# LAN Cable

**Category 5e**

**HELUKAT® 155** CPR Eca

U/UTP





## Cable structure

### U/UTP 4x2xAWG 24/1 PVC
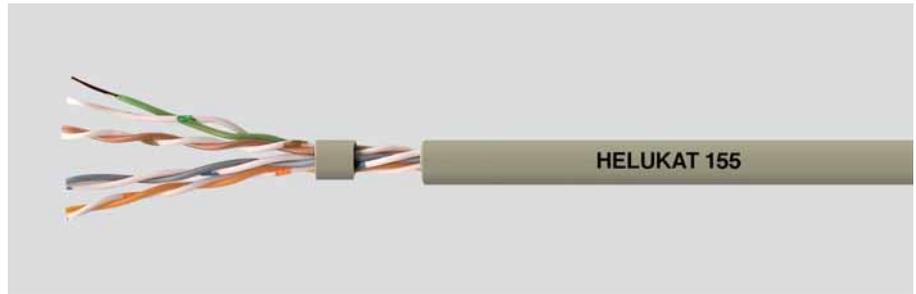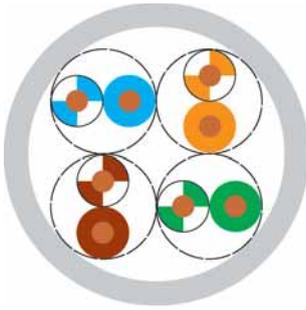
| | |
|---|---|
| Inner conductor Ø: | 0,49 mm |
| Conductor material: | Copper, bare |
| Core insulation: | PE |
| Core colours: | whbu/bu, whog/og, whgn/gn, whbn/bn |
| Separator: | - |
| Screen over stranding element: | - |
| Screen 1 over stranding: | - |
| Screen 2 over stranding: | - |
| Outer sheath material: | PVC |
| Outer diameter: | app. 4,9 mm |
| Outer sheath colour: | Grey |



## Electrical data

| | |
|---|---|
| Characteristic impedance: | 100 Ohm ± 15 Ohm at 1 to 100 MHz |
| | 100 Ohm ± 20 Ohm at 101 to 155 MHz |
| Loop resistance: | 190 Ohm/km max. |
| Mutual capacitance: | 50 nF/km nom. |
| Rel. propagation velocity: | 66 % |
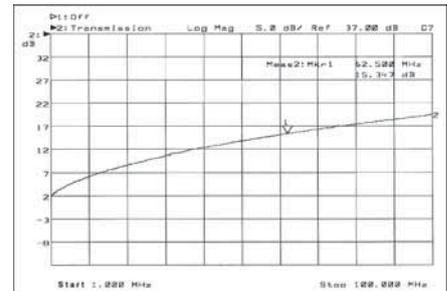
## Typical values

| Frequency | (MHz) | 10 | 16 | 62,5 | 100 | 155 |
|---|---|---|---|---|---|---|
| Attenuation | (dB/100m) | 6,3 | 8,0 | 16,5 | 21,3 | 26,8 |
| Next | (db) | 50,3 | 47,3 | 38,4 | 35,3 | 33,0 |
| ACR | (db) | 44,0 | 39,3 | 21,9 | 14,0 | 6,2 |

## Technical data

| | |
|---|---|
| Weight: | app. 26 kg/km |
| bending radius, repeated: | 40 mm |
| Operating temperature range min.: | -20°C |
| Operating temperature range max.: | +60°C |
| Caloric load, approx. value: | 0,40 MJ/m |
| Copper weight: | 17,00 kg/km |
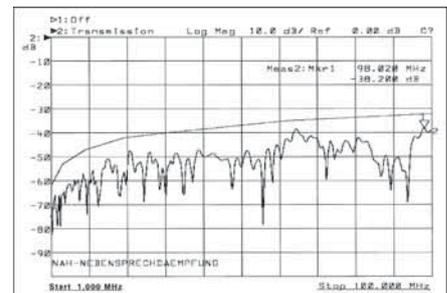


## Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 5e

## Application

HELUKAT®155 data cables are used in the tertiary, but also in the secondary level of a network. They are characterized by large performance reserves and outstanding performance. They can be used to implement services such as Fast Ethernet, Ethernet, ATM155, FDDI, token ring 4/16 Mbit/s, or ISDN absolutely trouble-free. Likewise, the mechanical characteristics are perfectly suited for the application in tight cable channels and platforms due to their optimized construction.

## Part no.

**80053,** U/UTP 4x2xAWG24/1 PVC (UTP)

Dimensions and specifications may be changed without prior notice.

**HELUKABEL®**