ink Print)	Johnson Controls MetaStat MFG E# Type CL3P 75C 24 AWG (UL)
Packaging	Available in 1,000-foot reels.



## 25-FOOT CABLE ASSEMBLY PLENUM

<b>ANIXTER PART NO.</b>	<b>CBL-STAT5</b>	
Description	24 AWG 4-pair plenum Category 3 data cable Plen-Lan 3	
Rating	UL Standard 444, ICEA S-80-576, EIA/TIA-568, CSA FT6	
Certifications	ETL and UL Verified Category 3	
<b>CONSTRUCTION PARAMETERS</b>		
	<b>Information</b>	<b>Diameter (in.)</b>
Conductors	Solid bare copper	0.020
Insulation	Low smoke PVC	0.035
Pair Lays	Each pair has different lay length for crosstalk prevention.	
Rip cord	Polyester	
Jacket	Low smoke PVC	0.160
<b>ELECTRICAL AND ENVIRONMENTAL PROPERTIES</b>		
Temperature Rating	75°C	
Operating Voltage	300 V rms maximum	
<b>APPEARANCE AND PACKAGING</b>		
Pair Colors	White/blue with blue/white, white/orange with orange/white, white/green with green/white, white/brown with brown/white	
Jacket Color	Natural	
Cable Length	25 feet with RJ45 jacks. Straight wiring.	

<b>ANIXTER PART NO.</b>	<b>CBL-STAT50</b>
Description	24 AWG 4-pair plenum Category 3 data cable Plen-Lan 3
Rating	UL Standard 444, ICEA S-80-576, EIA/TIA-568, CSA FT6
Certifications	ETL and UL Verified Category 3

## CONSTRUCTION PARAMETERS

	Information	Diameter (in.)
Conductors	Solid bare copper	0.020
Insulation	Low smoke PVC	0.035
Pair Lays	Each pair has different lay length for crosstalk prevention.	
Rip cord	Polyester	
Jacket	Low smoke PVC	0.160

## ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	75 °C
Operating Voltage	300 V rms maximum

## APPEARANCE AND PACKAGING

Pair Colors	White/blue with blue/white, white/orange with orange/white, white/green with green/white, white/brown with brown/white
Jacket Color	Natural
Cable Length	50 feet with RJ45 jacks. Straight wiring.



## 75-FOOT CABLE ASSEMBLY PLENUM

<b>ANIXTER PART NO.</b>	<b>CBL-STAT75</b>
Description	24 AWG 4-pair plenum Category 3 data cable Plen-Lan 3
Rating	UL Standard 444, ICEA S-80-576, EIA/TIA-568, CSA FT6
Certifications	ETL and UL Verified Category 3

### CONSTRUCTION PARAMETERS

	Information	Diameter (in.)
Conductors	Solid bare copper	0.020
Insulation	Low smoke PVC	0.035
Pair Lays	Each pair has different lay length for crosstalk prevention.	
Rip cord	Polyester	
Jacket	Low smoke PVC	0.160

### ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	75°C
Operating Voltage	300 V rms

### APPEARANCE AND PACKAGING

Pair Colors	White/blue with blue/white, white/orange with orange/white, white/green with green/white, white/brown with brown/white
Jacket Color	Natural
Cable Length	75 feet with RJ45 jacks. Straight wiring.



# 100-FOOT CABLE ASSEMBLY PLENUM

<b>ANIXTER PART NO.</b>	<b>CBL-STAT100</b>
Description	24 AWG 4-pair plenum Category 3 data cable Plen-Lan 3
Rating	UL Standard 444, ICEA S-80-576, EIA/TIA-568, CSA FT6
Certifications	ETL and UL Verified Category 3

## CONSTRUCTION PARAMETERS

	Information	Diameter (in.)
Conductors	Solid bare copper	0.020
Insulation	Low smoke PVC	0.035
Pair Lays	Each pair has different lay length for crosstalk prevention.	
Rip cord	Polyester	
Jacket	Low smoke PVC	0.160

## ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Temperature Rating	75 °C
Operating Voltage	300 V rms maximum

## APPEARANCE AND PACKAGING

Pair Colors	White/blue with blue/white, white/orange with orange/white, white/green with green/white, white/brown with brown/white
Jacket Color	Natural
Cable Length	100 feet with RJ45 jacks. Straight wiring.



# NETWORK SENSOR DATA CABLE PLENUM

NET  
WORK  
SENSOR  
CABLE

<b>ANIXTER PART NO.</b>	<b>CMP-00324SPP-3</b>
Description	24 AWG 3-pair plenum Category 3 data cable
Standards Compliance	UL 444, ANSI/TIA/EIA-568-B.2 Category 3
Ratings	NEC Article 800 - (UL) CMP

## CONSTRUCTION PARAMETERS AND RATINGS

Conductor	24 AWG solid bare copper (0.020" diameter)
Insulation Material	Low smoke FR-PVC
Number of Pairs	3 pairs
Jacket Material	Low smoke FR-PVC
Overall Cable Diameter	0.15" nominal
Approximate Cable Weight	14 lbs/1,000 ft
Flame Rating	UL: UL910/NFPA262
NEC Article	800
Applicable ANSI/TIA/EIA	568-B.2 Category 3

## ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Nominal Conductor DC Resistance @ 20 °C	9.8 ohms/100 m (maximum)	
Characteristic Impedance (ohms)	100 +/-15	
Frequency (MHz)	<b>Max. Attenuation (dB/100 m) @ 20 °C</b>	<b>Min. NEXT (dB/100 m)</b>
0.772	2.2	43
1.0	2.6	41
4.0	5.6	32
8.0	8.5	27
10.0	9.7	26
16.0	13.1	23

## APPEARANCE AND PACKAGING

Pair Colors	White/blue with blue/white, white/orange with orange/white, white/green with green/white
Jacket Color	White
Legend (Surface Ink Print)	3PR 24 (UL) C(UL) CMP CAT3
Packaging	Available in 1,000-foot reels. The jacket is sequentially footmarked.

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CONTROLS

# NETWORK SENSOR DATA CABLE PLENUM – 25-FOOT CABLE ASSEMBLY

<b>ANIXTER PART NO.</b>	<b>CBL-NETWORK25</b>
Description	24 AWG 3-pair plenum Category 3 data 25-foot cable assembly
Standards Compliance	UL 444, ANSI/TIA/EIA-568-B.2 Category 3
Ratings	NEC Article 800 - (UL) CMP

## CONSTRUCTION PARAMETERS AND RATINGS

Conductor	24 AWG solid bare copper (0.020" diameter)
Insulation Material	Low smoke FR-PVC
Number of Pairs	3 pairs
Jacket Material	Low smoke FR-PVC
Connector	RJ11 6-pin connector
Flame Rating	UL: UL910/NFPA262
NEC Article	800
Applicable ANSI/TIA/EIA	568-B.2 Category 3

## ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Nominal Conductor DC Resistance @ 20 °C	9.8 ohms/100 m (maximum)
Characteristic Impedance (ohms)	100 +/-15

Frequency (MHz)	Max. Attenuation (dB/100 m) @ 20 °C	Min. NEXT (dB/100 m)
0.772	2.2	43
1.0	2.6	41
4.0	5.6	32
8.0	8.5	27
10.0	9.7	26
16.0	13.1	23

## APPEARANCE AND PACKAGING

Pair Colors	White/blue with blue/white, white/orange with orange/white, white/green with green/white
Jacket Color	White
Legend (Surface Ink Print)	3PR 24 (UL) C(UL) CMP CAT3
Cable Length	25 feet with RJ11 jacks. Straight wiring.



# NETWORK SENSOR DATA CABLE PLENUM — 50-FOOT CABLE ASSEMBLY

NET  
WORK  
SENSOR  
CABLE

<b>ANIXTER PART NO.</b>	<b>CBL-NETWORK50</b>
Description	24 AWG 3-pair plenum Category 3 data 50-foot cable assembly
Standards Compliance	UL 444, ANSI/TIA/EIA-568-B.2 Category 3
Ratings	NEC Article 800 - (UL) CMP

## CONSTRUCTION PARAMETERS AND RATINGS

Conductor	24 AWG solid bare copper (0.020" diameter)
Insulation Material	Low smoke FR-PVC
Number of Pairs	3 pairs
Jacket Material	Low smoke FR-PVC
Connector	RJ11 6-pin connector
Flame Rating	UL: UL910/NFPA262
NEC Article	800
Applicable ANSI/TIA/EIA	568-B.2 Category 3

## ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Nominal Conductor DC Resistance @ 20 °C	9.8 ohms/100 m (maximum)	
Characteristic Impedance (ohms)	100 +/-15	
Frequency (MHz)	<b>Max. Attenuation (dB/100 m) @ 20 °C</b>	<b>Min. NEXT (dB/100 m)</b>
0.772	2.2	43
1.0	2.6	41
4.0	5.6	32
8.0	8.5	27
10.0	9.7	26
16.0	13.1	23

## APPEARANCE AND PACKAGING

Pair Colors	White/blue with blue/white, white/orange with orange/white, white/green with green/white
Jacket Color	White
Legend (Surface Ink Print)	3PR 24 (UL) C(UL) CMP CAT3
Cable Length	50 feet with RJ11 jacks. Straight wiring.

