



EC400 Cat 6 U/UTP LSZH D_{ca}

Application

10Base-T, 100Base-T, 1000Base-T, and Fieldbus systems. Applicable for Power over Ethernet (PoE) / PoE+

Cable Construction

- 23 AWG Bare Copper
- PE Insulation
- Pair Separator
- Ø 6.20 ± 0.20 mm LSZH

Technical Properties

Cable Weight	46 kg/km
Copper Weight	19.1 kg/km
Min. Bending radius during draw in	50 mm
Min. Bending radius permanently installed	25 mm
Max. Tensile Strength	90 N
Min. Crush Resistance	1000 N/10 cm
Min. Impact	10 Impacts
Installation Temperature	0°C ... +50°C
Operating Temperature	-20°C ... +70°C
Packing	305 / 500 m

Electrical Properties

Max. Conductor Resistance	< 9.5 Ω / km
Max. Resistance Unbalance	< 2%
Min. Insulation Resistance	5000 MΩ x m
Mutual Capacitance	< 60 pF / m
Capacitance Unbalance	1600 pF / km
Impedance at 100 MHz	100 ± 5 Ω
Velocity of Propagation	66 %
Delay Skew	< 45 ns / 100 m
Test Voltage	1000 V
Operating Voltage	125 V

at 20 °C

Standards

EIA/TIA-568
 ISO/IEC 11801 Class E
 IEC 61156-5, EN 50173-1
 EN 50288-6-1
 Euro Class
 D_{ca}
 Flame Retardancy
 EN 60332-1-2
 Corrosive Gases Test
 EN 50267-2-3
 Smoke Density
 EN 61034-2

Electrical Data (Nominal)

@ 20 °C

Frequency (MHz)	Attenuation (dB/100 m)	NEXT (dB)	PS - NEXT (dB)	ACR (dB/100 m)	PS-ACR (dB/100 m)	ACRF (dB/100 m)	PS-ACRF (dB/100 m)	Return Loss (dB)
1	2.0	83	80	85	82	83	80	25
4	3.6	73	70	70	67	70	67	31
10	6.0	73	70	65	62	60	57	30
100	19.5	55	52	40	37	35	32	25
200	28.5	50	47	25	22	30	27	22
250	32.0	45	42	25	22	22	19	22
300	33.0	40	37	15	12	20	17	22
400	39.0	40	37	7	4	20	17	20