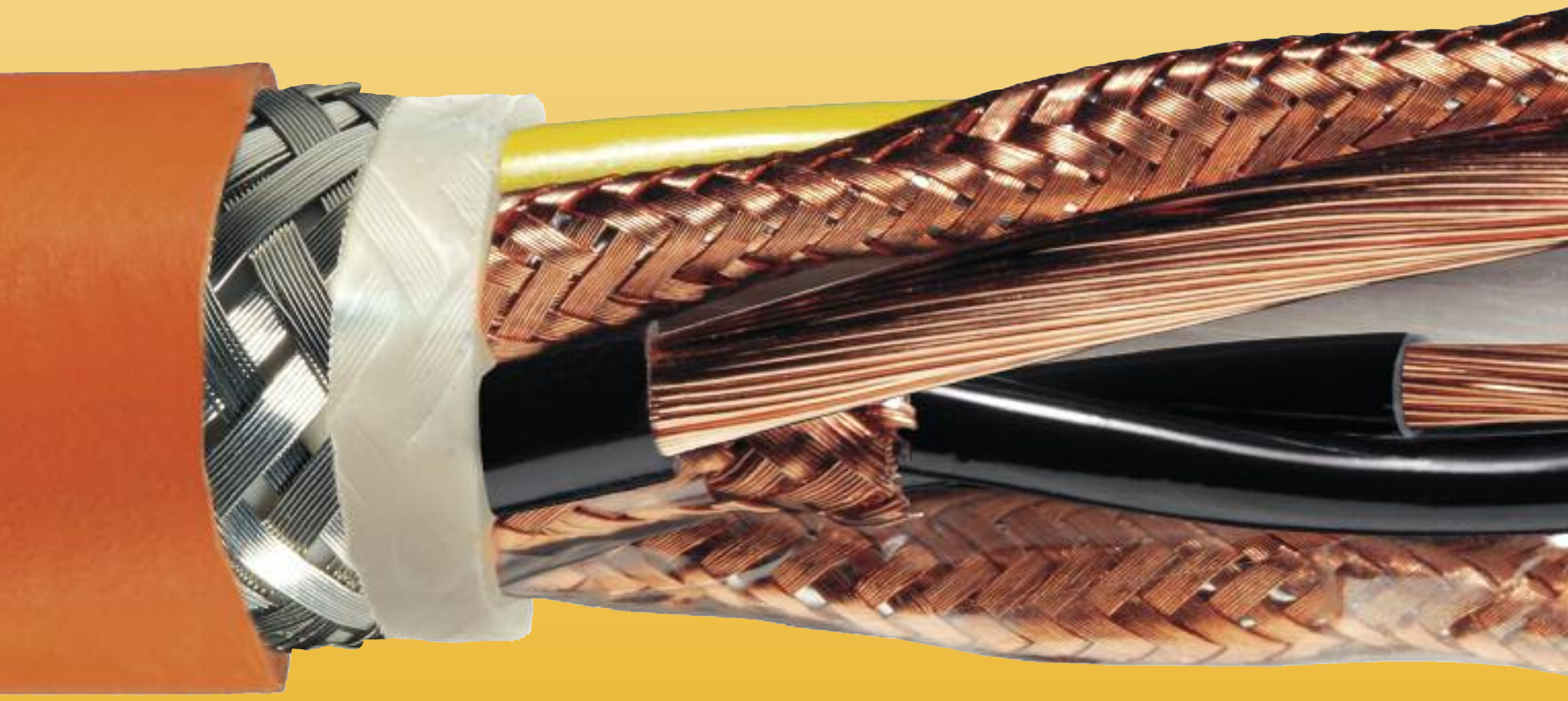
# Servo Cables



# Servo Cable Selection

| Chainflex® cable | Jacket | Shield | Class | Bending radius moving (factor x d) | Temperature moving from/to °F (°C) | Oil-resistant | *V* max. ft/s (m/s) unsupported | *V* max. ft/s (m/s) gliding | *a* max. ft/s² (m/s²) | Approvals and standards |
|---|---|---|---|---|---|---|---|---|---|---|
| **Servo cables** | | | | | | | | | | |
| CF210 | PVC | ✔ | 4.1.2 | 10 | +23/+158°F (-5/ +70°C) | ✔ | 32.81 ft/s (10 m/s) | | 164.0 ft/s² (50 m/s²) | CE |
| CF21 | PVC | ✔ | 5.3.2 | 7.5 | +23/+158°F (-5/ +70°C) | ✔ | 32.81 ft/s (10 m/s) | 16.41 ft/s (5 m/s) | 262.4 ft/s² (80 m/s²) | CE |
| CF270 | PUR | ✔ | 4.1.3 | 10 | -4/+176°F (-20/ +80°C) | ✔ | 32.81 ft/s (10 m/s) | | 164.0 ft/s² (50 m/s²) | CE |
| CF27 | PUR | ✔ | 6.3.3 | 7.5 | -4/+176°F (-20/ +80°C) | ✔ | 32.81 ft/s (10 m/s) | 16.41 ft/s (5 m/s) | 262.4 ft/s² (80 m/s²) | CE |