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CONTROLS

# NETWORK SENSOR DATA CABLE PLENUM – 75-FOOT CABLE ASSEMBLY

<b>ANIXTER PART NO.</b>	<b>CBL-NETWORK75</b>
Description	24 AWG 3-pair plenum Category 3 data 75-foot cable assembly
Standards Compliance	UL 444, ANSI/TIA/EIA-568-B.2 Category 3
Ratings	NEC Article 800 - (UL) CMP

## CONSTRUCTION PARAMETERS AND RATINGS

Conductor	24 AWG solid bare copper (0.020" diameter)
Insulation Material	Low smoke FR-PVC
Number of Pairs	3 pairs
Jacket Material	Low smoke FR-PVC
Connector	RJ11 6-pin connector
Flame Rating	UL: UL910/NFPA262
NEC Article	800
Applicable ANSI/TIA/EIA	568-B.2 Category 3

## ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Nominal Conductor DC Resistance @ 20 °C	9.8 ohms/100 m (maximum)
Characteristic Impedance (ohms)	100 +/-15

Frequency (MHz)	Max. Attenuation (dB/100 m) @ 20 °C	Min. NEXT (dB/100 m)
0.772	2.2	43
1.0	2.6	41
4.0	5.6	32
8.0	8.5	27
10.0	9.7	26
16.0	13.1	23

## APPEARANCE AND PACKAGING

Pair Colors	White/blue with blue/white, white/orange with orange/white, white/green with green/white
Jacket Color	White
Legend (Surface Ink Print)	3PR 24 (UL) C(UL) CMP CAT3
Cable Length	75 feet with RJ11 jacks. Straight wiring.



# NETWORK SENSOR DATA CABLE PLENUM – 100-FOOT CABLE ASSEMBLY

<b>ANIXTER PART NO.</b>	<b>CBL-NETWORK100</b>
Description	24 AWG 3-pair plenum Category 3 data 100-foot cable assembly
Standards Compliance	UL 444, ANSI/TIA/EIA-568-B.2 Category 3
Ratings	NEC Article 800 - (UL) CMP

### CONSTRUCTION PARAMETERS AND RATINGS

Conductor	24 AWG solid bare copper (0.020" diameter)
Insulation Material	Low smoke FR-PVC
Number of Pairs	3 pairs
Jacket Material	Low smoke FR-PVC
Connector	RJ11 6-pin connector
Flame Rating	UL: UL910/NFPA262
NEC Article	800
Applicable ANSI/TIA/EIA	568-B.2 Category 3

### ELECTRICAL AND ENVIRONMENTAL PROPERTIES

Nominal Conductor DC Resistance @ 20 °C	9.8 ohms/100 m (maximum)	
Characteristic Impedance (ohms)	100 +/-15	
Frequency (MHz)	<b>Max. Attenuation (dB/100 m) @ 20 °C</b>	<b>Min. NEXT (dB/100 m)</b>
0.772	2.2	43
1.0	2.6	41
4.0	5.6	32
8.0	8.5	27
10.0	9.7	26
16.0	13.1	23

### APPEARANCE AND PACKAGING

Pair Colors	White/blue with blue/white, white/orange with orange/white, white/green with green/white
Jacket Color	White
Legend (Surface Ink Print)	3PR 24 (UL) C(UL) CMP CAT3
Cable Length	100 feet with RJ11 jacks. Straight wiring.



# Fact:

Anixter offers a variety of services that address supply chain challenges, and as a supply chain partner, we approach each customer from a needs-assessment perspective. Through this discovery process, each phase of your supply chain is discussed to identify key opportunities to improve service levels while reducing costs.



Sourcing

Logistics

Inventory  
Management

Product  
Enhancement  
& Packaging

Deployment

eBusiness Solutions

With more than 7,000 shipments per day, our primary business is distribution. Anixter's experience, expertise, processes, systems, global reach, people and culture can be deployed to assist your organization.

Products:

- Network cabling
- Networking, wireless and voice electronics
- Security (video surveillance, access control)
- Electrical wire & cable
- Electronic wire & cable
- Fasteners and other small components ("C" Class)

Services:

- Technical support
- Product testing and evaluation
- Supply Chain Services including:
  - Sourcing
  - Logistics
  - Inventory Management
  - Product Enhancement & Packaging
  - Deployment
  - eBusiness

**ANIXTER**

What Can Anixter Do For You?

# MULTICONDUCTOR CABLE

SOUND AND SECURITY CABLE

## ACCESS CONTROL: PLENUM

ANIXTER PART NO.	AWG	CONDUCTOR/ PAIR	CONDUCTOR TYPE	INSULATION	FOIL SHIELD	JACKET	JACKET COLOR	RATING
CBL-PLN1402C-9	14	2C	Stranded	FRPVC	Y	FRPVC	White	CL3P
CBL-PLN1802C-9	18	2C	Stranded	FRPVC	Y	FRPVC	White	CMP
CBL-PLN1802C-96	18	2C	Stranded	FRPVC	N	FRPVC	White/blue	CMP/MMP
CBL-PLN1802P-98	18	2P	Stranded	FRPVC	Y	FRPVC	White/gray	CMP
CBL-PLN1806C-9	18	6C	Stranded	FRPVC	N	FRPVC	White	MMP

Above cables available in 1,000-foot put-ups.

## ACCESS CONTROL: COMPOSITE CABLE

ANIXTER PART NO.	DESCRIPTION
CBL-PVC112115	22-3P stranded bare copper shield + 22-4C stranded bare copper shield + 22-2C stranded bare copper shield + 18-4C stranded bare copper shield Each component is insulated and labeled with an overall FRPVC jkt*
CBL-PVC173295	18-2P stranded bare copper each pair shield + 20-1P stranded bare copper shield with an overall gray PVC jacket CM rated

Above cables available in 1,000-foot put-ups.

\*Also available in non-jacket banana peel construction.

## FIRE ALARM: PLENUM

ANIXTER PART NO.	AWG	CONDUCTOR/ PAIR	CONDUCTOR TYPE	INSULATION	FOIL SHIELD	JACKET	JACKET COLOR	RATING
FA-1402C-1-2N-03	14	2C	Solid	FRPVC	N	FRPVC	Red	FPLP
FA-1402C-1-2S-03	14	2C	Solid	FRPVC	Y	FRPVC	Red	FPLP
FA-1802C-1-2N-03	16	2C	Solid	FRPVC	N	FRPVC	Red	FPLP
FA-1802C-1-2S-03	18	2C	Solid	FRPVC	Y	FRPVC	Red	FPLP

## FIRE ALARM: NONPLENUM

ANIXTER PART NO.	AWG	CONDUCTOR/ PAIR	CONDUCTOR TYPE	INSULATION	FOIL SHIELD	JACKET	JACKET COLOR	RATING
FA-1402C-1-1N-03	14	2C	Solid	PVC	N	PVC	Red	FPLR
FA-1402C-1-1S-03	14	2C	Solid	PVC	Y	PVC	Red	FPLR
FA-1802C-1-1N-03	18	2C	Solid	PVC	N	PVC	Red	FPLR
FA-1802C-1-1S-03	18	2C	Solid	PVC	Y	PVC	Red	FPLR



Please refer to Anixter's Security Solutions Catalog for Security Electronics.

