

# BUS Cables

## HMCB500S Drag Chain



Drag Chain



### 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:  
Separator:  
Shielding 1:  
Total shielding:  
Outer sheath material:  
Cable external diameter:  
Outer sheath colour:

### Drag chain applications

#### 2x2x0,22 + 1x2x0,38

Copper, bare (AWG 24/7)  
Copper, tinned (AWG 22/19)  
Foam-skin-PE  
PE  
gn, ye, pk, bu  
rd, bk  
Double core  
-  
-  
AL-Foil + braid  
PVC  
app. 6,95 mm ± 0,15 mm  
Green similar to RAL 6018

### Electrical data

Characteristic impedance:  
Conductor resistance, max.:  
Insulation resistance, min.:  
Loop resistance:  
Mutual capacitance:  
Test voltage:

100 Ohm ± 15 Ohm at 1 to 100 MHz  
90 Ohm/km  
1 GOhm x km  
180 Ohm/km max.  
50 nF/km nom.  
0,5 kV

### Typical values

|             |           |      |      |      |      |
|-------------|-----------|------|------|------|------|
| Frequency   | (MHz)     | 10   | 16   | 62,5 | 100  |
| Attenuation | (db/100m) | 10,0 | 12,0 | 23,0 | 30,0 |
| Next        | (db)      | 47,0 | 44,0 | 35,0 | 32,0 |
| ACR         | (db)      | 37,0 | 36,0 | 12,0 | 2,0  |

### Technical data

Weight: app. 66 kg/km  
bending radius, repeated: 125 mm  
Operating temperature range min.: 0°C  
Operating temperature range max.: +60°C  
Caloric load, approx. value: 0,00 MJ/m  
Copper weight: 38,00 kg/km

### Norms

Applicable standards: Flame-retardant acc. to IEC 60332-1-2  
UL Style: AWM Style 2502 AWM I/II A/B 80°C 30V FT1  
CSA standard: CSA FT1

### Application

HELUKABEL® HMCB500S is designed for occasional moving in cable carriers and ranges up to 100m without repeater. This cable is used in Siemens Systems.

Typical plugs are RJ45 Industrial IP20 Siemens or Y-Con RJ45 Yamaichi or round M-Connectors from Molex.

### Part no.

**803672**, HMCB500S

Dimensions and specifications may be changed without prior notice.

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