



## Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)  
 IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;  
 IEEE 802.5: 16MB; ISDN; TPDDI; ATM

## Standards

Cat.6 acc. to DIN EN 50173-1; EN 50288-6-1; ISO/IEC 11801; IEC 61156-5; EIA/TIA 568-C.2

## Flame resistance

IEC 60332-1

## Construction

Conductor	bare copper wire Ø 0,55 mm (AWG23/1)
Insulation	Polyethylene, Ø 0,99 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs and a non metallic cross separator (spline)
Outer jacket	PVC
Cable marking: blue, yellow	TELEGÄRTNER U/UTP Cat.6+ 4x2xAWG23 30V 60°C 000001M „sequential length in meters“

## Mechanical properties

Bending radius	≥ 50 mm installation ≥ 25 mm installed
Temperature range	during operation: -20 °C up to +60 °C during installation: -10 °C up to +60 °C

## Electrical properties

at 20°C ± 5°C

Loop resistance	≤ 8,9 Ω/100m
Resistance unbalance	≤ 2%
Insulation resistance (500V)	≥ 5000 MΩxkm
Mutual capacitance(at 1 kHz)	nom. 5,1 nF/100m
Mutual capacitance (at 1 kHz) (pair/ground)	max. 160 pF/100m
Characteristic impedance	(1-100 MHz) (100 ± 15) Ω (100-250 MHz) (100 ± 22) Ω

# Installation Cable U/UTP AWG23/1 Cat.6+



Nominal velocity of propagation	ca. 67%
Propagation delay	≤ 545,4 ns/100m
Delay skew	≤ 45 ns/100m
Test voltage (DC, 1min) (core/core)	1 kV/1min

## Transmission properties

at 20°C ± 5°C

have been verified as being compliant with the standards.

Order No.	Standard designation	Scope of delivery	Outer diameter mm	Weight kg/km	Fire load		Tensile force N
					MJ/km	kWh/m	
L02002A0057 grey RAL 7035	J-2YY 4x2x0,55 PVC	1000ft (305m) easy reel box	6,0	39,17	504	0,14	100
L02002B0057 grey RAL 7000	J-2YY 4x2x0,55 PVC	1000ft (305m) easy reel box	6,0	39,17	504	0,14	100
L02002C0057 blue RAL 5005	J-2YY 4x2x0,55 PVC	1000ft (305m) easy reel box	6,0	39,17	504	0,14	100