CF210

CLASS 4.1.2

Price Index

# PVC Servo Cable

## Chainflex® CF210

## PVC Energy Chain® cable, shielded, oil-resistant, flame-resistant


**Conductor**
Highly flexible special conductor

**Pair shield**
Extremely highly flexible braided copper shield

**Core**
Power conductors with signal pair elements stranded around high tensile center core

**Overall shield**
Highly flexible braided copper shield

**Outer jacket**
Pressure extruded, oil-proof PVC blend

10x

Oil

Clean-Room

10.134

## Construction

**Power conductor:** Finely stranded bare copper wires according to EN 60228
**Conductor insulation:** Mechanically high quality PE blend
**Signal pair insulation:** Mechanically high quality PE
**Conductor twisting:** Power conductors with signal pairs twisted with short pitch around high tensile center core
**Power conductor color/numbering:** Black with white numbers, one conductor green-yellow.
1. U / L1 / C / L+
2. V / L2
3. W / L3 / D / L-
4. green / yellow

**Conductor identification 1 signal pair:** black with white numerals
1. #4
2. #5

**Conductor identification 2 signal pairs:** black with white numerals
1. #5
2. #6
3. #7
4. #8

**Signal pair shield:** Tinned copper braid, 80% optical coverage, over aluminum/polyester film.
**Outer shielding:** Tinned copper braid, 80% optical coverage
**Outer jacket:** PVC-based, low-adhesion blend, adapted to the requirements of the Energy Chain®. Silicon-free in compliance with PV 3.10.7 - status 1992. **Color:** Orange (RAL 2003).

## Technical Data

**Minimum bending radius, moving:** 10 x outer cable diameter
**Minimum bending radius, fixed:** 5 x outer cable diameter
**Permissible temperature, moving:** +23°F to +158°F (-5°C to +70°C)
**Permissible temperature, fixed:** -4°F to +158°F (-20°C to +70°C)
**Voltage:** 1000V
**Testing Voltage:** 4000V
**Oil resistance:** Medium
**UV resistance:** Medium
**Regulations: RU AWM style** 2570 80°C 1000V, **CE**: **CEI** 20-20, **RoHS: 2002/95/EC;** Please reference the Design Section (Chapter 1) for more information.
**Cleanroom:** According to ISO class 2. Tested by IPA according to standard 14644-1. Test cable Cf5-10-07

## Typical Applications

- for medium mechanical load requirements
- preferably indoor applications, outdoor is acceptable for temperatures greater than +41°F (+5°C)
- especially for unsupported travel distances
- Wood/stone processing, packaging industry, supply system, handling, adjusting equipment

# PVC Servo Cable

## Chainflex® CF210

### PVC Energy Chain® cable, shielded, oil-resistant, flame-resistant

Price Index

| Part No. | Power AWG | Signal AWG | No. of Conductors and Rated Cross-Section in mm² | Outer Diameter (approx.) in. | (mm) | Copper Index lbs/mft | (kg/km) | Weight lbs/mft | (kg/km) |
|---|---|---|---|---|---|---|---|---|---|
| **1 Control Pair Shielded** | | | | | | | | | |
| **CF210-UL-15-15-02-01** | 16 | | 4 C x 1.5 | | | | | | |
| | | 16 | 1 STP x 1.5 | .47 | (12) | 101.4 | (149) | 170.1 | (250) |
| **CF210-UL-25-15-02-01** | 14 | | 4 C x 2.5 | | | | | | |
| | | 16 | 1 STP x 1.5 | .53 | (13.5) | 138.1 | (203) | 217.7 | (320) |
| **CF210-UL-40-15-02-01** | 12 | | 4 C X 4.0 | | | | | | |
| | | 16 | 1 STP X 1.5 | .59 | (15) | 185.0 | (272) | 280.2 | (412) |
| **2 Control Pairs Shielded** | | | | | | | | | |
| **CF210-UL-15-07-02-02** | 16 | | 4C x 1.5 | | | | | | |
| | | 18 | 2 STP x 0.75 | .53 | (13.5) | 115.0 | (169) | 197.3 | (290) |
| **CF210-UL-25-15-02-02** | 14 | | 4 C x 2.5 | | | | | | |
| | | 16 | 2 STP x 1.5 | .61 | (15.5) | 176.9 | (260) | 228.0 | (408) |
| **CF210-UL-40-15-02-02** | 12 | | 4 C x 4.0 | | | | | | |
| | | 16 | 2 STP x 1.5 | .67 | (17.0) | 224.5 | (330) | 344.2 | (506) |

