CAT 5E Cables

Data cables

UTP, S-UTP, S-FTP, STP, S-STP data transmission cables

Construction:

	Inner Conductor (mm)	Insulation	Pair Screen	Drain Wire	Overall Screen	Braid Coverage	Outer Sheath (mm)
UTP	Plain Copper Ø 0,51	Polyolefine comp.	-	-	-	-	PVC, Ø 5,50
S-UTP	Plain Copper Ø 0,51	Polyolefine comp.	-	0,51 Ø SnCu	AL-PES Tape	-	PVC, Ø 5,80
S-FTP	Plain Copper Ø 0,51	Polyolefine comp.	-	0,51 Ø SnCu	AL-PES Tape	+ %65 SnCu	PVC, Ø 6,20
STP	Plain Copper Ø 0,51	Polyolefine comp.	AL-PES Tape	0,51 Ø SnCu	AL-PES Tape	-	PVC, Ø 6,20
S-STP	Plain Copper Ø 0,51	Polyolefine comp.	AL-PES Tape	0,51 Ø SnCu	AL-PES Tape	+ %65 SnCu	PVC, Ø 6,60

*The colour overall is RAL 7032, Grey.
*AL-PES Tape: Aluminium Polyester Tape.
*SnCu: Tinned Copper.

Technical data and tests:

	UTP	S-UTP	S-FTP	STP	S-STP
Impedance (1-100 MHz)	100±15 Ω	100±15 Ω	100±15 Ω	100±15 Ω	100±15 Ω
Conductor Resistance (20° C)	Max. 94 Ω / km	Max. 94 Ω / km	Max. 94 Ω / km	Max. 94 Ω / km	Max. 94 Ω / km
Insulation Resistance	Min. 5 GΩ/km	Min. 5 GΩ/km	Min. 5 GΩ/km	Min. 5 GΩ/km	Min. 5 GΩ/km
Mutual Capacitance	Max. 56 nf / km	Max. 56 nf / km	Max. 56 nf / km	Max. 56 nf / km	Max. 56 nf / km
Operating Voltage	250 V	250 V	250 V	250 V	250 V
Test Voltage	1200 V	1200 V	1200 V	1200 V	1200 V
Temperature Range	-30° C…+70° C	-30° C…+70° C	-30° C…+70° C	-30° C…+70° C	-30° C…+70° C
Min. Bending Radius	5 x Cable Diameter	5 x Cable Diameter	5 x Cable Diameter	5 x Cable Diameter	5 x Cable Diameter
Cable Weight (kg/km)	33	37	46	40	48

Applications:

These cables are used generally inside the buildings for connections in data transmission systems , for analog and digital signals up to 155 Mbit/sec .

Frequency Mhz	Attenuation db/100m Max.	Near End Crosstalk NEXT db/100m. Min.	Struc. Return Loss SRL db Min.
1	2,1	62	23,0
4	4,3	53	23,0
10	6,6	47	23,0
16	8,2	44	23,0
20	8,5	53	25
31	10,8	50	23,6
62	15,5	45	21,5
100	19,9	42	20,1
155	23,1	41	19

Core Identification Colour		
Pair Number	a-Wire	b-Wire
1	BLUE	WHITE - BLUE
2	ORANGE	WHITE - ORANGE
3	GREEN	WHITE - GREEN
4	BROWN	WHITE - BROWN

HALLEY CABLES, Str. Siderurgistilor, nr. 9, 800364, Galati, Romania
Tel. +40 236 319 000 Fax. +40 236 319 085

The above values correspond to the manufacturer's specifications and are not guaranteed.