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COAX CCTV, CATV: PLENUM

ANIXTER PART NO.	RG TYPE	NOM. IMP. (OHMS)	NOM. CAP. PF/FT.	NOM. VEL. OF PROP.	AWG	INSULATION (IN.)	SHIELD	JACKET (IN.)	NOM. OD (IN.)	APPROX. WEIGHT LBS/1,000 FT	RATING
RG59PLN	RG-59/U	75	16.5	82%	20 solid BC	FFEP 0.054	95% BC	0.017	0.196	38	CL2P/CMP
RG59SIAMESEPLN	RG-59/U 18-1 pair	75	17.8	82%	20 solid BC 18 (7X26) BC	FFEP 0.140 FRPVC 0.06	95% BC unshielded	0.018	0.212 × 0.380	52	CL2P
RG6PLN	RG-6/U	75	16.5	82%	18 solid BC	FFEP 0.065	95% BC	0.022	0.238	43	CL2P, CMP
RG11PLN	RG-11/U	75	16.5	82%	14 solid BC	FFEP 0.108	95% BC	0.018	0.344	77	CL2P

COAX CCTV, CATV: NONPLENUM

ANIXTER PART NO.	RG TYPE	NOM. IMP. (OHMS)	NOM. CAP. PF/FT.	NOM. VEL. OF PROP.	AWG	INSULATION (IN.)	SHIELD	JACKET (IN.)	NOM. OD (IN.)	APPROX. WEIGHT LBS/1,000 FT	RATING
RG59PVC	RG-59/U	75	17.5	78%	20 solid BC	FPE 0.057	95% BC	0.034	0.242	34	CL2/CM
RG59PVCSIAMESE	RG-59/U 18-1 pair	75	17.5	78%	20 solid BC 18 (7×26) BC	FPE 0.143 PVC 0.046	95% BC unshielded	0.018	0.239 × 0.468	56	CM
RG6PVC	RG-6/U	75	17.4	78%	18 solid BC	FPE 0.070	95% BC	0.034	0.265	41	CM
RG11PVC	RG-11/U	75	17.3	78%	14 solid BC	FPE 0.108	95% BC	0.046	0.400	85	CM

Above cables available in 1,000-foot put-ups.



Please refer to Anixter's Security Solutions Catalog for Security Electronics.



## PROGRAM ACCESSORIES

**MODULAR PLUG FOR 8-CONDUCTOR  
ROUND SOLID CABLE  
ANIXTER PART NO.**

**109687**



Description	All are for individual conductor insulation O.D. of .035/.039 except where noted.
Technical Information and Standards	Plastic: High-impact, flame-retardant, UL Rated 94V-0 thermoplastic
Manufacturer	Tyco/AMP
Manufacturer No.	5-554720-4
AWG	24/26
Overall Cable Maximum O.D.	.100 x .350

**MODULAR PLUG FOR 6-CONDUCTOR  
ROUND SOLID CABLE  
ANIXTER PART NO.**

**109684**



Description	All are for individual conduction insulation O.D. of .035/.039 except where noted.
Technical Information and Standards	Plastic-high-impact, flame-retardant
Manufacturer	Tyco/AMP
Manufacturer No.	5-641337-4
Overall Cable Max. O.D.	.090 x .260

**MODULAR IN-LINE COUPLERS  
ANIXTER PART NO.**

**122653**



Description	Compact couplers for two modular plugs; couplers snap into 0.585" x 0.765" rectangular wallplate outlets. Wired one-to-one. 8-position.
Manufacturer	Tyco/AMP
Manufacturer No.	555052-1

**HAND CRIMP TOOL FOR MOD PLUGS  
ANIXTER PART NO.**

**143315**



Description	Hand crimp tool
Manufacturer	Tyco/AMP
Manufacturer No.	2-231652

**HAND CRIMP TOOL WITH DIE  
ANIXTER PART NO.**

**143316**

Description	Hand crimp tool with die for 6-position, 6- and 4-contact modular plug.
Manufacturer	Tyco/AMP
Manufacturer No.	2-231652-8

**CRIMP DIE****ANIXTER PART NO.****163137**

## Description

Crimp die for RJ45 plug: 8-position, 8-conductor

## Manufacturer

Tyco/AMP

## Manufacturer No.

1-853400-0

**HEAVY DUTY HAND TOOL****ANIXTER PART NO.****143320**

## Description

Cuts, strips and terminates 8-position plugs, shielded and unshielded cable.

## Manufacturer

Tyco/AMP

## Manufacturer No.

2-231652-1

**BNC PLUGS****ANIXTER PART NO.****142328**

## Description

Thin Ethernet, PVC and plenum (Belden 9907 and 89907 or equal), 50 ohms, 10BASE2 IEEE 802.3

## Termination Type

H-C-C (Hex Crimp Center Contact &amp; Braid)

## Manufacturer

Tyco/AMP

## Manufacturer No.

2-221128-7

**BNC ADAPTERS****ANIXTER PART NO.****142330**

## Description

Tee jack-plug-jack, 50 ohms

## Manufacturer

Tyco/AMP

## Manufacturer No.

413592-9

**BNC ADAPTERS****ANIXTER PART NO.****150847**

## Description

Straight jack-jack, 50 ohms

## Manufacturer

Tyco/AMP

## Manufacturer No.

414414-1

**CRIMP TOOLS****ANIXTER PART NO.****133100**

## Description

Coaxial 58/59/62 hex crimp tool

## Manufacturer No.

58433-2

**ANIXTER**

## PROGRAM ACCESSORIES

**S.I. TECH MEDIA CONVERTER**  
**ANIXTER PART NO.**  
**S.I. TECH PART NO.**

**169023**  
**2110**



**Description**

N2 Bus and BACNet converts electrical RS-485 signal to optical for transmission over fiber. Operating distance is 6,600 feet for multimode fiber and over 23,000 feet for single-mode.

**Features**

9600 Kbps asynchronous, RS-485 half duplex operation; ST Connector standard (SMA option); for card version use S.I. Tech Model 2310; cable assembly use S.I Tech Model 7110 (Model 2110 - Anixter Part No. 169021 to N2 Bus); high-power option available; 0° to +50°C operating range.

**Construction**

Size: 1.75" x 3" x .625"; weight: .25 lb.; external power supply S.I. Tech Model 2121 - Anixter Part No. 169022 (110 V AC to 12 V DC). Power Supply 2122 is used for 230 V AC applications.

**S.I. TECH MEDIA CONVERTER**  
**ANIXTER PART NO.**  
**S.I. TECH PART NO.**

**269488**  
**2310**



**Description**

Card version of the S.I.Tech Model 2110 designed to work with Johnson Controls System and used with a bussed motherboard # 3520 and Series 3000 Rack (holds 16 cards) with 4000 Power Supply. Operating distance is 6,600 feet for multimode fiber and over 23,000 feet for single-mode.

**Features**

9,600 Kbps asynchronous half duplex operation; ST Connector standard (SMA Option). 0° to +50°C operating range. High-power option is available.

**Construction**

Card size is Eurocard 3.9" x 6.8". Weight: .5 lb. Enclosure: 19" rack.

**S.I. TECH MEDIA CONVERTER**  
**ANIXTER PART NO.**  
**S.I. TECH PART NO.**

**230998**  
**2550**



Description	Small 10 Mbps Ethernet to fiber modem to connect Johnson Controls Ethernet-based equipment to any fiber optic 10BASE-FL/FOIRL network. Connects to RJ-45. Operating distance is 6,600 feet for multimode fiber and over 23,000 feet for single-mode.
Features	Supports 10BASE-FL or FOIRL standards; ST Connector standard (SMA option). 0° to 50°C operating range; 4 LED indicators (Link Status, Receive Data, Transmit Data, and Power) provide visible verification of transmission status and transceiver functions.
Construction	Metal enclosure is 2" x 3.5" x 1". Weight: .25 lb. Uses external power supply S.I. Tech Model 2121 (110 V AC to 12 V DC). Power Supply #2122 is used for 230 V AC applications.

**S.I. TECH MEDIA CONVERTER**  
**ANIXTER PART NO.**  
**S.I. TECH PART NO.**

**319658**  
**2110-SM**



Description	Media converter. RS-485 to fiber; single-mode; ST; optical asynchronous mini bit-driver point to point.
Features	0 to 56 Kbps asynchronous, RS-485 half duplex operation 6,600 ft (2 km) maximum distance capability 0 °C to +50 °C operating range ST Connector receptacle (SMA option) Designed to work with Johnson Controls System (point to point) Cable assembly use 7110 (2110 to N2 Bus)
Construction	Size: 1.75" x 3" x .625"; weight .25 lbs. External power supply S.I. Tech Model 2121 - Anixter Part No. 169022 (110 V AC to 12 V DC). Power Supply 2122 is used for V AC applications.





## Anything Else Is a Breach of Security.

To ensure optimum security installation performance, be sure to use the watchdog of the industry: Belden® New Generation® cables.

A system failure, or interruption of signal, can be a catastrophic occurrence in any security installation. That's why you need Belden New Generation cables, a product line recognized the world over for its quality and reliability.