**STP = Individually shielded pair**
**C = Single Conductor**
**NOTE:** The mentioned external diameters are maximum values.

No Minimum Order • No Cut Charges on up to 10 cuts of the same part number

CF21

CLASS 5.3.2

Price Index

# PVC Servo Cable

## Chainflex® CF21

**PVC Energy Chain® cable, shielded, oil-resistant, flame-resistant**


**Conductor**
Highly flexible special conductor

**Core**
Power conductors with signal pair elements stranded around high tensile center core

**Pair shield**
Extremely highly flexible braided copper shield

**Inner jacket**
gusset filled, pressure extruded

**Overall shield**
Highly flexible braided copper shield

**Outer jacket**
Pressure extruded, oil-proof PVC blend

## Construction

**Power conductor:** Finely stranded bare copper wires according to EN 60228
**Conductor insulation:** Mechanically high quality TPE blend
**Signal pair insulation:** TPE, thin-walled version
**Conductor twisting:** Power conductors with signal pairs twisted with short pitch around high tensile center core
**Power conductor color/numbering:** Black with white numbers, one conductor green-yellow.
1. U / L1 / C / L+
2. V / L2
3. W / L3 / D / L-
4. green / yellow

**Conductor identification 1 signal pair:** black with white numerals
1. #4
2. #5

**Conductor identification 2 signal pairs:** black with white numerals
1. #5
2. #6
3. #7
4. #8

**Signal pair shield:** Tinned copper braid, 90% optical coverage, over aluminum/polyester film.
**Intermediate jacket:** PVC-based blend, adapted to the requirements of the Energy Chain®.
**Outer shielding:** Tinned copper braid, 90% optical coverage
**Outer jacket:** PVC-based, low-adhesion blend, adapted to the requirements of the Energy Chain®. Silicon-free in compliance with PV 3.10.7 - status 1992. **Color:** green (RAL 6005).

## Technical Data

**Minimum bending radius, moving:** 7.5 x outer cable diameter
**Minimum bending radius, fixed:** 4 x outer cable diameter
**Permissible temperature, moving:** +23°F to +158°F (-5°C to +70°C)
**Permissible temperature, fixed:** -4°F to +158°F (-20°C to +70°C)
**Voltage:** 1000V
**Testing Voltage:** 4000V
**Oil resistance:** Medium
**UV resistance:** Medium
**Regulations: cRUus: UL AWM** style for USA & Canada: 2570 80°C 1000V, **Flame Resistance:** FT1, **CE**: **CEI** 20-20, **RoHS: 2002/95/EC;** Please reference the Design Section (Chapter 1) for more information.
**Cleanroom:** According to ISO class 2. Tested by IPA according to standard 14644-1. Test cable Cf5-10-07

## Typical Applications

- for high mechanical load requirements
- preferably indoor applications, outdoor is acceptable for temperatures greater than +41°F (+5°C)
- designed for AC motors with variable frequency drive (VFD)
- especially for unsupported travel distances and gliding travel up to 328 ft (100m)
- storage and retrieval units for high-bay warehouses, machining tools, packaging machines, quick handling, indoor cranes

