

## Application

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


## Standards

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

## Flame resistance

IEC 60332-1; UL 1581 FT2 (horizontal flame test)

## Construction

Conductor	bare copper wire Ø 0,51 mm (AWG24/1)
Insulation	Polyethylene, Ø 1,02 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs
Buffer layer	Mylar tape
Drain wire	Copper wire, tinned Ø 0,51 (AWG24/1)
Overall screen	Aluminium-laminated plastic foil, with foil facing inward
Outer jacket	PVC, grey RAL 7035
Cable marking: blue	TELEGÄRTNER F/UTP Cat.5e 4x2xAWG24  AWM STYLE 2835 30V 60°C IEC 60332-1 E81280 „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	≤ 9,38 Ω/100m
Resistance unbalance	≤ 2%
Insulation resistance (500V)	≥ 5000 MΩxkm
Mutual capacitance (at 1 kHz)	nom. 5,1 nF/100m
Capacitance unbalance (at 1 kHz) (pair/ground)	≤ 160 pF/100m
Characteristic impedance (1-100 MHz)	(100 ± 15) Ω

## Installation Cable F/UTP AWG24/1 Cat.5e

Nominal velocity of propagation	ca. 67%	
Propagation delay	≤ 545,4 ns/100m	
Delay skew	≤ 45 ns/100m	
Test voltage (DC, 1min) (core/core and core/screen)	1kV/1min	
Transfer impedance	MHz	mΩ/m
	1	50
	10	100
	30	200
	100	1000

### 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	
L02002A0038	J-2Y(St)Y 4x2x0,51	1000ft (305m) easy reel box	6,2	41,29	479	0,133	100
L02002A0138	J-2Y(St)Y 4x2x0,51	500m drum	6,2	41,29	479	0,133	100