



## EC250 Slim Cat 6 U/UTP LSZH C<sub>ca</sub>

### 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 5.60 ± 0.20 mm LSZH

### Technical Properties

Cable Weight	40 kg/km
Copper Weight	17.3 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  
 C<sub>ca</sub>, s1a, d2, a1  
 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