7.5x

Oil

Clean-Room

10.136

No Minimum Order • No Cut Charges on up to 10 cuts of the same part number

# PVC Servo Cable

## Chainflex® CF21

### PVC Energy Chain® cable, shielded, oil-resistant, flame-resistant

Price Index

| Part No. | Power AWG | Signal AWG | No. of Conductors and Rated Cross-Section in mm² | Outer Diameter (approx.) in. | (mm) | Copper Index lbs/mft | (kg/km) | Weight lbs/mft | (kg/km) |
|---|---|---|---|---|---|---|---|---|---|
| **1 Control Pair Shielded** | | | | | | | | | |
| CF21-07-05-02-01-UL | 18 | | 4 C x 0.75 | | | | | | |
| | | 20 | 1 STP x 0.5 | .43 | (11) | 64.6 | (95) | 117.0 | (172) |
| CF21-15-15-02-01-UL | 16 | | 4 C x 1.5 | | | | | | |
| | | 16 | 1 STP x 1.5 | .51 | (13) | 95.0 | (140) | 190.5 | (280) |
| CF21-25-15-02-01-UL | 14 | | 4 C x 2.5 | | | | | | |
| | | 16 | 1 STP x 1.5 | .55 | (14) | 123.8 | (182) | 212.2 | (312) |
| CF21-40-15-02-01-UL | 12 | | 4 C x 4.0 | | | | | | |
| | | 17 | 1 STP x 1.5 | .63 | (16) | 164.0 | (241) | 265.3 | (390) |
| CF21-100-15-02-01-UL | 8 | | 4 C x 10.0 | | | | | | |
| | | 16 | 1 STP x 1.5 | .89 | (22.5) | 367.4 | (540) | 629.3 | (925) |
| CF21-160-10-02-01-UL | 6 | | 4 C X 16.0 | | | | | | |
| | | 17 | 1 STP X 1.0 | .96 | (24.5) | 476.0 | (700) | 714.0 | (1050) |
| **2 Control Pairs Shielded** | | | | | | | | | |
| CF21-07-03-02-02-UL | 18 | | 4 C x 0.75 | | | | | | |
| | | 22 | 2 STP x 0.3 | .49 | (12.5) | 76.8 | (113) | 142.8 | (210) |
| CF21-10-07-02-02-UL | 17 | | 4 C x 1.0 | | | | | | |
| | | 18 | 2 STP x 0.75 | .53 | (13.5) | 99.3 | (146) | 180.9 | (266) |
| CF21-15-07-02-02-UL | 16 | | 4 C x 1.5 | | | | | | |
| | | 18 | 2 STP x 0.75 | .57 | (14.5) | 119.0 | (175) | 210.8 | (310) |
| CF21-25-15-02-02-UL | 14 | | 4 C x 2.5 | | | | | | |
| | | 16 | 2 STP x 1.5 | .67 | (17) | 180.2 | (265) | 251.6 | (370) |
| CF21-40-15-02-02-UL | 12 | | 4 C x 4.0 | | | | | | |
| | | 16 | 2 STP x 1.5 | .73 | (18.5) | 206.7 | (304) | 295.8 | (435) |
| CF21-60-15-02-02-UL | 10 | | 4 C x 6.0 | | | | | | |
| | | 16 | 2 STP x 1.5 | .81 | (20.5) | 270 | (397) | 474 | (697) |
| CF21-100-15-02-02-UL | 8 | | 4 C x 10.0 | | | | | | |
| | | 16 | 2 STP x 1.5 | .95 | (24) | 381 | (560) | 697 | (1025) |
| CF21-160-15-02-02-UL | 6 | | 4 C x 16.0 | | | | | | |
| | | 16 | 2 STP x 1.5 | 1.06 | (27) | 537.2 | (790) | 863.6 | (1270) |
| CF21-250-15-02-02-UL | 4 | | 4 C x 25.0 | | | | | | |
| | | 16 | 2 STP x 1.5 | 1.22 | (31) | 776 | (1140) | 1299 | (1910) |

**STP** = Individually shielded pair
**C** = Single Conductor
**NOTE:** The mentioned external diameters are maximum values.

No Minimum Order • No Cut Charges on up to 10 cuts of the same part number



Internet: http://www.igus.com
email: sales@igus.com
QuickSpec/RFQ: http://www.igus.com/quickspec

CF270

CLASS 4.1.3

Price Index

# PUR Servo Cable

## Chainflex® CF270

**PUR Energy Chain® cable, shielded, oil and coolant-resistant, cut-resistant, flame-retardant, hydrolysis-resistant, microbe-resistant, PVC-free/halogen-free**


**Conductor**
Highly flexible special conductor

**Pair shield**
Extremely highly flexible braided pair copper shield

**Core**
Power conductors with signal pair elements stranded around high-tensile strength core

**Overall shield**
Highly flexible braided copper shield

**Outer jacket**
Presure extruded, halogen-free PUR blend

10x

Oil

## Construction

**Power conductor:** Finely stranded bare copper wires according to EN 60228
**Conductor insulation:** Mechanically high quality PE blend
**Conductor twisting:** Power conductors with signal pairs twisted with short pitch around a high-tensile-strength center core.
**Power conductor color/numbering:** Black with white numbers, one conductor green-yellow.
1. U / L1 / C / L+
2. V / L2
3. W / L3 / D / L-
4. green / yellow

