



EC400 Cat 6 U/UTP DUPLEX

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 x 14.20 mm ± 0.20 LSZH

Standards

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

Technical Properties

Copper Weight	38.2 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

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

Product Name	Euro Class (CPR)	Flame Retardancy	Corrosive Gases Test	Smoke Density	Cable Weight
EC400 Cat 6 U/UTP DUPLEX LSZH D _{ca}	D _{ca}	EN 60332-1-2	EN 50267-2-3	EN 61034-2	92
EC400 Cat 6 U/UTP DUPLEX LSZH E _{ca}	E _{ca}	EN 60332-1-2	EN 50267-2-3	EN 61034-2	92