The New Generation line also represents one of the largest, most economical and up-to-date selections of multi-conductor and coaxial products on the market today: a full complement of cables for access control, CCTV, computer interconnect, alarm, fire alarm and other security applications — complete with water-blocked options for installation in intermittently wet environments.

New Generation cables also offer installer-friendly features such as:

- NEC riser and plenum rated; UL and C(UL) listed as applicable.
- A unique composite cable design, Access Control Banana Peel® strips away installation time and labor.
- Rip cords for easy jacket removal and sequential footage markings on the jacket to eliminate guesswork and waste.

For space savings and to help eliminate waste, many product codes also are available with Belden's new Belcoil® packaging — a revolutionary new tangle-proof packaging concept.

So look to the top dog. Look to Belden for your next security installation.

1.800.BELDEN.1  
[www.belden.com](http://www.belden.com)



**BELDEN**  
SENDING ALL THE RIGHT SIGNALS

## Data Slim Enclosure

The Data Slim is a freestanding enclosure with a 24" wide x 30" deep footprint. This makes the enclosure ideal for security applications where space is at a premium. The unit's rails have a 19" EIA mounting. The sliding rails can be adjusted after installation to allow for cable management and different depths of equipment without removing terminated equipment. Among the many features and benefits of this modular unit are:

- Reversible doors: Spring-loaded hinges allow quick change of door swing
- Lift-off side panels: Flush surface lock fasteners permit quick disconnect and lift off
- Cable gland plate: Adjustable bottom plate minimizes dirt and dust inside the enclosure
- Cable access top: Features a 14.25" x 4" cable access rubber gland which helps prevent dust from entering the enclosure
- Rear cable plate: One. 3-7/8" x 8-1/2" openings for cable access with a removable plate and edge grommet kit. Also features two 1.75" capped openings
- Tempered safety glass: Strengthens door and its easy-to-clean, nonscratching, tinted bronze color enhances overall appearance
- Grounding kit included



XSL 48

### ORDERING MATRIX

Frame Height	Mounting	Front	Sides
# Description	# Description	# Description	# Description
48	1 19" mounting, 10-32 tapped	1 Solid	1 One side
72	2 6 mm mounting, cage nut	2 Glass	2 Two sides
78		3 Glass vented	3 One side perforated
84		4 Perforated	4 Two sides perforated
		0 None	0 None

Color	Top	Rear	Power Strips
# Description	# Description	# Description	# Description
1 Blue	2 10" diameter fan	1 Solid	2 4' 16 outlet surge suppressor, 15' cord
2 Beige	3 4" diameter fan	2 Vented	3 2' 8 outlet 15 amp/15' cord
3 Black	4 Solid	0 None	4 19' rack-mount 6 outlet (rear) 15 amp/15' cord
4 Gray	5 Vented		5 19' rack-mount 6 outlet (rear) surge suppressor, 15 amp/15' cord
	0 None		6 4' 16 outlet surge suppressor, 20 amp/15' cord
			0 None

XSL

3

### Configuration example:

Part No. XSL84-3-124226

Data Slim Enclosure, 84" black, 19" mounting, 10" fan top. Perforated front door, vented rear door, two sides, 20 amp power strip.



# BELDEN ULTRA SERVER ENCLOSURE (XUS)

## Ultra Server Enclosure

The Ultra Server is a freestanding enclosure with a 24" wide x 36" deep footprint. The enclosure features numerous top and bottom entry points for easy configuration to match your needs. The unit's mounting rails have a 19" EIA spacing. The sliding rails can be adjusted after installation to allow for cable management and different depths of equipment. Among the many features and benefits of this modular unit are:

- Reversible doors: Spring-loaded hinges allow quick change of door swing
- Lift-off side panels: Flush surface lock fasteners permit quick disconnect and lift off
- Door and side panel security: Doors and side panels lock; handles are flush-mounted
- Cable access top: Features a 14.25" x 4" cable access rubber gland which helps prevent dust from entering the enclosure
- Tempered safety glass: Strengthens door and its easy-to-clean, non-scratching, tinted bronze color enhances overall appearance
- Grounding kit included



XUS 84

### ORDERING MATRIX

Frame Height	Mounting	Front	Sides
# Description	# Description	# Description	# Description
78	1 6 mm mounting, cage nut	3 Glass vented	1 One side
84		4 Perforated	2 Two sides
		5 Rigid perforated	3 One side perforated
		6 Split perforated	4 Two sides perforated
		0 None	0 None

Color	Top	Rear	Power Strips
# Description	# Description	# Description	# Description
2 Beige	1 Perforated	1 Solid	2 4' 16 outlet surge suppressor, 15' cord
3 Black	2 10" diameter fan	2 Vented	3 2' 8 outlet 15 amp/15' cord
	3 4" diameter fan	0 None	4 19' rack-mount 6 outlet (rear) 15 amp/15' cord
	4 Solid		5 19' rack-mount 6 outlet (rear) surge suppressor, 15 amp/15' cord
	0 None		6 4' 16 outlet surge suppressor, 20 amp/15' cord
			0 None

**Configuration example:**  
**Part No. XUS84-3-124226**

Ultra Server Enclosure, 84" black, 19" mounting, 10" fan top. Perforated front door, vented rear door, two sides, 20 amp power strip.

ACCESSORIES



# BELDEN WALL MOUNT ENCLOSURE (XWM)

## Wall Mount Enclosure

The Wall Mount Enclosure provides a secure and permanent location for a variety of components. Most units feature 19" mounting rails and are available with either a glass door with lock or a steel door with lock and one pair of 10-32 tapped rails. A 48" NEMA-12 model is also offered for harsh environments.

### DESCRIPTION

#### WALL MOUNT ENCLOSURES WITH GLASS DOOR WITH LOCK, 1 PAIR, 10-32 TAPPED RAILS

Anixter Part No.	Belden Part No.	Height	Width	Depth	Weight	Mounting	Rack Spaces
XWM-2420-GD-C	XWM-2420-GD-C	24"	21.25"	20 5/8"	75 lb	19"	12U
XWM-2424-GD-C	XWM-2424-GD-C	24"	21.25"	24 5/8"	80 lb	19"	12U
XWM-3620-GD-C	XWM-3620-GD-C	36"	21.25"	20 5/8"	90 lb	19"	18U
XWM-3624-GD-C	XWM-3624-GD-C	36"	21.25"	24 5/8"	98 lb	19"	18U
XWM-4820-GD-C	XWM-4820-GD-C	48"	21.25"	20 5/8"	120 lb	19"	25U
XWM-4824-GD-C	XWM-4824-GD-C	48"	21.25"	24 5/8"	135 lb	19"	25U

### DESCRIPTION

#### WALL MOUNT ENCLOSURES WITH SOLID DOOR WITH LOCK, 1 PAIR, 10-32 TAPPED RAILS

Anixter Part No.	Belden Part No.	Height	Width	Depth	Weight	Mounting	Rack Spaces
XWM-2420-SD-C	XWM-2420-SD-C	24"	21.25"	20 5/8"	70 lb	19"	12U
XWM-2424-SD-C	XWM-2424-SD-C	24"	21.25"	24 5/8"	75 lb	19"	12U
XWM-3620-SD-C	XWM-3620-SD-C	36"	21.25"	20 5/8"	85 lb	19"	18U
XWM-3624-SD-C	XWM-3624-SD-C	36"	21.25"	24 5/8"	95 lb	19"	18U
XWM-4820-SD-C	XWM-4820-SD-C	48"	21.25"	20 5/8"	110 lb	19"	25U
XWM-4824-SD-C	XWM-4824-SD-C	48"	21.25"	24 5/8"	125 lb	19"	25U

### DESCRIPTION

#### WALL MOUNT ENCLOSURES WITH GLASS DOOR WITH LOCK

Anixter Part No.	Belden Part No.	Height	Width	Depth	Weight
XWM-2406-GD-C	XWM-2406-GD-C	24"	21.25"	6 5/8"	40 lb
XWM-3606-GD-C	XWM-3606-GD-C	36"	21.25"	6 5/8"	45 lb
XWM-4806-GD-C	XWM-4806-GD-C	48"	21.25"	6 5/8"	75 lb

### DESCRIPTION

#### WALL MOUNT ENCLOSURES WITH SOLID DOOR WITH LOCK

Anixter Part No.	Belden Part No.	Height	Width	Depth	Weight
XWM-2406-SD-C	XWM-2406-SD-C	24"	21.25"	6 5/8"	35 lb
XWM-3606-SD-C	XWM-3606-SD-C	36"	21.25"	6 5/8"	45 lb
XWM-4806-SD-C	XWM-4806-SD-C	48"	21.25"	6 5/8"	65 lb

