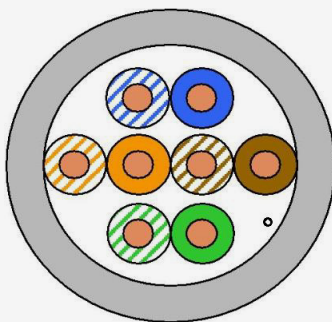


CATEGORY 5E UTP CABLE FOR INDOOR USE

PSC-CAT5E



Application

- Voice, Data, Security and Video Applications. IP Megapixel CCTV/Analog Installations
- Wire Access Points
- Gigabit Indoor Video/data installations
- Long distance PoE feeding.

Standards

- ANSI EIA/TIA 568 C.2;
- ISO/IEC 11801 2nd Edition;
- EN 50173;
- IEEE 802.3at

Construction

Conductor	Bare copper wire (AWG24/0.45±0.005mm)
Insulation	Polyethylene, Ø 0.85±0.02 mm
Insulation Color	Blue/White-Blue, Orange/white-Orange, Green/white-Green, Brown/white-Brown
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Rip Cord	Yes
Sheath	PVC Grey RAL 7046
Diameter	4.80±0.2mm

Mechanical properties

Minimum bending radius	Installation	8 x D
	Installed	4 x D
Temperature range	during operation	-20°C ~ + 60°C
	during installation	0°C ~ + 50°C
Fluke Permanent Link	Up To 90 Meters	

Electrical properties @ 20°C

Electrical properties @ 20°C	
Dielectric strength	2.5 KV dc-2 seconds
Conductor resistance	Max 11 .00 ohm/100M at 20°C
Max. Ring resistance	16.8 Ohm/100M at 20°C
Max. Mutual capacitance	560 pf/100M
Max. Capacity unbalance	330 pf/100M
Mean characteristic impedance 100 MHz	100 ± 15 Ω
Nominal velocity of propagation	approx. 67 %
Propagation delay	Nominal 535 ns/100m
Delay skew	Nominal 20 ns/100m
Test voltage (DC, 1 min)	1000 V
Core/Core Coupling attenuation	≥ 40 dB

Nominal transmission characteristics @ 20°C

Fre.	Attenuation	NEXT	PS-NEXT	ACR	PS-ACR	ACRF	PS- ACRF	Return loss
(MHz)	dB/100m)	(dB)	(dB)	dB/100m)	dB/100m)	dB/100m)	dB/100m)	(dB)
1	1,9	71	68	69,1	66,1	68	65	20
4	3,7	62	59	58,3	55,3	56	53	23
10	6	56	53	50	47,0	48	45	25
16	7,6	53	50	45,4	42,4	44	41	25
20	8,5	51	48	42,5	39,5	42	39	25
31,2	10,7	49	46	38,3	35,3	38	35	24
62,5	15,7	44	41	28,3	25,3	32	29	22
100	19,8	41	38	21,2	18,2	28	25	20

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