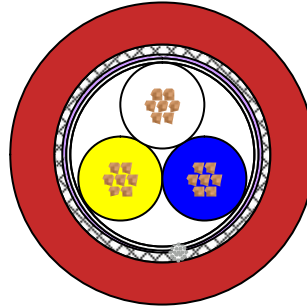


# CC-Link



## Design

### Wire:

Stranded bare copper wire 7 X 0.32 (AWG 20/7)  
Insulation of foamed Polyethylene (PE) with skin

∅ 0.96 mm (0.038 in)  
∅ 2.2 mm (0.087 in)

### Core:

3 wires twisted  
Sequence of colors: WH-BU-YE  
Plastic tape, overlapped  
Alulaminat foil overlapped  
Stranded tinned copper drain wire 0.38 mm<sup>2</sup> (AWG 22/19)  
Shield braiding of tinned copper wires 0.13 mm (AWG 36) dia  
Coverage about 80%

∅ 5.5 mm (0.217 in)

### Jacket:

Polyvinylchloride (PVC) RD  
Wall thickness about 1.1 mm

∅ (7.7 ±0.3) mm (0,303 ±0,012 in)

Printing: LEONI L CC-Link Ver.1.10 10Mbps 3x20AWG SHIELDED (UL) E119100 CM 75°C or PLTC  
Sun Res "year/week" "sequential length in metres"

## Electrical data at 20°C

Conductor resistance	≤ 37.8 Ohm/km
Insulation resistance	≥ 10 GOhm*km
Capacitance (1 kHz)	≤ 60 nF/km (18.3 pF/ft)
Characteristic impedance (1 MHz)	(110 ±15) Ohm
Characteristic impedance (5 MHz)	(110 ±6) Ohm
Attenuation (1 MHz)	≤ 16 dB/km (0.49 dB/100 ft)
Attenuation (5 MHz)	≤ 35 dB/km (1.07 dB/100ft)
Operating voltage (peak)	≤ 300 V
Test voltage (wire/wire/screen rms 50Hz 1min)	= 2000 V

**LEONI Special Cables GmbH**

Technisches Datenblatt – Technical Data Sheet – Technisches Datenblatt – Technical Data Sheet – Technisches Datenblatt – Technical Data Sheet

**Mechanical and thermal characteristics**

Conductor material acc. to DIN EN 13602 Cu-ETP-A...

Screen material acc. to DIN EN 13602 Cu-ETP-A...-B

Insulating material acc. to DIN EN 50290-2-23 (VDE 0819), table 2/A (HD 624.3)

Jacket material acc. to DIN EN 50290-2-22 (VDE 0819), compoundtype TM51 (HD 624.2)

UL-File E119100 Vol.1 Sec.19 CM

UL-File E116441 Vol.1 Sec.11 PLTC

**Other characteristics:**

Permissible temperature range : -40 °C (-40 °F) up to 70 °C (158 °F)

Min. bending radius allowed : repeated 7,5X  $\varnothing$ , single 5X  $\varnothing$ 

PVC weight with Phthalate : 32 Kg/km

PVC weight without Phthalate : 0.0 Kg/km

Weight about : 77 Kg/km (51,6 lb/1000ft)

**Designation of order:**

L45467-Y19-C15

204251

02YS(ST)CY 3X1X0.96/2.2-110 LI RT

2000 m (6562 ft) on non-returnable reel