Note: Replace "C" at the end of the part number for color: 2 = beige, 3 = black

\*Specify solid or glass door

### ANIXTER PART NO.

#### BHRR194

### Description

Aluminum relay rack, 19" W x 84" H, #12-24 tapped hole black



# BELDEN RACKS

DESCRIPTION		WALL MOUNT RACK – SWING OUT
Anixter Part No.	Belden Part No.	
XWR-3619-12	XWR-3619-12	36" H x 19.75" W x 12" D
XWR-4819-12	XWR-4819-12	48" H x 19.75" W x 12" D
XWR-1219	XWR-1219	Adjustable 19" swing-out rack with bottom shelf 19" mounting vertical adjustment from 12.75" H minimum to 21.75" H maximum

DESCRIPTION		CABLE MANAGEMENT RACK
Anixter Part No.	Belden Part No.	
XCR-8419	XCR-8419	84" H relay rack, with cable management
XDR-8419-10	XDR-8419-10	84" H relay rack, 10" deep channel with cable management

DESCRIPTION		DISTRIBUTION RACK (23" MOUNTING AVAILABLE FOR 84" AND 72" RACKS)
Anixter Part No.	Belden Part No.	
XDR-4819	XDR-4819	48" distribution rack 19" mounting
XDR-7219	XDR-7219	72" distribution rack 19" mounting
XDR-8419	XDR-8419	84" distribution rack 19" mounting

DESCRIPTION		SERVER RACKS
Anixter Part No.	Belden Part No.	
XDR-8419-310XX	XDR-8419-310XX	84" 4-post rack, 19" mounting, depth 24"-36"
XDR-8423-310XX	XDR-8423-310XX	84" 4-post rack, 23" mounting depth 24"-36"

Note: XX = rack depth: 24", 28", 32" or 36"

Table 1.0 shows maximum cable diameters for permissible conduit fill. Table 2.0 shows maximum allowable percent fill of electrical metallic tubing (EMT). For installation in other types of conduit or for installation of compact stranded conductors, refer to Tables C.1 through C.12 in Annex C of the 2005 NEC.

TABLE 1.0: MAXIMUM CABLE DIAMETERS FOR PERMISSIBLE CONDUIT FILL										
Nominal Conduit Size (in.)										
	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4
Actual ID of Conduit (in.)										
	0.622	0.824	1.049	1.380	1.610	2.067	2.731	3.356	3.834	4.334
NO. OF WIRES OR CABLES	MAX. DIAMETER OF WIRES OR CABLES IN CONDUIT (IN.)									
1	0.453	0.600	0.764	1.005	1.172	1.505	1.988	2.443	2.791	3.155
2	0.245	0.324	0.413	0.543	0.634	0.814	1.075	1.321	1.509	1.706
3	0.227	0.301	0.383	0.504	0.588	0.755	0.997	1.225	1.400	1.583
4	0.197	0.261	0.332	0.436	0.509	0.654	0.864	1.061	1.212	1.371
5	0.176	0.233	0.297	0.390	0.455	0.585	0.772	0.949	1.084	1.226
6	0.161	0.213	0.271	0.356	0.416	0.534	0.705	0.867	0.990	1.119
7	0.149	0.197	0.251	0.330	0.385	0.494	0.653	0.802	0.917	1.036
8	0.139	0.184	0.235	0.309	0.360	0.462	0.611	0.750	0.857	0.969
9	0.131	0.174	0.221	0.291	0.339	0.436	0.576	0.708	0.808	0.914
10	0.124	0.165	0.210	0.276	0.322	0.413	0.546	0.671	0.767	0.867
11	0.119	0.157	0.200	0.263	0.307	0.394	0.521	0.640	0.731	0.826
12	0.114	0.150	0.192	0.252	0.294	0.377	0.499	0.613	0.700	0.791
13	0.109	0.145	0.184	0.242	0.282	0.363	0.479	0.589	0.673	0.760
14	0.105	0.139	0.177	0.233	0.272	0.349	0.462	0.567	0.648	0.733
15	0.102	0.135	0.171	0.225	0.263	0.338	0.446	0.548	0.626	0.708

Source: National Electrical Code, Chapter 9, Table 1



## PERCENT FILL TABLE

Calculating conduit percent fill provides the ratio of the total wire area to the area available within the conduit. Table 2.0 refers to the National Electrical Code Conduit Percent Fill Table and associated equation.

**TABLE 2.0: DIMENSIONS AND MAXIMUM ALLOWABLE PERCENTAGE FILL OF ELECTRICAL METALLIC TUBING (EMT)**

Allowable Fill—Sq. In.					
Trade Size	Internal Diameter (In.)	Total Area (Sq. In.)	1 Conductor 53% Fill	2 Conductor 31% Fill	Over 2 Conductor 40% Fill
1/2	0.622	0.304	0.161	0.094	0.122
3/4	0.824	0.533	0.283	0.165	0.213
1	1.049	0.864	0.458	0.268	0.346
1 1/4	1.380	1.496	0.793	0.464	0.598
1 1/2	1.610	2.036	1.079	0.631	0.814
2	2.067	3.356	1.778	1.040	1.342
2 1/2	2.731	5.858	3.105	1.816	2.343
3	3.356	8.846	4.688	2.742	3.538
3 1/2	3.834	11.545	6.119	3.579	4.618
4	4.334	14.753	7.819	4.573	5.901

Source: National Electrical Code, Chapter 9, Table 4. For other conduit types, please refer to Table 4 in Chapter 9 of the NEC.

Area in Square Inches:  $\frac{\pi \times OD^2}{4} \times n$

Example: Pulling (3) JCI #CBL-18/2 ORG-PLN cables, each cable has an overall diameter of 0.158"

Using the formula, solve as follows:

$$\frac{3.14 \times (0.158)^2}{4} \times 3 = .05879 \text{ square inches}$$

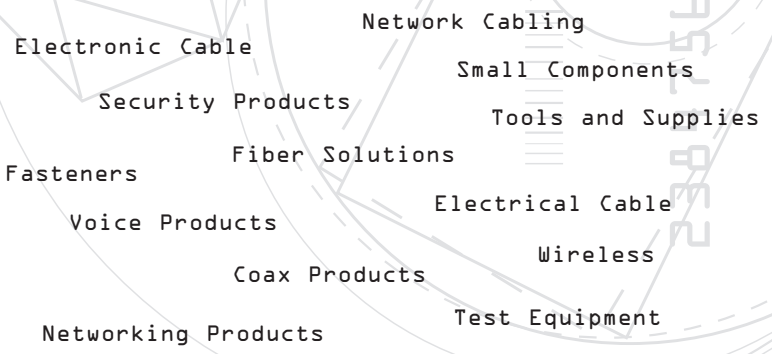
Referring to the table, the minimum conduit size would be 1/2 inch.



We're proud to serve more than 95,000 customers across 46 countries every day with our world-class inventory, global capabilities, technical expertise and Supply Chain Services. Our three specialized sales forces focus on enterprise cabling and security solutions, wire and cable and fasteners.

- We stock more than 350,000 items from the world's premier manufacturers and move them cost effectively through our global distribution network that encompasses more than 5.5 million square feet of distribution space.
- We view technical know-how as an essential part of our value to our customer. Whether you're dealing with our Enterprise Cabling & Security Solutions, Wire & Cable, or Fastener division, you can count on Anixter for reliable, up-to-date technical advice and assistance.
- With a wide variety of Supply Chain Services to choose from, we provide our customers the opportunity to save money by increasing their ability to be efficient and to avoid costly delays.

ANIXTER RESOURCES



## THE ANIXTER DIFFERENCE

### OUR GLOBAL CAPABILITIES

We are very proud of the quality products we distribute (more than 350,000 items from the best manufacturers in the industry), but the reason our customers count on us day in and day out isn't just about world-class, quality products. Our customers know they can count on Anixter to deliver consistent, superior service and support around the world. And when we say we're global, we mean it.

We don't just ship products from the U.S. to various countries. We stock inventory in each country and we are experts at moving inventory across borders efficiently and cost effectively. We're physically located in 46 countries around the globe and our sales specialists in-country are familiar with the trends and needs in the local market, as well as the local currency, standards and customs. We speak 30 different languages to serve our customers' diverse needs.

### OUR PRODUCTS

It seems simple enough: You need something, you call a distributor and buy it. Unfortunately, nothing is really that simple. In the real world, there are complicated systems, small parts and constantly changing technical developments and requirements. Just determining what you need can be an all-consuming process, one that is only aggravated by hard-to-find or out-of-stock items. Missing a crucial component can significantly add costs and delays to your projects.