**Conductor identification 1 signal pair:** black with white numerals
1. #4
2. #5

**Conductor identification 2 signal pairs:** black with white numerals
1. #5
2. #6
3. #7
4. #8

**Signal pair shield:** Tinned copper braid, 80% optical coverage, over aluminum/polyester film.
**Overall shielding:** Tinned copper braid, 80% optical coverage. Aluminum/polyester film located under braided shield
**Outer jacket** Low-adhesion PUR blend, adapted to the requirements of the Energy Chain®. Silicon-free in compliance with PV 3.10.7 - status 1992. **Color:** orange (RAL 2003).

## Technical Data

**Minimum bending radius, moving:** 10 x outer cable diameter
**Minimum bending radius, fixed:** 5 x outer cable diameter
**Permissible temperature, moving:** -4°F to +176°F (-20°C to +80°C)
**Permissible temperature, fixed:** -40°F to +176°F (-40°C to +80°C)
**Voltage:** 1000V
**Testing voltage:** 4000V
**Oil resistance:** High
**UV resistance:** Medium
**Regulations: cRUus:** UL AWM style for USA & Canada: 21223 80°C 1000V **Flame Resistance:** FT1, **DESINA**, **CE, RoHS: 2002/95/EC;** Please reference the Design Section (Chapter 1) for more information.
**Cleanroom:** According to ISO class 1. Tested by IPA according to standard 14644-1.

## Typical Applications

- for medium mechanical load requirements
- indoor and outdoor applications, no direct sunlight
- especially for unsupported travel distances
- machine tools, quick handling, cleanroom, low temperature applications

Clean-Room

10.138

No Minimum Order • No Cut Charges on up to 10 cuts of the same part number

# PUR Servo Cable

## Chainflex® CF270

**PUR Energy Chain® cable, shielded, oil and coolant-resistant, cut-resistant, flame-retardant, hydrolysis-resistant, microbe-resistant, PVC-free/halogen-free**

Price Index

| Part No. | Power AWG | Signal AWG | No. of Conductors and Rated Cross-Section in mm² | Outer Diameter (approx.) in. | (mm) | Copper Index lbs/mft | (kg/km) | Weight lbs/mft | (kg/km) |
|---|---|---|---|---|---|---|---|---|---|
| **1 Control Pair Shielded** | | | | | | | | | |
| CF270-UL-15-15-02-01-D | 16 | | 4 C x 1.5 | | | | | | |
| | | 16 | 1 STP x 1.5 | .47 | (12.0) | 101.4 | (149) | 167.3 | (246) |
| CF270-UL-25-15-02-01-D | 14 | | 4 C x 2.5 | | | | | | |
| | | 16 | 1 STP x 1.5 | .53 | (13.5) | 138.1 | (203) | 215.6 | (317) |
| CF270-UL-40-15-02-01-D | 12 | | 4 C x 4.0 | | | | | | |
| | | 16 | 1 STP x 1.5 | .59 | (15.0) | 185.0 | (272) | 277.6 | (408) |
| CF270-UL-100-15-02-01-D | 8 | | 4 C x 10.0 | | | | | | |
| | | 16 | 1 STP x 1.5 | .81 | (20.5) | 396.0 | (582) | 572.1 | (841) |
| CF270-UL-160-15-02-01-D | 6 | | 4 C x 16.0 | | | | | | |
| | | 16 | 1 STP x 1.5 | .94 | (24.0) | 581.6 | (855) | 833.3 | (1225) |
| **2 Control Pairs Shielded** | | | | | | | | | |
| CF270-UL-10-07-02-02-D | 17 | | 4 C x 1.0 | | | | | | |
| | | 18 | 2 STP x 0.75 | .51 | (13.0) | 97.3 | (143) | 170.8 | (251) |
| CF270-UL-15-07-02-02-D | 16 | | 4 C x 1.5 | | | | | | |
| | | 18 | 2 STP x 0.75 | .53 | (13.5) | 115.0 | (169) | 197.3 | (290) |
| CF270-UL-25-15-02-02-D | 14 | | 4 C x 2.5 | | | | | | |
| | | 16 | 2 STP x 1.5 | .61 | (15.5) | 176.9 | (260) | 277.6 | (408) |
| CF270-UL-40-15-02-02-D | 12 | | 4 C x 4.0 | | | | | | |
| | | 16 | 2 STP x 1.5 | .73 | (18.5) | 224.5 | (330) | 344.2 | (506) |
| CF270-UL-100-15-02-02-D | 8 | | 4 C x 10.0 | | | | | | |
| | | 16 | 2 STP x 1.5 | .87 | (22.0) | 429.9 | (632) | 639.5 | (940) |
| CF270-UL-250-15-02-02-D | 4 | | 4C x 25.0 | | | | | | |
| | | 16 | 2 STP x 1.5 | 1.10 | (28) | 928.6 | (1365) | 1256.5 | (1847) |
| **No Signal Pair** | | | | | | | | | |
| CF270-UL-15-04-D | 16 | | 4 C x 1.5 | .35 | (9.0) | 55.8 | (82) | 100 | (147) |
| CF270-UL-25-04-D | 14 | | 4 C x 2.5 | .43 | (11.0) | 95.9 | (141) | 152.4 | (224) |
| CF270-UL-40-04-D | 12 | | 4 C x 4.0 | .49 | (12.5) | 143.5 | (211) | 210.2 | (309) |
| CF270-UL-60-04-D | 10 | | 4 C x 6.0 | .57 | (14.5) | 208.2 | (306) | 295.2 | (434) |
| CF270-UL-100-04-D | 8 | | 4 C x 10.0 | .71 | (18.0) | 337.4 | (496) | 474.8 | (698) |
| CF270-UL-160-04-D | 6 | | 4 C x 16.0 | .85 | (21.5) | 532.0 | (782) | 715.6 | (1052) |
| CF270-UL-350-04-D | 2 | | 4 C x 35.0 | 1.30 | (33.0) | 1153.1 | (1695) | 15.0 | (2312) |

