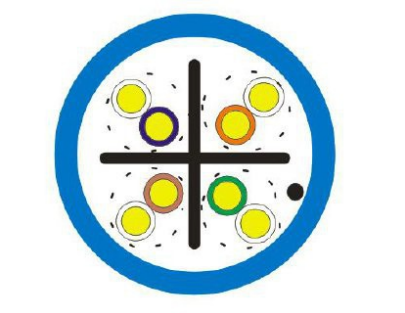
5.60±0.2mm

CATEGORY 6 UTP CABLE FOR INDOOR USE

PSC-CAT6



Application

- Voice, data, security, and video applications. Analog/megapixel IP CCTV installations.
- Wired access points
- Indoor Fast Ethernet video/data installations.
- Long-distance PoE power supply.

Standards

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

Constructon

Conductor	Bare copper wire (24 AWG)
Insulaton	Polyethylene, Ø 0.91±0.02 mm
Insulaton Color	Blue/White-Blue, Orange/white-Orange, Green/white-Green, Brown/white-Brown
TwistngCable	2 cores to the pair
lay upRip Cord	4 pairs to the core
Sheath	Yes
Diameter	PVC Blue RAL 5015
	5.60±0.2mm

Mechanical propertes

Minimum bending radius	Installaton	8 x D
	Installedduring	4 x D
Temperature range	operatonduring	-20°C ~ + 60°C
	installatonUp To	0°C ~ + 50°C
Fluke Permanent Link	90 Meters	

Electrical propert es @ 20°C

Conductor Resistance at 20°C	≤ 9.5 Ω / 100m
Resistance unbalance within a pair	≤ 5%
Dielectric Strength	
Test Voltage (cd/cd): 1.00KV DC or 0.7 KV AC for 1 min	No breakdown
Test Voltage (cd/screen): 1.00KV DC or 0.7 KV AC for 1 min	
Insulation Resistance at 20°C after 2min of electrification under a DC voltage between 100 & 500V	>1500 MΩ / 100m
Mutual capacitance	5600pF / 100m MAX
Capacitance unbalance pair to ground at 800Hz or 1 kHz	≤ 160 pF / 100m
Characteristic impedance at 100MHz	100 ± 15 Ω
Spark Test	2000 ± 250VOC

Nominal transmission characterist cs @ 20°C

No.	Frequency	Attenuation (Max)	Propagation Delay (MAX)	Propagation Delay Skew (MAX)	Return Loss (Min)	NEXT (Min)	PS NEXT (Min)	EL-FEXT (Min)	PS EL-FEXT (Min)
	MHz	dB/100m	ns/100m	ns/100m	dB/100m	dB/ 100m	dB/100m	dB/100m	dB/100m
1	4	3.78	552.00	45	23.01	66.27	63.27	55.96	52.96
2	8	5.32	546.73	45	24.52	61.75	58.75	49.94	46.94
3	10	5.95	545.38	45	25.00	60.3	57.3	48	45.00
4	16	7.55	543.00	45	25.00	57.24	54.24	43.92	40.92
5	20	8.47	542.05	45	25.00	55.78	52.78	41.98	38.98
6	25	9.51	541.20	45	24.32	54.33	51.33	40.04	37.04
7	31.25	10.67	540.44	45	23.64	52.88	49.88	38.1	35.10
8	50	13.66	539.09	45	22.21	49.82	46.82	34.02	31.02
9	62.5	15.38	538.55	45	21.54	48.36	45.36	32.08	29.08
10	100	19.80	537.60	45	20.11	45.3	42.3	28	25.00
11	125	22.36	537.22	45	19.43	43.85	40.85	26.06	23.06
12	200	28.98	536.55	45	18.00	40.78	37.78	21.98	18.98
13	250	32.85	536.28	45	17.32	39.33	36.33	20.04	17.04

Remarks: ⋆ are the reference values.