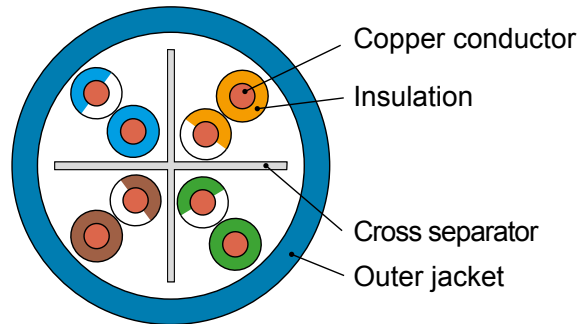


Installation Cable U/UTP AWG24/1 Cat.6



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 50288-6-1; ISO/IEC 11801; IEC 61156-5; EIA/TIA 568-C.2

Flame resistance

IEC 60332-1

Construction

Conductor	Copper wire, bare \varnothing 0,526 mm(AWG24/1)
Insulation	Polyethylene, \varnothing 0,95 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs and a non metallic cross separator (spline)
Outer jacket	LSZH blue RAL 5012
Cable marking: blue	TELEGÄRTNER U/UTP Cat.6 4x2xAWG24/1 LSZH 30V 60°C IEC 60332-1 000001M „sequential length in meters“

Mechanical properties

Bending radius	\geq 40 mm installation \geq 20 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 \pm 5°C

Loop resistance	\leq 9,38 Ω /100m
Resistance unbalance	\leq 2%
Insulation resistance (500V)	\geq 5000 M Ω xkm
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 \pm 15) Ω
(100-250 MHz)	(100 \pm 22) Ω

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Nominal velocity of propagation	ca. 66%
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
X00211C0000	J-2YH 4x2x0,526 LSZH	1000ft (305m) unreel box	5,3