

## Cable structure

Inner conductor diameter:  
 Conductor material:  
 Core insulation:  
 Core colours:  
 Shielding 1  
 Screen over stranding element:  
 Screen 1 over stranding:  
 Screen 2 over stranding:  
 Outer sheath material:  
 Outer Ø  
 Outer sheath colour:

## UTP 4x2xAWG 24/1 PVC

0,51 mm  
 Copper, bare  
 PE  
 whbu/bu, whog/og, whgn/gn, whbn/bn  
 -  
 -  
 -  
 -  
 PVC  
 approx. 4,9 mm  
 Grey

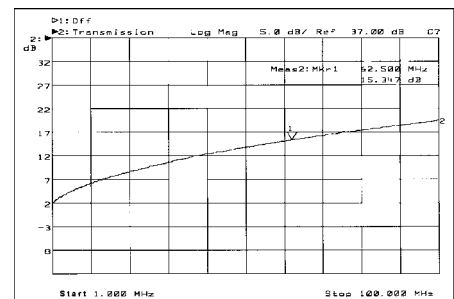
## Electrical data

Characteristic impedance:  
 Loop resistance:  
 Mutual capacitance:  
 Rel. propagation velocity:

100 Ohm ± 15 ohm at 1 to 100 MHz  
 190 Ohm/km max.  
 50,0 nF/km nom.  
 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

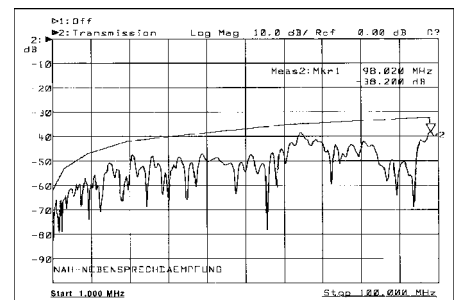


## Technical data

Weight: 26,0 kg/km  
 Min. bending radius for laying: 40 mm  
 Operating temperature range min.: -20°C  
 Operating temperature range max.: +60°C  
 Caloric load, approx. value: 0,4 MJ/m  
 Copper weight: 17,80 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**, UTP 4x2xAWG24/1 PVC

Dimensions and specifications may be changed without prior notice.