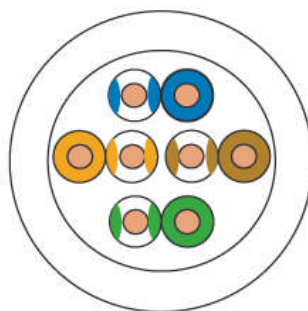


BroadCat CAT 5E U/UTP

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		$\leq 170 \Omega/\text{km}$
Resistance unbalance		$\leq 2\%$
Insulation resistance	(500 V)	$\geq 5000 \text{ M}\Omega \times \text{km}$
Capacitance	at 800 Hz	Nom. 50 nF/km
Capacitance unbalance	(pair to ground)	$\leq 300 \text{ pF/km}$
Mean Characteristic impedance	@ 100 MHz)	$100 \pm 5 \Omega$
Nominal velocity of propagation		0,68 c
Propagation delay		$\leq 500 \text{ ns/100 m}$
Delay skew		$\leq 20 \text{ ns/100 m}$

Nominal Transmission characteristics

at 20°C

F (MHZ)	Attenuation	NEXT	ACR	Returnloss	PS- NEXT	PS-ACR	ELFEXT	PS-ELFEXT
	(dB/100m)	(dB)	(dB/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)	(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

Part number	Description	Colour	Outer diameter (D) mm	Weight kg/km
1000855	BroadCat U/UTP PVC 4x2x0.5mm Cat.5e	White, RAL9001	5,2	31

[PRODUCT CODE TABLE]

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