At Anixter, we take the worry out of just-in-time product availability. We maintain more than \$900 million in our global inventory and the product expertise you need to make sure you get the right product, when and where you need it.

### ANIXTER IS THE DISTRIBUTOR TO CALL IF YOU NEED PRODUCTS AND SYSTEMS FOR:

- Network cabling (copper and fiber)
- Security (video surveillance, access control)
- Electrical wire and cable (power cable)
- Electronic wire and cable (coax, multipair, multiconductor cable, etc.)
- Networking, wireless and voice electronics
- Fasteners and other small components ("C" Class)



Across the world, we have more than 2,600 sales specialists who support our customers. We have three specialized sales forces that focus on enterprise cabling and security systems, electrical and electronic wire and cable, and fasteners. These sales specialists have years of experience in specifying products and solutions for customers. In every part of our business, we welcome the opportunity to support our customers' purchasing decisions by understanding their needs and requirements.

You can rely on our technical experts to keep you current on the latest products, applications, industry trends, standards and emerging technologies.

Here are just a few ways we have helped our customers with their technical purchasing decisions:

- The Dow Chemical Company looks to Anixter for technical expertise and support, and works with Anixter to develop updated and improved cable specifications. Dow worked with Anixter to develop cable specifications with moisture barriers for underground applications.

- Anixter's engineers assisted an IT manager at Capital One Bank in determining which network cabling system would be right for the company. We provided application testing that specified a solution that would better meet current and future bandwidth needs.
- Using our on-line, self-help tool called Anixter Fasteners Virtual Engineer, AGCO engineers are able to source a currently supplied product or a standard equivalent and can view material, finish, and engineering standards, downloads of 3D CAD models, and 2D drawings in PDF format. This engineering service helps AGCO to significantly reduce design and material costs while leveraging existing standard parts.



**ANIXTER**

## OUR INFRASTRUCTURE SOLUTIONS LAB

Anixter's Infrastructure Solutions Lab allows us to actively demonstrate the best practical technology solutions from best-in-class manufacturers in the area of enterprise cabling solutions, video security and access control systems for our customers. Our mission for the lab is simple—educate, demonstrate and evaluate.

- Educate customers on the latest industry standards, best practices and technologies.
- Demonstrate the latest infrastructure product solutions available from our manufacturer partners.
- Evaluate our network infrastructure and security solutions to ensure that our customers are selecting the right products for their specific needs.

We are continually testing products in our lab to ensure:

- Quality products are recommended and delivered to our customers.
- Consistency of performance across product lines and within systems.
- Interoperability of products and systems to ensure customers can integrate systems and follow the trend toward convergence.

# THE LAB

ANIXTER'S INFRASTRUCTURE SOLUTIONS LAB

Networking and security product testing at our lab includes:

- Random performance testing of Anixter inventory to ensure quality of standards compliance
- Network throughput and interoperability testing
- Copper and fiber cabling compliance verification (TIA/EIA, ISO/IEC, IEEE)
- Customer proof of concept
- Power over Ethernet (PoE) capability and verification
- Application testing
- 10 Gigabit Ethernet cabling testing
- Video over IP, video quality and bandwidth utilization
- Digital compression image quality vs. analog technology testing
- Evaluation of analog and IP cameras, video management software evaluation, DVR, NDVR and NVR products





Anixter relies on a core distribution network to provide product inventory, coordinated deliveries and Supply Chain Services for technology deployments. Our fundamental distribution capabilities include:

- A significant investment in a diverse breadth of inventory
- The ability to view and allocate inventory in any warehouse throughout a nationwide network
- IT systems that provide customers real-time information
- Predictable (e.g. next-day ground service) delivery times to help you plan your projects
- Scalable processes to be able to allocate resources as your needs evolve

Anixter takes fundamental distribution a step further by applying the "best practices" of supply chain principles to our industry.

We focus on the process side of a project to identify material management practices that reduce the total cost of deployment.

You can count on Anixter for our products, technical expertise, global distribution network and Supply Chain Services. We'll get you the products you need, when and how you need them.



## OUR SUPPLY CHAIN SERVICES

Effective supply chain management begins with a thorough understanding of the deployment process and the business drivers that affect it. Anixter's global distribution network and supply chain expertise allow us to efficiently manage materials for technology deployment and to address each business need. The end result: significant savings and efficiency improvement for a lower total cost of deployment.

Anixter can customize a solution to fit your needs. We want to work with you on your technology deployments to leverage our core competencies and help you understand technologies (existing and emerging), product and system solutions and the best process for deployment.



The Anixter baseline model above includes six key components of the total cost of deployment that a supply chain partner should address when building an effective solution. To scale to the program's demands, the solution needs to address the process as a whole, not just the individual components of the model.

READY!™ Deployment Services by Anixter maps our distribution and Supply Chain Services to the construction or deployment process of any technology project. We combine sourcing, inventory management, kitting, labeling, packaging and deployment services to simplify and address the material management challenges at the job site(s). READY! Deployment Services by Anixter will help you improve the speed to deployment, lower your total cost of deployment and ensure the product specifications are delivered as planned.



Sourcing

Logistics

Inventory  
Management

Product  
Enhancement  
& Packaging

Deployment

eBusiness Solutions

## Sourcing

- Standardizing products
- Coordinating multiple product specifications
- Centralizing sourcing and procurement
- e-procurement

## Logistics

- Lead time management
- Inbound freight and transit time management

## Inventory Management

- Quality programs and measurements
- Visual replenishment programs
- Customer and project specific catalogs
- Web-based, real-time inventory visibility

## Deployment

- Manage whole-order delivery
- Single-site deployments and multi-site rollouts
- Real-time planning, order tracking and proof-of-delivery
- Coordination with global carriers
- Integrate with carriers' tracking systems to provide in-transit visibility
- Import and export document preparation and coordination
- Just-in-Time delivery and replenishment programs
- Coordinate "Last Mile" delivery services (cranes, liftgates and other services to address constraints created by restricted delivery requirements)
- READY!<sup>SM</sup> Deployment Services

Continued on next page >>

**ANIXER**

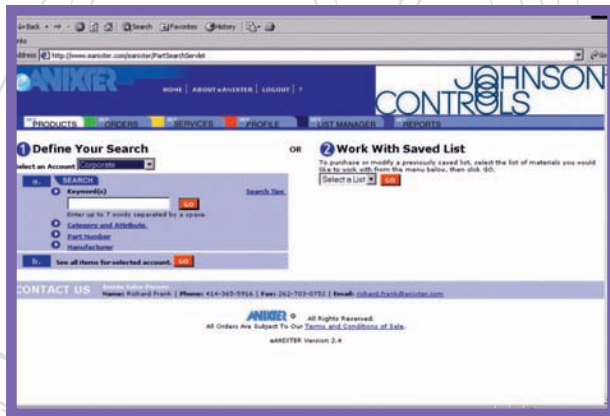
## OUR SUPPLY CHAIN SERVICES

### Product Enhancement and Packaging

- Pre-assembly
- Kitting
- Color-coded, bar-coded and customized labels
- Packaging services
- Cutting cable, stripping, tinning and pulling eyes
- Custom tube, cable and jacket printing
- SpeedPull® (the bundling of multiple conductors and flexible cable to reduce setup time and labor associated with cable pulls)
- Paralleling (spooling of up to five cables to reduce cable pulls)
- Installation-related material kits (customized kits with the material and documentation needed for installation)

### eBusiness Solutions

- Web-based supply chain visibility solution, eAnixter
- Electronic ordering and invoicing
- Business-to-business systems integration
- Rapid Fire, a Palm™-based inventory replenishment and control system for storerooms
- Custom performance reporting





Anixter's SpeedPull® service is a unique process that eliminates time spent on setting up reels and provides numbered wires and cables for easy identification—saving you time and money on design and installation.

Anixter's SpeedPull service bundles together several types of cable in one assembly for easy and trouble-free installation in duct, conduit or other recognized raceway. This type of construction can greatly reduce the number of “pulls” necessary in an installation.



Regardless of what you are installing or where you want it installed, Anixter's SpeedPull provides a unique solution for many common installation and identification needs.



