



## Type

### Cable structure

Inner conductor diameter 1:  
Inner conductor diameter 2:  
Core insulation 1:  
Core insulation 2:  
Core colours 1:  
Core colours 2:  
Stranding element 1:  
Shielding 1:  
Shielding 2:  
Total shielding:  
Outer sheath material:  
Cable external diameter:  
Outer sheath colour:

## Mobile use

### 2x2x0,64 mm (stranded)+ 4x1,5qmm

Copper, tinned (AWG 22/7)  
Copper, bare (AWG 16/84)  
Foam-skin-PE  
Foam-skin-PE  
wh, ye, bu, og  
Black  
Double core  
Polyester foil over stranded bundle  
Polyester foil, aluminium-lined  
Polyester foil  
FRNC  
10,3 mm ± 0,3 mm  
Green similar to RAL 6018

## Electrical data

Characteristic impedance: 100 Ohm ± 15 ohm at 1 to 100 MHz  
Conductor resistance: 60,0 Ohm/km max.  
Insulation resistance: 0,50 GOhm x km min.  
Mutual capacitance: 52,0 nF/km nom.  
Test voltage: 2,0 kV

## Typical values

Frequency (MHz)	10	16	62,5	100
Attenuation (dB/100m)	6,3	8,0	16,5	21,3
Next (db)	50,0	47,0	38,0	35,0
ACR (db)	43,7	39,0	21,5	13,7

## Technical data

Weight: approx. 153,0 kg/km  
Min. bending radius for laying: 103,0 mm  
Operating temperature range min.: -40 °C  
Operating temperature range max.: +70 °C  
Caloric load, approx value: 1,50 MJ/m  
Copper value: 94,0 kg/km

## Norms

Applicable standards: PROFinet Draft

## Application

This copper data cable, designed especially for heavy-duty industrial applications is very well suited for Ethernet applications. It ensures superior transmission properties and can be used even under most severe conditions. The line specified here corresponds the PROFinet type, i.e. it is designed for flexible applications with integrated energoe cores.

## Part no.

**801651**, PROFinet type B (SK)