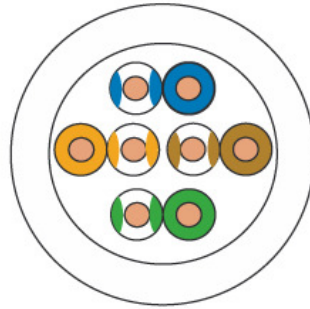


# BroadCat CAT 5E U/UTP

## Unscreened Twisted Pair 125MHz



### Application

Generic cabling systems. White colour sheath without print legend for open installations.

### Standards

EN 50173-1; ISO/IEC 11801; EN 50288-3-1; IEC61156-5; EIA/TIA 568-B.2

### Fire rating

PVC : IEC 60332-1

### Construction

Conductor	Stranded copper wire, tinned 0.50 mm
Insulation	PE, Ø 0,90 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs
Lay up diameter	Ø 4,0 mm
Sheath	Flame retardant PVC

### Mechanical Properties

Bending radius	Installation	8 x D
	Installed	4 x D
Temperature range	During operation	-20°C to + 60°C
	During installation	0°C to + 50°C
Fire load	4 pair PVC	314 MJ/km
Maximum tensile load, installation	During installation	100N
	Installed	-

## BroadCat CAT 5E U/UTP

### Electrical Properties

at 20°C

DC loop resistance		≤ 170 Ω/km
Resistance unbalance		≤ 2%
Insulation resistance	(500 V)	≥ 5000 MΩxkm
Capacitance	at 800 Hz	Nom. 50 nF/km
Capacitance unbalance	(pair to ground)	≤ 300 pF/km
Mean Characteristic impedance	@ 100 MHz)	100 ± 5 Ω
Nominal velocity of propagation		0,68 c
Propagation delay		≤ 500 ns/100 m
Delay skew		≤ 20 ns/100 m

### Nominal Transmission characteristics

at 20°C

F (MHZ)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB/100m)	Returnloss (dB)	PS-NEXT (dB)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)
1	1,8	77	75	-	74	72	75	72
4	3,6	70	66	27	67	63	62	59
10	6,0	65	59	30	62	56	56	53
16	7,6	64	56	30	61	53	52	49
20	8,6	62	53	30	59	50	50	47
31.25	11,0	59	48	30	56	45	47	44
62.50	16,0	55	39	30	52	36	43	40
100	20,7	48	27	25	45	24	42	39
125	23,8	48	24	25	45	21	41	38

### Technical Data

Description	Variant	Colour	Outher diameter (D) mm	Delivery form	Weigth kg/km	Material code		El. No	DCN No.
Cat 5E U/UTP 4x2/0,50mm	PVC	White, RAL9001	5,2	Box 305m	31	1000855	-00305BR	1080908	799158
Cat 5E U/UTP 4x2/0,50mm	PVC	White, RAL9001	5,2	Drum 305m	31	1000855	-00305DP	1080003	799350
Cat 5E U/UTP 4x2/0,50mm	PVC	White, RAL9001	5,2	Drum 100	31	1000855	-00100DS	1080907	799152
Cat 5E U/UTP 4x2/0,50mm	PVC	White, RAL9001	5,2	Drum 500m	31	1000855	-00500DP	1089100	799489