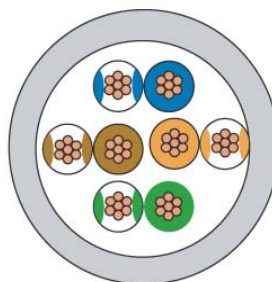


CAT 5E U/UTP Patch

Unscreened Twisted Pair 125MHz



Application

Generic cabling systems. Patch and work area cable

Standards

EN 50173-1; ISO/IEC 11801; EN 50288-3-2; IEC61156-6;

Fire rating

PVC : IEC 60332-1

LSOH : IEC 60754-2; IEC 61034, IEC 60332-1

Construction

Conductor	Stranded copper wire Ø 0.14 mm ²
Insulation	PE, Ø 0,8 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs
Lay up diameter	Ø 3,6 mm
Sheath	Flame retardant PVC Flame retardant and halogen free LSOH

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	303 MJ/km
	4 pair LSOH	552 MJ/km
Maximum tensile load, installation	During installation	100N
	Installed	-

CAT 5E U/UTP Patch

Electrical Properties

at 20°C

DC loop resistance		≤ 250 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		0,7 c
Propagation delay		≤ 550 ns/100 m
Delay skew		≤ 10 ns/100 m

Nominal Transmission characteristics

at 20°C

F (MHZ)	Dämpfung, nom.	NEXT	ACR	Returnloss	PS-NEXT	PS-ACR	ELFEXT	PS-ELFEXT
	(Db/100m)	(dB)	(dB/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)	(dB/100m)
1	3,0	80	77,0		77	74,0	75	72
4	5,9	71	65,1	26	68	62,1	70	67
10	9,4	65	55,6	28	62	52,6	58	55
16	11,8	62	50,2	28	59	47,2	54	51
20	13,5	60	46,5	28	57	43,5	53	50
31,25	17	55	38,0	28	52	35,0	50	47
62,5	24,7	51	26,3	28	48	23,3	45	42
100	31,8	48	16,2	23	45	13,2	40	37
125	36,1	44	7,9	23	41	4,9	37	34
155	40,9	40	-0,9	23	37	-3,9	30	27
175	43,8	35	-8,8	22	32	-11,8	20	17
200	47,2	30	-17,2	21	27	-20,2	15	12

Technical Data

Description	Variant	Colour	Outer diameter (D) mm	Delivery form	Weight kg/km	DCD No.	EI. No	DCN No.
Cat 5E U/UTP patch 4x2/0.14 mm ²	PVC	Grey, RAL7035	5,2	Drum 500m	29	DCD10707-00500DP	1089227	791551
Cat 5E U/UTP patch 4x2/0.14 mm ²	PVC	Red, RAL3018	5,2	Drum 500m	29	DCD10708-00500DP	1080913	791554
Cat 5E U/UTP patch 4x2/0.14 mm ²	PVC	Green, RAL6018	5,2	Drum 500m	29	DCD10709-00500DP	1080914	791555
Cat 5E U/UTP patch 4x2/0.14 mm ²	PVC	Yellow, RAL1018	5,2	Drum 500m	29	DCD10710-00500DP	1080915	791556
Cat 5E U/UTP patch 4x2/0.14 mm ²	PVC	Blue, RAL5012	5,2	Drum 500m	29	DCD10711-00500DP	1080916	791557
Cat 5E U/UTP patch 4x2/0.14 mm ²	LSOH	Grey, RAL7035	5,2	Drum 500m	26	DCD10713-00500DP	1089260	791571