



EC250 Slim Cat 6 U/UTP

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 or PE

Standards

EIA/TIA-568
ISO/IEC 11801 Class E
IEC 61156-5, EN 50173-1
EN 50288-6-1

Technical Properties

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

	at 20 °C
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

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

Product Name	Euro Class (CPR)	Flame Retardancy	Corrosive Gases Test	Smoke Density	Cable Weight
EC250 Slim Cat 6 U/UTP LSZH C _{ca}	C _{ca}	EN 60332-1-2	EN 50267-2-3	EN 61034-2	40
EC250 Slim Cat 6 U/UTP LSZH D _{ca}	D _{ca}	EN 60332-1-2	EN 50267-2-3	EN 61034-2	38
EC250 Slim Cat 6 U/UTP LSZH E _{ca}	E _{ca}	EN 60332-1-2	EN 50267-2-3	EN 61034-2	38
EC250 Slim Cat 6 U/UTP PE F _{ca}	F _{ca}	N/A	N/A	N/A	33