



Application

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

Standards

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

Flame resistance

IEC 60332-1; IEC 60754-2; IEC 61034

Construction

Conductor	bare copper wire Ø 0,55 mm
Insulation	Polyethylene, Ø 1,4 mm
Twisting	2 cores to the pair
Pair screen	Aluminium-laminated plastic foil
Cable lay up	4 pairs (PiMF)
Drain wire	Copper wire, tinned Ø 0,4 mm (AWG26/1)
Outer jacket	LSZH, blue RAL 5012
Cable marking: black	TELEGÄRTNER AMJ 500 U/FTP 4x2x0,55 LSZH Cat.6A IEC 60332-1 „production batch no.“ „sequential length in meters“ TELEGÄRTNER AMJ 500 U/FTP 2x(4x2x0,55) LSZH Cat.6A IEC 60332-1 „production batch no.“ „sequential length in meters“

Mechanical properties

Bending radius	≥ 60 mm installation ≥ 30 mm installed
Temperature range	during operation: -20 °C up to +60 °C during installation: 0 °C up to +50 °C

Electrical properties

at 20°C ± 5°C

Loop resistance	≤ 145 Ω/km
Resistance unbalance	≤ 2%
Insulation resistance (500V)	≥ 5000 MΩxkm
Mutual capacitance	nom. 45 pF/m
Capacitance unbalance (pair/ground)	max. 800 pF/km
Characteristic impedance	(1-100 MHz) (100 ± 5) Ω (100-250 MHz) (100 ± 10) Ω (250-500 MHz) (100 ± 15) Ω

Installation Cable AMJ 500 U/FTP Cat.6A

Nominal velocity of propagation	ca. 75%	
Propagation delay	≤ 500 ns/100m	
Delay skew	≤ 20 ns/100m	
Test voltage (DC, 1min) (core/core and core/screen)	1000 V	
Transfer impedance (mΩ/m)	at: 1 MHz	10 MHz
	≤ 50	≤ 100
Coupling attenuation	≥ 55 dB	

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	
L02002A0087	J-2YH 4x2x0,55 PiMF LSZH	500 m drum	7,3	45	732	0,203	100
L02002A0088	J-2YH 2x (4x2x0,55) PiMF LSZH	500 m drum	7,3x15,5	91	1464	0,406	200
L02002A0089	J-2YH 4x2x0,55 PiMF LSZH	1000 m drum	7,3	45	732	0,203	100