# UNITRONIC® BUS CC FD P FRNC

CC-Link bus cable for high fleible 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

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Product Management www.lappkabel.de
You can find the current technical data in the corresponding data sheet.
PN 0456 / 02_03.16

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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<br>ETIM 5.0 Class-Description: Data cable |
| Classification ETIM 6: | ETIM 6.0 Class-ID: EC000830<br>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<br>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
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.


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| 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 |


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