STP = Individually shielded pair
C = Single Conductor
**NOTE:** The mentioned external diameters are maximum values.

No Minimum Order • No Cut Charges on up to 10 cuts of the same part number

CF27

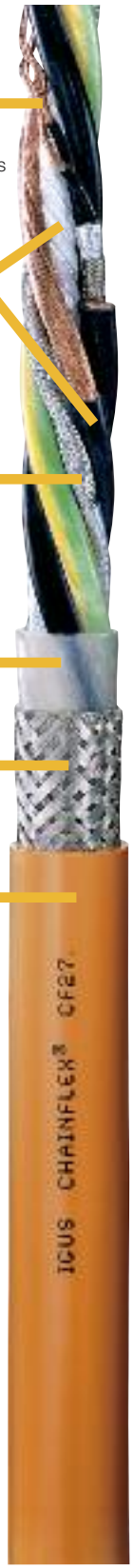
CLASS 6.3.3

Price Index

# PUR Servo Cable

## Chainflex® CF27

**PUR Energy Chain® cable, shielded, oil and coolant-resistant, cut-resistant, flame-retardant, hydrolysis-resistant, microbe-resistant, PVC-free/halogen-free**




**Conductor**
Highly flexible special conductor

**Core**
Power conductors with signal pair elements stranded around high-tensile strength core

**Pair shield**
Extremely highly flexible braided pair copper shield

**Inner jacket**
gusset filled, pressure extruded

**Overall shield**
Highly flexible braided copper shield

**Outer jacket**
Presure extruded, halogen-free PUR blend

## Construction

**Power conductor:** Finely stranded bare copper wires according to EN 60228
**Conductor insulation:** Mechanically high quality TPE blend
**Conductor twisting:** Power conductors with signal pairs twisted with short pitch around a high-tensile-strength center core.
**Power conductor color/numbering:** Black with white numbers, one conductor green-yellow.

1. U / L1 / C / L+ 2. V / L2 3. W / L3 / D / L- 4. green / yellow

**Conductor identification 1 signal pair:** black with white numerals

1. #4 2. #5

**Conductor identification 2 signal pairs:** black with white numerals

1. #5 2. #6 3. #7 4. #8

**Signal pair shield:** Tinned copper braid, 90% optical coverage, over aluminum/polyester film.
**Intermediate jacket:** TPE-based blend, adapted to the requirements of the Energy Chain®.
**Overall shielding:** Tinned copper braid, 90% optical coverage,
**Outer jacket** Low-adhesion PUR blend, adapted to the requirements of the Energy Chain®. Silicon-free in compliance with PV 3.10.7 - status 1992. **Color:** orange (RAL 2003).

