

## UNITRONIC® BUS CC FD P FRNC

CC-Link bus cable for high flexible applications - UL-verified

CC-Link to provide efficient, integrated factory and process automation. UV-resistant, flame retardant. AWM style 300V. Temperature range from -40°C bis +80°C

### Info

Lapp Kabel is a regular member of the user organisation CC-Link Partner Association (CLPA), Japan.



Supplementary automation components from Lapp



Mechanical and plant engineering



Halogen-free



Oil-resistant



Power chain

### Benefits

The CC-Link® system was developed by Mitsubishi Electric Automation, Japan.

### Application range

CC-Link® (Control & Communication Link) = field bus network, for both control as well as information data to provide efficient, integrated factory and process automation.

For highly flexible applications (power chains, moving machine parts)

### Product features

Transmission rate in relation to the distance  
156 kbit/s 1.200 m

Last Update (11.12.2022)

©2022 Lapp Group - Technical changes reserved

Product Management [www.lappkabel.de](http://www.lappkabel.de)

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02\_03.16

## UNITRONIC® BUS CC FD P FRNC

625 kbit/s 900 m  
2,5 Mbit/s 400 m  
5,0 Mbit/s 160 m  
10 Mbit/s 100 m  
Halogen-free  
Flame-retardant according IEC 60332-1-2

### Norm references / Approvals

AWM 20233 80 °C 300V

### Product Make-up

Bare stranded copper wires  
Core insulation: PE  
Inner sheath: FRNC  
Overall screening of braided tinned-copper strands  
Outer sheath: PUR, red (RAL 3000)

### Technical Data

Classification ETIM 5:	ETIM 5.0 Class-ID: EC000830 ETIM 5.0 Class-Description: Data cable
Classification ETIM 6:	ETIM 6.0 Class-ID: EC000830 ETIM 6.0 Class-Description: Data cable
Certifications:	UL AWM Style 20233
Peak operating voltage:	300 V
Conductor resistance:	11 ohm/1,000 ft. (305 m) at 20 °C
Minimum bending radius:	Fixed installation: 4 x outer diameter Moved: 10 x outer diameter
Test voltage:	2000 V
Characteristic impedance:	110 ohm at 1 MHz
Temperature range:	-40 °C to +80 °C

### Note

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)

CC-Link® is a registered trademark of CC-Link Partner Association, Japan (CLPA)

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

Prices are net prices without VAT and surcharges. Sale to business customers only.

**UNITRONIC® BUS CC FD P FRNC**

Article number	Article designation	Number of cores and AWG size	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
2170370	UNITRONIC® BUS CC FD P FRNC	3 x 1 x AWG20	8.5	39.9	84

Last Update (11.12.2022)

©2022 Lapp Group - Technical changes reserved

Product Management [www.lappkabel.de](http://www.lappkabel.de)

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02\_03\_16