# ELECTRICAL/ELECTRONIC WIRE & CABLE SOLUTIONS

## Automotive Wire

---

GXL, SXL, TXL, SGX, TWP, GPT, SGT

## Armored Cable

---

AC drive cables

Armored cable, aluminum and steel interlocked

CCW

NORTECK

Type MC

UL/CSA TECK90

## Bare and Weatherproof Wire

---

### Broadcast

---

Cable

Connectors

Heliax

Patch bays

Racks and accessories

Tools and wire management

### Building Wire

---

THHN, TW, THW, XLP-USE, TF, TFF, TFFN and XHHW-2, SIS

### Cable Assemblies

---

Electronic cables

Fiber optic assemblies

Power cord sets

Retractable cords

Telecom

## Coaxial Cable

---

Broadcast

CCTV

Coaxial, twinaxial and triaxial

Commercial and broadband

Heliax

MIL-Spec (QPL)

Miniature

Telecom

## Connectors

---

Audio, multipin, triax, video

Power

RF/Coax

Semi-ridged

Terminals and lugs

## Control Cable

---

20/10 control

EPR/HYP

FREP/CPE

Shielded VNTC

Small-diameter SDN and NVN

Traffic signal

Tray cable

VNTC tray cable

XLP/HYP

XLP-PVC flame-resistant

## Electronic and Communications Cable

Multiconductor  
Multipair  
Plenum/nonplenum  
Shielded and unshielded/coaxial  
Single and multiconductor

## Factory Floor Solutions

Cable  
Power supplies  
Quick connects  
Sensors

## Festoon and Reeling Cable

Fiber  
Flat  
Round  
Shielded

## Fiber Optic Cable

Connectors  
Panels, LIUs and adapters  
Splice kits  
Shipboard cable MIL-C-85045, thermoset and thermoplastic

## Fire Alarm/Security Cable

CI/CIC  
Coax  
Low cap or mid cap  
Shielded or unshielded  
Solid or stranded  
Plenum or nonplenum

## Flat Cable

### Flat Cable and Connectors

Intermittently twisted and custom constructions

### High Temperature Cable

SRGK  
SRML  
Tempergard 2000  
TGGT  
MGT

### Hook-Up and Lead Wire

CSA-certified  
European approvals  
MIL-Spec  
UL styles

### Identification

### Innerduct

### Instrumentation

Armored and direct burial  
Fiber optic (IEEE)  
High-temperature Teflon®  
Industrial automation cables  
ITC  
Power limited tray cable (PLTC)  
PVC, thermoset and plenum types  
UL Listed

### Jumper Cable

Flexible lead 5 to 15 kV



## Military Wire and Cable

Coax cable/heliox  
Fiber optics  
Hook-up wire  
Shipboard cables

## Plenum Cable

Fire alarm cable: NEC article 760, NYC LL5  
Power limited circuit cable and coaxial cable: NEC article 725

## Portable Cord and Mining Cable

Diesel locomotive cable  
Mining cable types W, G, G-GC, MPF and SHD-GC  
Types SOOW, SJOOW, SE00W, SJT, STO, ST and shielded constructions  
Welding cable

## Power Cable

600 V through 35 kV, EPR and XLP insulated  
EPR/CPE  
EPR/HYP  
EVA/LSZH  
RHH/RHW  
Telecom  
VNTC  
XGP/HYP

## Robotics and Flexible Automation

### Shipboard Cable

Commercial cable  
Type UL marine  
Fiber optic (MIL-C-85045)  
Fiber optic termination and splice kits  
Heliox  
IEEE-45 including low smoke constructions  
Low smoke, zero halogen Ethernet cables  
MIL-C-17 coaxial cable types  
MIL-C-915  
MIL-C-24640 lightweight  
MIL-C-24643, low smoke

### Security

Access control  
CCTV cables, connectors and cameras  
Fire alarm  
Intrusion detection  
Security consoles and racks  
Sound  
Video surveillance

### Telecom

Central office  
Cross-connect equipment  
DC power cable  
Fiber  
Outside plant  
Racks, frames and cabinets



## Termination and Splice Products

---

5-15 kV indoor and outdoor kits

Cold shrink

Heat shrink

Lugs

## Thermocouple Wire

---

E, J, K, T and R

EX, JX, KX, TX and RX

Thermocouple extension grade

Thermocouple grade

## Wire Protection

---

Braided expandable sleeving

Corrugated loom tubing

Polyolefin, PVC, Teflon and Kynar® shrink tubing

PVC and Teflon, sleeving, end caps and heat shrink tape

Spiral wrap



## ELECTRICAL/ELECTRONIC WIRE & CABLE ACCESSORIES MANUFACTURERS

Let Anixter help you select accessories to complete your electrical/electronic wire and cable installations. Among our accessories are heat shrink and non-heat shrink tubing, sleeving, shielded braid, cable ties, wire mounts, terminals, lugs and splices and connector rings.

### Electrical Cable Tray

Cooper B-Line  
MP Husky  
PW Industries

### Basket Cable Tray

Cablofil  
Cooper B-Line  
GS Metals (Flextray)

### Electric Enclosures

Cooper B-Line  
Hoffman

### Cable Management and Hooks

Cooper B-Line  
Erico (Caddy)  
PANDUIT

### Raceway and Duct

ADC  
PANDUIT  
Wiremold

### Lugs

FCI/Burndy  
PANDUIT  
Thomas & Betts (T&B)

### Coax Connectors

Amphenol  
Corning Gilbert  
Thomas & Betts (T&B)  
Trompeter Electronics  
Tyco Electronics/AMP NETCONNECT

### Armored Cable Connectors

American Connectors-Per Fit  
CMP America

### Cord Grips, Cord Sets and Connectors

Cooper Crouse-Hinds  
Remke  
Thomas & Betts (T&B)  
Woodhead Industries

### Metal Clad Fittings and Boxes

Arlington Industries  
Cooper Crouse-Hinds  
Thomas & Betts (T&B)

### Terminations

3M Electric  
Tyco Electronics/Raychem

### Grounding

FCI/Burndy  
PANDUIT

### Cable Identification

Brady Corporation  
PANDUIT

### Tubing and Heat Shrink

Alpha  
Drossbach  
PANDUIT

**NETWORK CABLING PRODUCTS**

**High-Performance Cabling Systems (Copper and Fiber)**

ADC  
 Belden  
 Berk-Tek/Ortronics  
 CommScope - SYSTIMAX® Solutions  
 CommScope - Uniprise® Solutions  
 Corning Cable Systems  
 PANDUIT

**Racks, Frames, Cabinets and Accessories**

American Power Conversion (APC)  
 Belden  
 Chatsworth Products, Inc. (CPI)  
 Cooper B-Line  
 Great Lakes  
 Middle Atlantic  
 Ortronics  
 PANDUIT  
 Rittal

**Cable Management**

Chatsworth Products, Inc. (CPI)  
 CommScope - SYSTIMAX® Solutions  
 Cooper B-Line  
 Erico (Caddy)  
 PANDUIT

**Intelligent Infrastructure Management**

ADC  
 Belden  
 CommScope - SYSTIMAX® Solutions  
 Ortronics  
 PANDUIT

**Network Furniture**

Great Lakes  
 Middle Atlantic

**Cable Runway and Raceway**

Cablofil  
 Chatsworth Products, Inc. (CPI)  
 Cooper B-Line  
 Erico (Caddy)  
 GS Metals (Flextray)  
 PANDUIT  
 Wiremold

**Innerduct and Conduit**

Carlou/Pyramid  
 MaxCell Innerduct

**Computer Room Air Conditioning (CRAC)**

American Power Conversion (APC)  
 Liebert  
 Rittal

**Power Distribution Units (PDU)**

American Power Conversion (APC)  
 Chatsworth Products, Inc. (CPI)  
 Geist  
 ITW Linx  
 Liebert  
 Server Technology

**AC Power and Data Line Protection**

American Power Conversion (APC)  
 Chatsworth Products, Inc. (CPI)  
 Eaton/Powerware  
 Geist  
 ITW Linx  
 Liebert  
 Minuteman UPS  
 Tripp Lite  
 Wiremold



# ENTERPRISE CABLING SOLUTIONS

## Power Strips, Power Poles and Accessories

American Power Conversion (APC)

Chatsworth Products, Inc. (CPI)

Geist

PANDUIT

Wiremold

## Fire Stop

3M

Specified Technologies Inc. (STI)

## Zone Cabling

Corning Cable Systems

PANDUIT

## Grounding and Bonding

Chatsworth Products, Inc. (CPI)