## Technical Data

**Minimum bending radius, moving:** 7.5 x outer cable diameter
**Minimum bending radius, fixed:** 4 x outer cable diameter
**Permissible temperature, moving:** -4°F to +176°F (-20°C to +80°C)
**Permissible temperature, fixed:** -40°F to +176°F (-40°C to +80°C)
**Voltage:** 1000V
**Testing voltage:** 4000V
**Oil resistance:** High
**UV resistance:** Medium
**Regulations: cRUus:** UL AWM style for USA & Canada: 20234 80°C 1000V **Flame Resistance:** FT1, **DESINA**, **CE, RoHS: 2002/95/EC;** Please reference the Design Section (Chapter 1) for more information.
**Cleanroom:** According to ISO class 1. Tested by IPA according to standard 14644-1.

## Typical Applications

- for maximum mechanical load requirements
- indoor and outdoor applications, UV-resistant
- designed for AC motors with variable frequency drive (VFD)
- especially for unsupported travel distances and gliding travel up to 328 ft (100m)
- storage and retrieval units for high-bay warehouses, machine tools, quick handling, cleanroom, semiconductor insertion, outdoor cranes, low temperature applications

| Part No. | Power AWG | Signal AWG | No. of Conductors and Rated Cross-Section in mm² | Outer Diameter (approx.) in. | (mm) | Copper Index lbs/mft | (kg/km) | Weight lbs/mft | (kg/km) |
|---|---|---|---|---|---|---|---|---|---|
| **1 Control Pair Shielded** | | | | | | | | | |
| CF27-07-05-02-01-D | 18 | | 4 C x 0.75 | | | | | | |
| | | 20 | 1 STP x 0.5 | .45 | (11.5) | 64.6 | (95) | 116.3 | (171) |
| CF27-15-10-02-01-D | 16 | | 4 C x 1.5 | | | | | | |
| | | 17 | 1 STP x 1.0 | .49 | (12.5) | 92.5 | (136) | 149.6 | (220) |
| CF27-15-15-02-01-D | 16 | | 4C x .5 | | | | | | |
| | | 16 | 1 STP x 1.5 | .49 | (12.5) | 95.2 | (140) | 176.9 | (260) |
| CF27-25-10-02-01-D | 14 | | 4 C x 2.5 | | | | | | |
| | | 17 | 1 STP x 1.0 | .53 | (13.5) | 120.0 | (177) | 195.0 | (286) |
| CF27-25-15-02-01-D | 14 | | 4C x 2.5 | | | | | | |
| | | 16 | 1 STP x 1.5 | .55 | (14.0) | 123.8 | (182) | 204.1 | (300) |
| CF27-40-10-02-01-D | 12 | | 4 C x 4.0 | | | | | | |
| | | 17 | 1 STP x 1.0 | .63 | (16.0) | 158.0 | (232) | 242.0 | (356) |

# PUR Servo Cable

## Chainflex® CF27

### PUR Energy Chain® cable, shielded, oil and coolant-resistant, cut-resistant, flame-retardant, hydrolysis-resistant, microbe-resistant, PVC-free/halogen-free

