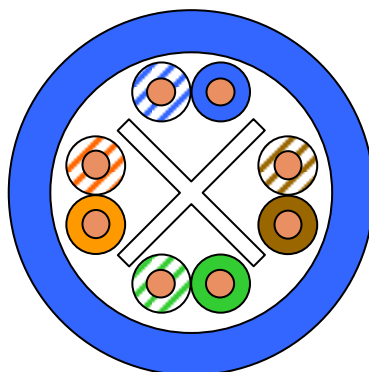


ORTRONICS CAT6 U/UTP LSZH 100Ω-4P-24AWG

U/UTP Installation cable



Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T
IEEE 802.5 16 MB; ISDN; TPDDI; ATM
PoE Power over Ethernet –IEEE 802.3af
PoE+ –IEEE 802.3at type 1 & 2

Standards

EIA/TIA-568-C.2
ISO/IEC 11801 2nd ed; IEC 61156-5
EN 50173-1, EN 50288-6-1

Fire Rating

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

Construction

Conductor	Bare copper wire: Nom. 0.54
Insulation	Polyethylene, Ø 0.95 mm nom
Twisting	2 cores to the pair
Cable lay up	4 pairs with non-metallic cross separator (spline)
Sheath	LSHF (LSOH), blue RAL 5012

Mechanical properties

Minimum bending radius	Installation	8 x D
	Installed	4 x D
Temperature range	during operation	-20°C up to + 60°C
	during installation	0°C up to + 50°C

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Electrical properties

at 20°C

DC loop resistance	≤ 176 Ω /km
Resistance unbalance	≤ 2%
Insulation resistance (500 V)	≥ 5000 MΩ *km
Capacitance at 800 Hz	nom. 48 nF/km
Capacitance unbalance (pair to ground)	≤ 1500 pF/km
Mean impedance 100 MHz	100 ± 5 Ω
Nominal velocity of propagation	approx. 67 %
Propagation delay	nom. 535 ns/100m
Delay skew	nom. 20 ns/100m
Test voltage (DC, 1 min)	1000 V
Core/Core	

Electrical data

acc. to Cat.6 (at 20°C)

Freq (MHz)	Attenuation (dB/100m)		NEXT (dB/100m)		PS-NEXT (dB/100m)		ACR (dB/100m)		PS-ACR (dB/100m)		ACRF (dB/100m)		PS-ACRF (dB/100m)		Return loss (dB/100m)
	max.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	
1	2.0	1.9	74.3	78	72.3	75	72.3	76.1	70.3	73.1	68	82	65	80	20.0
4	3.8	3.8	65.3	69	63.3	66	61.5	65.2	59.5	62.2	56	70	53	68	23.0
10	6.0	6.0	59.3	63	57.3	60	53.3	57.0	51.3	54.0	48	62	45	60	25.0
16	7.6	7.6	56.2	60	54.2	57	48.6	52.3	46.6	49.3	44	58	41	56	25.0
20	8.5	8.5	54.8	59	52.8	56	46.3	50.0	44.3	47.0	42	56	39	54	25.0
31.2	10.7	10.7	51.9	56	49.9	53	41.2	45.0	39.2	42.0	38	52	35	50	23.6
62.5	15.4	15.1	47.4	51	45.4	48	32.0	36.0	30.0	33.0	32	46	29	44	21.5
100	19.8	19.1	44.3	48	42.3	45	24.5	28.9	22.5	25.9	28	42	25	40	20.1
125	22.3	21.3	42.9	47	40.9	44	20.6	25.2	18.6	22.2	26	40	23	38	19.5
155.5	25.2	23.8	41.5	45	39.5	42	16.3	21.3	14.3	18.3	24	38	21	36	18.8
175	26.9	25.3	40.7	44	38.7	41	13.8	19.1	11.8	16.1	23	37	20	35	18.4
200	29.0	27.0	39.8	44	37.8	41	10.8	16.5	8.8	13.5	22	36	19	34	18.0
250	32.8	32.0	38.3	42	36.3	39	5.5	10.0	3.5	7.0	20	34	17	32	17.3
300		36.1		41		38		4.8		1.8		32		30	
400		41.7		39		36		-2.7		-5.7		30		28	

Technical data

Part number	Product name	Outer diameter	Fire load		Weight	Copper index	Tensile force N
			MJ/km	kWh/m			
100UC6HD-EU-06	ORTRONICS CAT6 U/UTP LSZH 100 Ω 4P- 24AWG (Blue)	5.3	316	0.087	36	18.1	100

Note: The Ortronics policy of continuous improvement may cause changes in specifications without prior notice