Erico

PANDUIT

## Test Equipment

3M

Agilent Technologies

Corning Cable Systems

Fluke Industrial

Fluke Networks

Greenlee Tempo

## Tools

Greenlee Tempo

Fluke Networks

Klein Tools

## Building Entrance Protection

Circa

CommScope - Carrier Solutions

Emerson Network Power

ITW Linx

Ortronics

Porta Systems

## Ancillary Products and Supplies (Cable Ties, J-Hooks/Clips, Labels, etc.)

3M

Cooper B-Line

Erico (Caddy)

PANDUIT

## Outside Plant

3M

Carlson/Pyramid

Circa

CommScope - Carrier Solutions

CommScope - SYSTIMAX® Solutions

Corning Cable Systems

Emerson Network Power

MaxCell Innerduct

Preformed Line Products (PLP)

Tyco Electronics/AMP NETCONNECT

## Network and Environmental Monitoring

American Power Conversion (APC)

Chatsworth Products, Inc. (CPI)

Geist

Rittal

NETWORKING AND WIRELESS PRODUCTS

Switches and Routers

- 3Com
- Adtran
- Allied Telesis
- Cisco Systems
- Transition Networks

KVM Solutions

- Avocent
- Lantronix
- Raritan

Console Management Solutions

- Avocent
- Lantronix
- Raritan

Transmission and Access

- Adtran
- Carrier Access
- Kentrox

Media Converters

- Allied Telesis
- Transition Networks

Transceivers

- Allied Telesis
- Transition Networks

Power over Ethernet

- 3Com
- ADC
- Allied Telesis
- Belden
- CommScope - SYSTIMAX® Solutions
- Ortronics
- PANDUIT
- PowerDsine

GBICs

- Cisco Systems
- Transition Networks

VOICE PRODUCTS

Headsets

- GN Netcom
- Plantronics

Telephones (Analog, Wireless and Conference)

- Aastra
- Cortelco
- Panasonic
- Polycom
- Spectralink
- Telematrix
- Vtech Communications



## SECURITY SOLUTIONS

Security products include CCTV, access control, fire/life/safety, burglary and sound. These products originated as ways to prevent theft, control fire and run paging systems. These products are utilized in marketing, traffic control, healthcare, education and many other areas. Among the products we offer are:

### VIDEO SURVEILLANCE

#### Analog Cameras

---

American Dynamics  
Bosch Security Systems  
CBC America  
Extreme CCTV  
GE Security  
JVC  
Panasonic Security  
Pelco  
Samsung (GVI Samsung)

Sony  
Speco Technologies  
Toshiba

#### IP Cameras

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AXIS Communications  
Bosch Security Systems  
GE Security  
IQinVision  
Mobotix  
Panasonic Security  
Sony  
Toshiba

#### Digital Video Recorders

---

American Dynamics  
Bosch Security Systems  
Dedicated Micros  
GE Security  
Integral Technologies  
NICE Systems  
Panasonic Security  
Pelco  
Toshiba

#### Video Management Software

---

Bosch Security Systems  
D3 Data  
Genetec  
Integral Technologies  
Milestone  
NICE Systems  
Object Video  
OnSSI  
Panasonic Security  
Sony

#### Specialty Applications

---

Flir — Thermal imaging  
RMS Technology Solutions - Portable Surveillance Systems  
SPS Energy — Solar panels

Network/Environmental Monitoring Systems

American Fibertek  
 American Power Conversion (APC)  
 CPI

Camera Mounts and Enclosures

Aigis Mechatronics  
 AXIS Communications  
 Bosch Security Systems  
 GE Security  
 Panasonic Security  
 Pelco  
 Sony  
 Videolarm  
 Videotec

Lenses

Bosch Security Systems  
 CBC America  
 Fujinon  
 GE Security  
 Pelco  
 Pentax  
 Rainbow  
 Tamron

Monitors

Aigis Mechatronics  
 Bosch Security Systems  
 GE Security  
 Orion  
 Panasonic Security  
 Pelco  
 Sony  
 Tattung  
 ToteVision  
 Vernex

Transformers/Power Supplies

Altronix  
 Bosch Security Systems  
 Pelco

Surge Protection

Ditek  
 ITW Linx

Fiber Transmission Systems

American Fibertek  
 GE Security  
 International Fiber Systems (IFS)

Wireless Transmission Systems

Firetide  
 Microtek Electronics  
 Verint Video Solutions



## SECURITY SOLUTIONS

### Video Baluns

---

Energy Transformation Systems (ETS)

MuxLab

NVT

### Racks, Cabinets and Security Consoles

---

Middle Atlantic

Winsted

### CATV

---

Blonder Tongue

### CCTV Cables and Accessories

---

Belden

Coleman Cable

CommScope - Uniprise® Solutions

Communication Specialties, Inc.

Kramer Electronics

Tappan Wire & Cable

West Penn

### Fiber Optic Cables

---

Corning Cable Systems

## ACCESS CONTROL

### Control Panels

---

Bosch Security Systems

Genetec

GE Security

Integral Technologies

Keri Systems

S2 Security Corporation

### Motion Detectors

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Bosch Security Systems

GE Security

### Contacts

---

Bosch Security Systems

GE Security

### Strikes, Locks and Request to Exit (REX)

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Bosch Security Systems

GE Security

HES/Folger Adam

Schlage Electronics/Von Duprin

Schlage Electronics/Locknetics

Securitron

Security Door Controls (SDC)

### Cards and Readers

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Bosch Security Systems

HID Global



**Specialty Applications**

---

Easy Lobby - Visitor Management Software

Fargo Electronics - Badge Printers

Fiber SenSys – Fiber Perimeter Control

**Biometrics**

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BioScript

Panasonic Security

Schlage Recognition Systems

**Racks, Cabinets and Security Consoles**

---

Middle Atlantic

Winsted

**Batteries**

---

Energysys

**Surge Suppression**

---

Ditek

ITW Linx

**Access Control Cables**

---

Belden

Coleman Cable

CommScope - Uniprise® Solutions

Tappan Wire & Cable

**SOUND****Speakers**

---

Atlas Sound

Bogen Communications

Speco Technologies

Quam

TOA

Valcom

**Amplifiers**

---

Bogen Communications

Speco Technologies

Paso

TOA

Valcom

**Intercom/Paging Systems**

---

Aiphone

Atlas Sound

Bogen Communications

TOA

Valcom

Viking Electronics

**Sound Masking**

---

Atlas Sound

Bogen Communications

TOA

Valcom



## SECURITY SOLUTIONS

### Microphones

---

Atlas Sound

Bogen Communications

Shure

### Emergency Phones

---

GAI-Tronics

Talk-A-Phone

Viking Electronics

### Surge Suppression

---

Ditek

ITW Linx

### Sound Cables

---

Belden

Coleman Cable

CommScope - Uniprise® Solutions

Tappan Wire & Cable

West Penn

### LOW VOLTAGE

### Cables

---

Belden

Coleman Cable - Uniprise® Solutions

CommScope

Tappan Wire & Cable

West Penn

### Connectors

---

Amphenol

Cambridge

Kings

Tyco Electronics/AMP NETCONNECT

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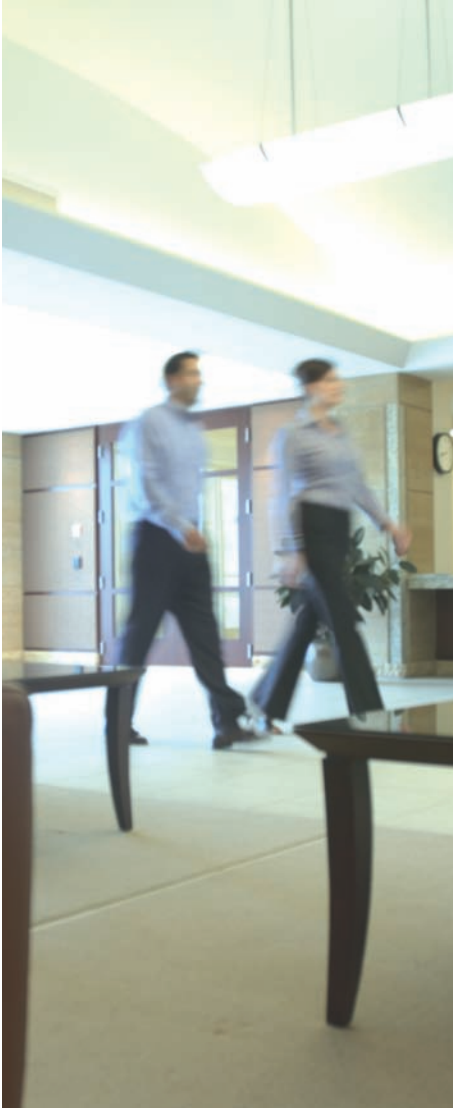
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