Price Index

| Part No. | Power AWG | Signal AWG | No. of Conductors and Rated Cross-Section in mm² | Outer Diameter (approx.) in. | (mm) | Copper Index lbs/mft | (kg/km) | Weight lbs/mft | (kg/km) |
|---|---|---|---|---|---|---|---|---|---|
| **1 Control Pair Shielded** | | | | | | | | | |
| CF27-40-15-02-01-D | 12 | | 4 C x 4.0 | | | | | | |
| | | 16 | 1 STP x 1.5 | .63 | (16.0) | 164.0 | (241) | 255.1 | (375) |
| CF27-60-10-02-01-D | 10 | | 4 C x 6.0 | | | | | | |
| | | 17 | 1 STP x 1.0 | .69 | (17.5) | 223.0 | (327) | 327.0 | (481) |
| CF27-60-15-02-01-D | 10 | | 4 C x 6.0 | | | | | | |
| | | 16 | 1 STP x 1.5 | .69 | (17.5) | 242.9 | (357) | 395.0 | (580) |
| CF27-100-10-02-01-D | 8 | | 4 C x 10.0 | | | | | | |
| | | 17 | 1 STP x 1.0 | .81 | (20.5) | 361.0 | (530) | 503.0 | (740) |
| CF27-100-15-02-01-D | 8 | | 4 C x 10.0 | | | | | | |
| | | 16 | 1 STP x 1.5 | .85 | (21.5) | 367.4 | (540) | 612.2 | (900) |
| CF27-160-10-02-01-D | 6 | | 4 C x 16.0 | | | | | | |
| | | 17 | 1 STP x 1.0 | .91 | (23.0) | 476.0 | (700) | 696.0 | (1023) |
| CF27-160-15-02-01-D | 4 | | 4 C x 16.0 | | | | | | |
| | | 16 | 1 STP x 1.5 | .97 | (24.5) | 487.1 | (716) | 782.3 | (1150) |
| CF27-250-15-02-01-D | 4 | | 4 C x 25.0 | | | | | | |
| | | 16 | 1 STP x 1.5 | 1.12 | (28.5) | 718.0 | (1056) | 976.0 | (1435) |
| CF27-350-15-02-01-D | 2 | | 4 C x 35.0 | | | | | | |
| | | 16 | 1 STP x 1.5 | 1.28 | (32.5) | 1057.0 | (1553) | 1414.0 | (2079) |
| **2 Control Pairs Shielded** | | | | | | | | | |
| CF27-07-03-02-02-D | 18 | | 4 C x 0.75 | | | | | | |
| | | 22 | 2 STP x 0.34 | .49 | (12.5) | 69.4 | (102) | 132.7 | (195) |
| CF27-10-07-02-02-D | 17 | | 4 C x 1.0 | | | | | | |
| | | 18 | 2 STP x 0.75 | .53 | (13.5) | 97.2 | (143) | 170.7 | (251) |
| CF27-15-07-02-02-D | 16 | | 4 C x 1.5 | | | | | | |
| | | 18 | 2 STP x 0.75 | .57 | (14.5) | 119.0 | (175) | 200.6 | (295) |
| CF27-25-15-02-02-D | 14 | | 4 C x 2.5 | | | | | | |
| | | 16 | 2 STP x 1.5 | .65 | (16.5) | 180.2 | (265) | 237.3 | (349) |
| CF27-40-15-02-02-D | 12 | | 4 C x 4.0 | | | | | | |
| | | 16 | 2 STP x 1.5 | .71 | (18) | 206.0 | (303) | 275.4 | (405) |
| CF27-60-15-02-02-D | 10 | | 4 C x 6.0 | | | | | | |
| | | 16 | 2 STP x 1.5 | .77 | (19.5) | 270.0 | (397) | 437.2 | (643) |
| CF27-100-15-02-02-D | 8 | | 4 C x 1.0 | | | | | | |
| | | 16 | 2 STP x 1.5 | .92 | (23.5) | 380.8 | (560) | 680.0 | (1000) |
| CF27-160-15-02-02-D | 6 | | 4 C x 16.0 | | | | | | |
| | | 16 | 2 STP x 1.5 | 1.02 | (26) | 537.2 | (790) | 850.0 | (1250) |
| CF27-250-15-02-02-D | 4 | | 4 C x 25.0 | | | | | | |
| | | 16 | 2 STP x 1.5 | 1.18 | (30.0) | 775.2 | (1140) | 1285.2 | (1890) |
| **1 Star Quad Shielded** | | | | | | | | | |
| CF27-15-05-04-D | 16 | | 4 C x 1.5 | | | | | | |
| | | 20 | (4 x 0.5)SHLD | .57 | (14.5) | 95.6 | (142) | 210.9 | (310) |
| CF27-25-05-04-D | 14 | | 4 C x 2.5 | | | | | | |
| | | 20 | (4 x 0.5)SHLD | .59 | (15.0) | 135.4 | (199) | 221.1 | (325) |
| CF27-40-05-04-D | 12 | | 4 C x 4.0 | | | | | | |
| | | 20 | (4 x 0.5)SHLD | .67 | (17.0) | 174.2 | (256) | 326.5 | (480) |
| **Without Control Pair** | | | | | | | | | |
| CF27-15-04-D | 16 | | 4 C x 1.5 | .41 | (10.5) | 59 | (86) | 109 | (160) |
| CF27-25-04-D | 14 | | 4 C x 2.5 | .47 | (12.0) | 95 | (140) | 177 | (260) |
| CF27-500-04-D | 1 | | 4 C x 50.0 | 1.48 | (37.5) | 1517 | (2230) | 2177 | (3200) |

**NOTE:** The mentioned external diameters are maximum values.